

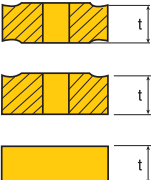
**12 04 08 ( R ) MP**

**5 6 7 8 9**

## 5 Lunghezza tagliente

| I.C(mm) | C                                                                                 | D                                                                                 | E                                                                                 | R                                                                                 | S                                                                                 | T                                                                                 | V                                                                                 | W                                                                                  | K                                                                                   | H                                                                                   |
|---------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|         |  |  |  |  |  |  |  |  |  |  |
| 3.97    | 03                                                                                | 04                                                                                |                                                                                   |                                                                                   | 03                                                                                | 06                                                                                |                                                                                   | 02                                                                                 |                                                                                     |                                                                                     |
| 4.76    | 04                                                                                | 05                                                                                |                                                                                   |                                                                                   | 04                                                                                | 08                                                                                | 08                                                                                |                                                                                    |                                                                                     |                                                                                     |
| 5.56    | 05                                                                                | 06                                                                                |                                                                                   |                                                                                   | 05                                                                                | 09                                                                                | 09                                                                                | 03                                                                                 |                                                                                     |                                                                                     |
| 6.35    | 06                                                                                | 07                                                                                |                                                                                   |                                                                                   | 06                                                                                | 11                                                                                | 11                                                                                | 04                                                                                 |                                                                                     |                                                                                     |
| 7.94    | 08                                                                                | 09                                                                                |                                                                                   |                                                                                   | 07                                                                                | 13                                                                                | 13                                                                                | 05                                                                                 |                                                                                     |                                                                                     |
| 8.0     |                                                                                   |                                                                                   |                                                                                   | 08                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 9.52    | 09                                                                                | 11                                                                                |                                                                                   | 09                                                                                | 09                                                                                | 16                                                                                | 16                                                                                | 06                                                                                 | 16                                                                                  |                                                                                     |
| 10.0    |                                                                                   |                                                                                   |                                                                                   | 10                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 12.0    |                                                                                   |                                                                                   |                                                                                   | 12                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 12.7    | 12                                                                                | 15                                                                                | 13                                                                                |                                                                                   | 12                                                                                | 22                                                                                | 22                                                                                | 08                                                                                 |                                                                                     | 05                                                                                  |
| 15.88   | 16                                                                                | 19                                                                                |                                                                                   | 15                                                                                | 15                                                                                | 27                                                                                | 27                                                                                | 10                                                                                 |                                                                                     |                                                                                     |
| 16.0    |                                                                                   |                                                                                   |                                                                                   | 16                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 19.05   | 19                                                                                | 23                                                                                |                                                                                   | 19                                                                                | 19                                                                                | 33                                                                                | 33                                                                                | 13                                                                                 |                                                                                     | 10                                                                                  |
| 20.0    |                                                                                   |                                                                                   |                                                                                   | 20                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 25.0    |                                                                                   |                                                                                   |                                                                                   | 25                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| 25.4    | 25                                                                                | 31                                                                                |                                                                                   | 25                                                                                | 25                                                                                | 44                                                                                | 44                                                                                | 17                                                                                 |                                                                                     |                                                                                     |
| 31.75   | 32                                                                                | 38                                                                                |                                                                                   |                                                                                   | 31                                                                                | 54                                                                                | 54                                                                                | 21                                                                                 |                                                                                     |                                                                                     |
| 32.0    |                                                                                   |                                                                                   |                                                                                   | 32                                                                                |                                                                                   |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |

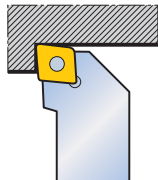
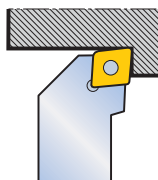
## 6 Spessore

|                                                                                     |        |
|-------------------------------------------------------------------------------------|--------|
|  |        |
| 01                                                                                  | 1.59mm |
| T1                                                                                  | 1.98mm |
| 02                                                                                  | 2.38mm |
| T2                                                                                  | 2.78mm |
| 03                                                                                  | 3.18mm |
| T3                                                                                  | 3.97mm |
| 04                                                                                  | 4.76mm |
| 05                                                                                  | 5.56mm |
| 06                                                                                  | 6.35mm |
| 07                                                                                  | 7.94mm |
| 09                                                                                  | 9.52mm |

## 7 Raggio

|                                                                                     |       |
|-------------------------------------------------------------------------------------|-------|
|  |       |
| 01                                                                                  | 0.1mm |
| 02                                                                                  | 0.2mm |
| 04                                                                                  | 0.4mm |
| 05                                                                                  | 0.5mm |
| 08                                                                                  | 0.8mm |
| 12                                                                                  | 1.2mm |
| 16                                                                                  | 1.6mm |
| 20                                                                                  | 2.0mm |
| 24                                                                                  | 2.4mm |
| 32                                                                                  | 3.2mm |

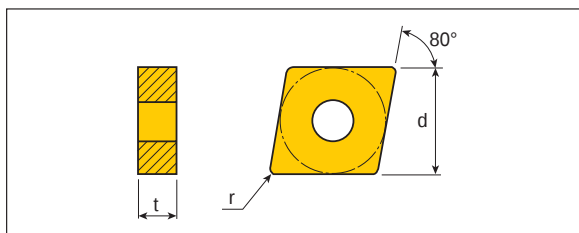
## 8 Destro / Sinistro

|                                                                                     |                    |
|-------------------------------------------------------------------------------------|--------------------|
|  | <b>R: Destro</b>   |
|  | <b>L: Sinistro</b> |

## 9 Rompitruciolo

|                                             |
|---------------------------------------------|
| Per i rompitrucioli,<br>vedere pag. A25-A30 |
|---------------------------------------------|

## Inserti Rombici Negativi a 80°



| Misura | Dimensioni (mm) |      |         |
|--------|-----------------|------|---------|
|        | d               | t    | r       |
| 09     | 9.52            | 4.76 | 0.8-1.2 |
| 12     | 12.7            | 4.76 | 0.1-1.6 |
| 16     | 15.88           | 6.35 | 1.2-1.6 |
| 19     | 19.05           | 6.35 | 0.4-1.6 |
| 25     | 25.4            | 9.52 | 2.4     |
|        |                 |      |         |
|        |                 |      |         |

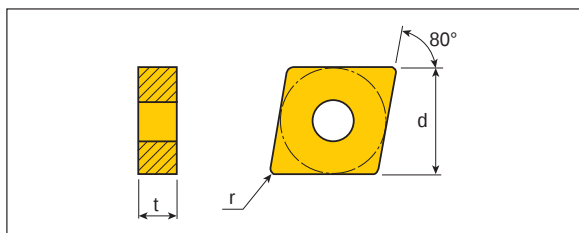
| Inserto                                                                             | Descrizione     | Avanz.<br>(mm/giro) | ap<br>(mm) | Cermet |        |        |        |        |        |        |        |        |        |        |        |        | Rivestito CVD |        |        |        | Rivestito PVD |     |     |   | Non rivestito |  |  |
|-------------------------------------------------------------------------------------|-----------------|---------------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|---------------|-----|-----|---|---------------|--|--|
|                                                                                     |                 |                     |            | PV3010 | CT3000 | TT7005 | TT7015 | TT7310 | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235 | TT5100 | TT7100 | TT5080        | TT8020 | TT9020 | TT9080 | P20           | K10 | K20 |   |               |  |  |
|    | CNGG 120401 ML  | 0.03-0.10           | 0.1-3.5    |        |        |        |        |        |        |        |        |        |        |        |        |        | ●             |        |        |        |               |     |     |   |               |  |  |
|                                                                                     | 120402 ML       | 0.05-0.15           | 0.2-3.5    |        |        |        |        |        |        |        |        |        |        |        |        |        | ●             |        |        |        |               |     |     | ● |               |  |  |
|                                                                                     | 120404 ML       | 0.10-0.30           | 0.8-3.5    |        |        |        |        |        |        |        |        |        |        |        |        |        | ●             |        |        |        |               |     |     | ● |               |  |  |
|                                                                                     | 120408 ML       | 0.12-0.35           | 1.0-3.5    |        |        |        |        |        |        |        |        |        |        |        |        |        | ●             |        |        |        |               |     |     | ● |               |  |  |
| Lav. Medie                                                                          |                 |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |   |               |  |  |
|    | CNMA 090408     | 0.15-0.60           | 1.0-4.0    |        |        | ●      | ●      |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |   |               |  |  |
|                                                                                     | 090412          | 0.15-0.70           | 1.0-4.0    |        |        | ●      | ●      |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |   |               |  |  |
|                                                                                     |                 |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |   |               |  |  |
|                                                                                     |                 |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |   |               |  |  |
| Per sgrossatura                                                                     |                 |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |   |               |  |  |
|    | CNMA 120404     | 0.15-0.50           | 1.0-5.0    |        |        | ●      | ●      | ○      |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     | ● |               |  |  |
|                                                                                     | 120408          | 0.15-0.60           | 1.0-6.0    |        |        | ●      | ●      | ○      |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     | ● |               |  |  |
|                                                                                     | 120412          | 0.15-0.70           | 1.5-6.0    |        |        | ●      | ●      | ○      | ●      |        |        |        |        |        |        |        |               |        |        |        |               |     |     |   |               |  |  |
|                                                                                     | 120416          | 0.20-0.80           | 2.0-6.0    |        |        | ●      | ●      | ○      |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |   |               |  |  |
|                                                                                     | 160612          | 0.15-0.70           | 2.0-8.0    |        |        | ●      | ●      | ○      |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |   |               |  |  |
|                                                                                     | 160616          | 0.20-0.80           | 2.0-8.0    |        |        |        | ●      |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |   |               |  |  |
|                                                                                     | 190604          | 0.15-0.50           | 2.0-10.0   |        |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |   |               |  |  |
|                                                                                     | 190608          | 0.15-0.70           | 2.0-10.0   |        |        |        |        | ○      |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |   |               |  |  |
|                                                                                     | 190612          | 0.15-0.70           | 2.0-10.0   |        |        |        | ●      | ○      |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |   |               |  |  |
|                                                                                     | 190616          | 0.15-1.00           | 3.0-10.0   |        |        | ●      | ●      | ○      |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |   |               |  |  |
|                                                                                     |                 |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |   |               |  |  |
|  | CNMA 120408 WT  | 0.15-0.80           | 0.7-5.0    |        |        | ●      |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |   |               |  |  |
|                                                                                     |                 |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |   |               |  |  |
|                                                                                     |                 |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |   |               |  |  |
|                                                                                     |                 |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |   |               |  |  |
| Per sgrossatura                                                                     |                 |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |   |               |  |  |
|  | CNMD 250924 HD  |                     |            |        |        |        |        |        | ●      | ●      | ●      |        |        |        |        |        |               |        |        |        |               |     |     |   |               |  |  |
|                                                                                     | Per sgrossatura | 0.55-1.50           | 4.0-15.0   |        |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |   |               |  |  |
|                                                                                     | Per finitura    | 0.40-0.80           | 2.0-5.0    |        |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |   |               |  |  |
|                                                                                     |                 |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |   |               |  |  |
|                                                                                     |                 |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |   |               |  |  |
|                                                                                     |                 |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |   |               |  |  |
|                                                                                     |                 |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |   |               |  |  |
|                                                                                     |                 |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |   |               |  |  |
| Per finitura                                                                        |                 |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |   |               |  |  |

● : Standard ○ : Semi Standard



A41, A42, A53, A54, A74,  
A75, A110, A112, A123, A131,  
A150, A162, A173, A176

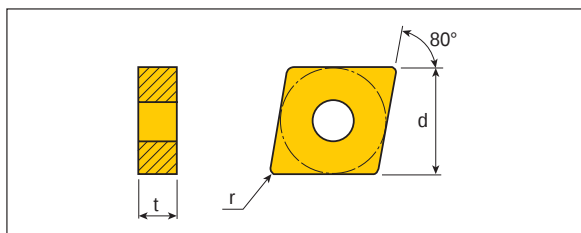
## Inserti Rombici Negativi a 80°



| Misura | Dimensioni (mm) |      |     |
|--------|-----------------|------|-----|
|        | d               | t    | r   |
| 19     | 19.05           | 6.35 | 2.4 |
| 25     | 25.4            | 9.52 | 2.4 |
|        |                 |      |     |
|        |                 |      |     |
|        |                 |      |     |
|        |                 |      |     |
|        |                 |      |     |

| Inserto                                                                                                                  | Descrizione                                                                                         | Avanz.<br>(mm/giro) | ap<br>(mm) | Cermet |        | Rivestito CVD |        |        |        |        |        |        |        | Rivestito PVD |        |        |        | Non rivestito |        |        |     |     |
|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------|------------|--------|--------|---------------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|---------------|--------|--------|-----|-----|
|                                                                                                                          |                                                                                                     |                     |            | PV3010 | CT3000 | TT7005        | TT7015 | TT7310 | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235        | TT5100 | TT7100 | TT5080 | TT8020        | TT9020 | TT9080 | P20 | K10 |
| <b>TOPDUTY</b><br><br>Per sgrossatura   | <b>CNMD 190624 HT</b>                                                                               |                     |            |        |        |               |        |        | ●      | ●      |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                          | Per sgrossatura                                                                                     | 0.35-0.90           | 4.0-9.0    |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                          | Per finitura                                                                                        | 0.40-0.80           | 2.0-5.0    |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                          |                                                                                                     |                     |            |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                          | <b>250924 HT</b>                                                                                    |                     |            |        |        |               |        |        | ●      | ●      |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                          | Per sgrossatura                                                                                     | 0.55-1.30           | 5.0-12.0   |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
| <br>Per finitura                        | Per finitura                                                                                        | 0.40-0.80           | 2.0-5.0    |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                          |                                                                                                     |                     |            |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                          |                                                                                                     |                     |            |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                          |                                                                                                     |                     |            |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                          |                                                                                                     |                     |            |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                          |                                                                                                     |                     |            |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
| <b>TOPDUTY</b><br><br>Per sgrossatura   | <b>CNMD 190624 HY</b>                                                                               |                     |            |        |        |               |        |        | ●      | ●      |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                          | Per sgrossatura                                                                                     | 0.50-1.10           | 4.0-12.0   |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                          | Per finitura                                                                                        | 0.40-0.80           | 2.0-5.0    |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                          |                                                                                                     |                     |            |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                          | <b>250924 HY</b>                                                                                    |                     |            |        |        |               |        |        | ●      | ●      | ●      |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                          | Per sgrossatura                                                                                     | 0.55-1.50           | 4.0-15.0   |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
| <br>Per finitura                       | Per finitura                                                                                        | 0.40-0.80           | 2.0-5.0    |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                          |                                                                                                     |                     |            |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                          |                                                                                                     |                     |            |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                          |                                                                                                     |                     |            |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                          |                                                                                                     |                     |            |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                          |                                                                                                     |                     |            |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
| <b>TOPDUTY</b><br><br>Per sgrossatura | <b>CNMD 250924 HZ</b>                                                                               |                     |            |        |        |               |        |        | ●      | ●      | ●      |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                          | Per sgrossatura                                                                                     | 0.55-1.50           | 4.0-15.0   |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                          | Per finitura                                                                                        | 0.40-0.80           | 2.0-5.0    |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                          |                                                                                                     |                     |            |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                          |                                                                                                     |                     |            |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                          |                                                                                                     |                     |            |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                          |                                                                                                     |                     |            |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                          |                                                                                                     |                     |            |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                          |                                                                                                     |                     |            |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                          |                                                                                                     |                     |            |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                          |                                                                                                     |                     |            |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                          |                                                                                                     |                     |            |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                          |                                                                                                     |                     |            |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                          |                                                                                                     |                     |            |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                          |                                                                                                     |                     |            |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                          |                                                                                                     |                     |            |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                          |                                                                                                     |                     |            |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                          | <br>Per finitura |                     |            |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                          |                                                                                                     |                     |            |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |

### Inserti Rombici Negativi a 80°



| Misura    | Dimensioni (mm) |           |         |
|-----------|-----------------|-----------|---------|
|           | d               | t         | r       |
| <b>09</b> | 9.52            | 4.76      | 0.4-1.2 |
| <b>12</b> | 12.7            | 4.76      | 0.4-1.6 |
| <b>16</b> | 15.88           | 4.76-6.35 | 0.4-1.6 |
| <b>19</b> | 19.05           | 6.35      | 0.4-1.6 |
|           |                 |           |         |
|           |                 |           |         |

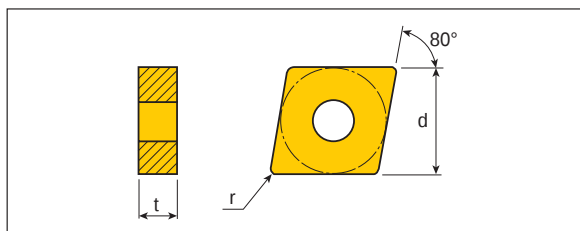
| Inserto                                                                                             | Descrizione | Avanz.<br>(mm/giro) | ap<br>(mm) | Cermet   |        |        |        |        |        |        |        |        |        | Rivestito CVD |        |        |        |        |        | Rivestito PVD |     |     |     | Non rivestito |  |  |
|-----------------------------------------------------------------------------------------------------|-------------|---------------------|------------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------------|-----|-----|-----|---------------|--|--|
|                                                                                                     |             |                     |            | PV3010   | CT3000 | TT7005 | TT7015 | TT7310 | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235        | TT5100 | TT7100 | TT5080 | TT8020 | TT9020 | TT9080        | P20 | K10 | K20 |               |  |  |
| <br>Lav. Medio     | CNMG        | 090404              | 0.10-0.45  | 0.5-4.0  |        |        | ●      | ●      |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                     |             | 090408              | 0.10-0.50  | 0.5-4.0  |        |        | ●      | ●      |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                     |             | 090412              | 0.10-0.55  | 0.5-4.0  |        |        | ●      | ●      |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                     |             |                     |            |          |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
| <br>Lav. Medio     | CNMG        | 120404              | 0.17-0.45  | 1.0-5.0  | ●      | ●      | ●      | ○      | ●      | ●      | ●      |        |        | ●             |        | ●      |        |        |        | ●             |     |     |     |               |  |  |
|                                                                                                     |             | 120408              | 0.23-0.60  | 1.5-5.0  | ●      | ●      | ●      | ○      | ●      | ●      | ●      |        |        | ●             |        | ●      | ●      |        |        | ●             |     | ●   |     |               |  |  |
|                                                                                                     |             | 120412              | 0.25-0.60  | 2.0-5.0  |        |        | ●      | ●      | ○      | ●      | ●      |        |        | ●             |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                     |             | 120416              | 0.27-0.60  | 2.5-5.0  |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                     |             | 160408              | 0.25-0.60  | 2.0-6.5  |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                     |             | 160604              | 0.20-0.45  | 2.0-6.5  |        |        |        |        |        |        | ●      |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                     |             | 160608              | 0.25-0.60  | 2.0-6.5  |        |        |        |        |        | ●      | ●      |        |        | ●             |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                     |             | 160612              | 0.27-0.60  | 2.0-6.5  |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                     |             | 160616              | 0.29-0.60  | 2.0-6.5  |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                     |             | 190604              | 0.20-0.45  | 3.0-8.0  |        |        |        |        |        | ●      | ●      |        |        | ●             |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                     |             | 190608              | 0.25-0.60  | 3.0-8.0  |        |        | ●      | ●      | ○      | ●      | ●      | ●      |        | ●             |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                     |             | 190612              | 0.30-0.60  | 3.0-8.0  |        |        | ●      | ●      |        | ●      | ●      | ●      |        | ●             | ●      |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                     |             | 190616              | 0.35-0.70  | 3.0-8.0  |        |        |        |        |        | ●      | ●      | ●      |        | ●             |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                     |             |                     |            |          |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                     |             |                     |            |          |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                     |             |                     |            |          |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                     |             |                     |            |          |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
| <br>Per finitura | CNMG        | 090404 EA           | 0.05-0.30  | 0.13-1.5 |        |        |        |        |        |        |        | ●      | ●      | ●             |        | ●      |        | ●      |        |               |     |     |     |               |  |  |
|                                                                                                     |             | 090408 EA           | 0.07-0.40  | 0.15-1.5 |        |        |        |        |        |        |        | ●      | ●      | ●             |        | ●      |        | ●      |        |               |     |     |     |               |  |  |
|                                                                                                     |             |                     |            |          |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                     |             |                     |            |          |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
| <br>Per finitura | CNMG        | 120404 EA           | 0.05-0.30  | 0.15-1.5 |        |        |        |        | ●      | ●      |        | ●      | ●      | ●             | ●      | ●      | ●      | ●      |        |               |     |     |     |               |  |  |
|                                                                                                     |             | 120408 EA           | 0.07-0.40  | 0.15-1.5 | ●      |        |        |        | ●      |        |        | ●      | ●      | ●             |        | ●      |        | ●      |        |               |     |     |     |               |  |  |
|                                                                                                     |             |                     |            |          |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                     |             |                     |            |          |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                     |             |                     |            |          |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                     |             |                     |            |          |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                     |             |                     |            |          |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                     |             |                     |            |          |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |

●: Standard ○: Semi Standard



A41, A42, A53, A54, A74,  
A75, A110, A112, A123, A131,  
A150, A162, A173, A176

## Inserti Rombici Negativi a 80°

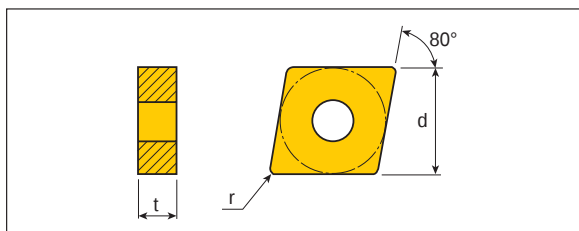


| Misura | Dimensioni (mm) |      |         |
|--------|-----------------|------|---------|
|        | d               | t    | r       |
| 09     | 9.52            | 4.76 | 0.8-1.2 |
| 12     | 12.7            | 4.76 | 0.4-1.6 |
| 16     | 15.88           | 6.35 | 0.8-1.6 |
| 19     | 19.05           | 6.35 | 0.8-1.6 |
|        |                 |      |         |
|        |                 |      |         |

| Inserto                                                                                                | Descrizione    | Avanz.<br>(mm/giro) | ap<br>(mm) | Cermet |        |        |        |        |        |        |        |        |        | Rivestito CVD |        |        |        |        |        | Rivestito PVD |     |     |     | Non rivestito |  |  |  |
|--------------------------------------------------------------------------------------------------------|----------------|---------------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------------|-----|-----|-----|---------------|--|--|--|
|                                                                                                        |                |                     |            | PV3010 | CT3000 | TT7005 | TT7015 | TT7310 | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235        | TT5100 | TT7100 | TT5080 | TT8020 | TT9020 | TT9080        | P20 | K10 | K20 |               |  |  |  |
| <br>Lav. Medie        | CNMG 090408 EM | 0.13-0.40           | 0.5-4.0    |        |        |        |        |        |        |        |        | ●      | ●      | ●             |        |        | ●      |        | ●      |               |     |     |     |               |  |  |  |
|                                                                                                        | 090412 EM      | 0.15-0.40           | 0.7-4.0    |        |        |        |        |        |        |        |        |        | ●      | ●             | ●      |        |        | ●      |        | ●             |     |     |     |               |  |  |  |
|                                                                                                        |                |                     |            |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |  |
|                                                                                                        |                |                     |            |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |  |
| <br>Lav. Medie        | CNMG 120404 EM | 0.11-0.50           | 0.5-5.0    |        |        |        |        |        |        |        |        | ●      | ●      | ●             |        |        | ●      |        | ●      |               |     |     |     |               |  |  |  |
|                                                                                                        | 120408 EM      | 0.13-0.50           | 0.5-5.0    |        |        |        |        |        |        |        |        |        | ●      | ●             | ●      |        |        | ●      |        | ●             |     |     |     |               |  |  |  |
|                                                                                                        | 120412 EM      | 0.15-0.55           | 0.5-5.0    |        |        |        |        |        |        |        |        |        | ●      | ●             | ●      |        |        | ●      |        | ●             |     |     |     |               |  |  |  |
|                                                                                                        | 120416 EM      | 0.17-0.60           | 0.5-5.0    |        |        |        |        |        |        |        |        |        |        | ●             |        |        |        | ●      |        |               |     |     |     |               |  |  |  |
|                                                                                                        | 160608 EM      | 0.13-0.50           | 0.5-6.5    |        |        |        |        |        |        |        |        |        |        |               |        |        |        | ●      |        |               |     |     |     |               |  |  |  |
|                                                                                                        | 160612 EM      | 0.15-0.55           | 0.5-6.5    |        |        |        |        |        |        |        |        |        |        |               |        |        |        | ●      |        |               |     |     |     |               |  |  |  |
|                                                                                                        | 160616 EM      | 0.17-0.60           | 0.5-6.5    |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |  |
|                                                                                                        | 190608 EM      | 0.13-0.50           | 0.5-8.0    |        |        |        |        |        |        |        |        |        |        |               |        |        |        | ●      |        |               |     |     |     |               |  |  |  |
|                                                                                                        | 190612 EM      | 0.15-0.55           | 0.5-8.0    |        |        |        |        |        |        |        |        |        |        |               | ●      |        |        | ●      |        | ●             |     |     |     |               |  |  |  |
|                                                                                                        | 190616 EM      | 0.17-0.60           | 0.5-8.0    |        |        |        |        |        |        |        |        |        |        |               |        |        |        | ●      |        |               |     |     |     |               |  |  |  |
|                                                                                                        |                |                     |            |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |  |
|                                                                                                        |                |                     |            |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |  |
| <br>Per sgrossatura | CNMG 120408 ET | 0.17-0.55           | 1.2-5.5    |        |        |        |        |        |        | ●      |        | ●      | ●      | ●             | ●      |        | ●      |        | ●      |               |     |     |     |               |  |  |  |
|                                                                                                        | 120412 ET      | 0.20-0.60           | 1.2-5.5    |        |        |        |        |        |        |        |        | ●      | ●      | ●             |        |        | ●      |        | ●      |               |     |     |     |               |  |  |  |
|                                                                                                        | 160608 ET      | 0.20-0.60           | 2.5-7.0    |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |  |
|                                                                                                        | 160612 ET      | 0.25-0.60           | 2.5-7.0    |        |        |        |        |        |        |        |        |        |        | ●             |        |        | ●      |        | ●      |               |     |     |     |               |  |  |  |
|                                                                                                        | 190608 ET      | 0.20-0.60           | 3.0-9.0    |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |  |
|                                                                                                        | 190612 ET      | 0.25-0.60           | 3.0-9.0    |        |        |        |        |        |        | ●      |        |        | ●      | ●             |        |        | ●      |        | ●      |               |     |     |     |               |  |  |  |
|                                                                                                        | 190616 ET      | 0.30-0.65           | 3.0-9.0    |        |        |        |        |        |        |        |        |        |        |               |        |        | ●      |        |        |               |     |     |     |               |  |  |  |
|                                                                                                        |                |                     |            |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |  |
| <br>Per finitura    | CNMG 120404 FA | 0.05-0.20           | 0.2-2.0    | ●      |        |        |        |        | ●      | ●      |        |        |        |               | ●      |        |        |        |        |               |     |     |     |               |  |  |  |
|                                                                                                        | 120408 FA      | 0.05-0.25           | 0.3-2.0    | ●      |        |        |        |        | ●      | ●      |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |  |
|                                                                                                        |                |                     |            |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |  |
|                                                                                                        |                |                     |            |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |  |
| <br>Per finitura    | CNMG 120404 FC | 0.05-0.30           | 0.2-2.5    | ●      | ●      |        |        |        | ●      | ●      |        | ●      | ●      |               | ●      |        |        |        |        |               |     |     |     |               |  |  |  |
|                                                                                                        | 120408 FC      | 0.08-0.35           | 0.3-2.5    | ●      |        |        |        |        | ●      | ●      |        | ●      | ●      |               | ●      |        |        |        |        |               |     |     |     |               |  |  |  |
|                                                                                                        | 120412 FC      | 0.10-0.40           | 0.3-2.5    |        |        |        |        |        | ●      | ●      |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |  |
|                                                                                                        |                |                     |            |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |  |
|                                                                                                        |                |                     |            |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |  |
|                                                                                                        |                |                     |            |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |  |

● : Standard ○ : Semi Standard

## Inserti Rombici Negativi a 80°



| Misura | Dimensioni (mm) |      |         |
|--------|-----------------|------|---------|
|        | d               | t    | r       |
| 09     | 9.52            | 4.76 | 0.4-1.2 |
| 12     | 12.7            | 4.76 | 0.4-1.6 |
|        |                 |      |         |
|        |                 |      |         |
|        |                 |      |         |
|        |                 |      |         |
|        |                 |      |         |

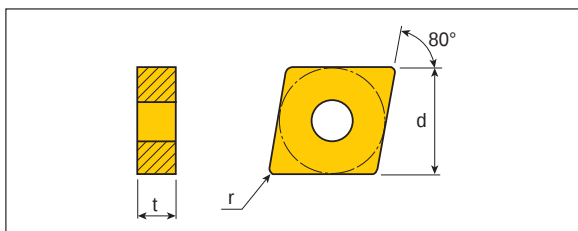
| Inserto                                                                                                | Descrizione    | Avanz.<br>(mm/giro) | ap<br>(mm) | Cermet |        |        |        |        |        |        |        |        |        |        |        | Rivestito CVD |        |        |        | Rivestito PVD |     |     |     | Non rivestito |  |  |
|--------------------------------------------------------------------------------------------------------|----------------|---------------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|---------------|-----|-----|-----|---------------|--|--|
|                                                                                                        |                |                     |            | PV3010 | CT3000 | TT7005 | TT7015 | TT7310 | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235 | TT5100 | TT7100        | TT5080 | TT8020 | TT9020 | TT9080        | P20 | K10 | K20 |               |  |  |
| <br>Per finitura      | CNMG 090404 FG | 0.07-0.30           | 0.2-2.0    |        |        |        |        |        | ●      | ●      |        |        |        | ●      |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                        | 090408 FG      | 0.10-0.35           | 0.5-2.0    |        |        |        |        |        | ●      | ●      |        |        |        | ●      |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                        | 090412 FG      | 0.15-0.40           | 0.5-2.0    |        |        |        |        |        | ●      | ●      |        |        |        | ●      |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                        |                |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
| <br>Per finitura      | CNMG 120404 FG | 0.05-0.30           | 0.2-2.5    | ●      | ●      |        |        |        | ●      | ●      |        |        |        | ●      |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                        | 120408 FG      | 0.08-0.35           | 0.3-2.5    | ●      | ●      |        |        |        | ●      | ●      |        |        |        | ●      |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                        |                |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                        |                |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
| <br>Per finitura      | CNMG 090404 FM | 0.07-0.30           | 0.25-2.0   | ●      |        |        |        |        | ●      | ●      | ●      |        |        | ●      |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                        | 090408 FM      | 0.10-0.35           | 0.3-2.0    | ●      |        |        |        |        | ●      | ●      | ●      |        |        | ●      |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                        | 090412 FM      | 0.15-0.40           | 0.35-2.0   | ●      |        |        |        |        | ●      | ●      | ●      |        |        | ●      |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                        |                |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
| <br>Per finitura    | CNMG 090404 FT | 0.07-0.30           | 0.4-3.5    |        |        |        |        |        | ●      | ●      | ●      |        |        | ●      |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                        | 090408 FT      | 0.10-0.40           | 0.5-3.5    |        |        |        |        |        | ●      | ●      | ●      |        |        | ●      |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                        | 090412 FT      | 0.15-0.50           | 0.6-3.5    |        |        |        |        |        | ●      | ●      | ●      |        |        | ●      |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                        |                |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
| <br>Per sgrassatura | CNMG 120408 KT | 0.19-0.53           | 0.38-7.0   |        |        | ●      | ●      |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                        | 120412 KT      | 0.25-0.70           | 0.50-7.0   |        |        | ●      | ●      |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                        | 120416 KT      | 0.28-0.85           | 0.75-7.0   |        |        | ●      | ●      |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                        |                |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
| <br>Lav. Medie      | CNMG 120404 MC | 0.10-0.30           | 0.5-3.5    | ●      |        |        |        |        | ●      | ●      |        |        |        | ●      |        | ●             |        |        |        |               |     |     |     |               |  |  |
|                                                                                                        | 120408 MC      | 0.12-0.35           | 0.7-3.5    | ●      |        | ●      | ○      |        | ●      | ●      |        |        |        | ●      | ●      | ●             |        | ●      |        |               |     |     |     |               |  |  |
|                                                                                                        | 120412 MC      | 0.15-0.40           | 0.7-3.5    |        |        |        |        |        | ●      | ●      |        |        |        | ●      |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                        |                |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
| <br>Lav. Medie      | CNMG 120404 ML | 0.10-0.30           | 0.8-3.5    | ●      |        |        |        |        | ●      | ●      |        | ●      | ●      | ●      |        | ●             | ●      |        |        |               |     | ●   |     |               |  |  |
|                                                                                                        | 120408 ML      | 0.12-0.35           | 1.0-3.5    | ●      |        |        |        |        | ●      | ●      |        | ●      | ●      | ●      |        | ●             | ●      |        | ●      |               |     | ●   |     |               |  |  |
|                                                                                                        | 120412 ML      | 0.15-0.35           | 1.3-3.5    |        |        |        |        |        |        |        |        |        |        | ●      |        | ●             |        |        |        |               |     |     |     |               |  |  |
|                                                                                                        |                |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |

●: Standard ○: Semi Standard



A41, A42, A53, A54, A74, A75,  
A110, A112, A123, A131, A150,  
A162, A173, A176

### Inserti Rombici Negativi a 80°



| Misura    | Dimensioni (mm) |      |         |
|-----------|-----------------|------|---------|
|           | d               | t    | r       |
| <b>09</b> | 9.52            | 4.76 | 0.4-1.2 |
| <b>12</b> | 12.7            | 4.76 | 0.4-1.2 |
| <b>16</b> | 15.88           | 6.35 | 0.8-1.6 |
| <b>19</b> | 19.05           | 6.35 | 0.8-1.6 |
|           |                 |      |         |
|           |                 |      |         |

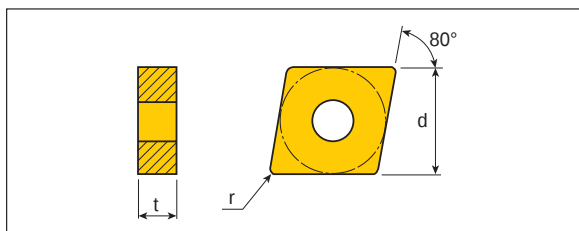
[illegible]

A41, A42, A53, A54, A74, A75,  
A110, A112, A123, A131, A150,  
A162, A173, A176

✓ : Rompitrucciolo vecchio tipo

●: Standard ○: Semi Standard

## Inserti Rombici Negativi a 80°



| Misura | Dimensioni (mm) |      |         |
|--------|-----------------|------|---------|
|        | d               | t    | r       |
| 09     | 9.52            | 4.76 | 0.4-1.2 |
| 12     | 12.7            | 4.76 | 0.4-1.6 |
| 16     | 15.88           | 6.35 | 0.8-1.6 |
| 19     | 19.05           | 6.35 | 0.8-1.6 |
| 25     | 25.4            | 9.52 | 2.4     |
|        |                 |      |         |
|        |                 |      |         |

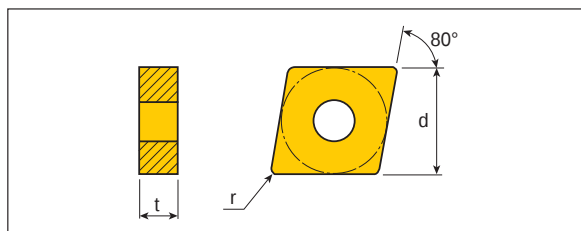
| Inserto                                                                                                | Descrizione    | Avanz.<br>(mm/giro) | ap<br>(mm) | Cermet |        | Rivestito CVD |        |        |        |        |        |        |        |        |        | Rivestito PVD |        |        |        | Non rivestito |     |     |     |
|--------------------------------------------------------------------------------------------------------|----------------|---------------------|------------|--------|--------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|---------------|-----|-----|-----|
|                                                                                                        |                |                     |            | PV3010 | CT3000 | TT7005        | TT7015 | TT7310 | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235 | TT5100 | TT7100        | TT5080 | TT8020 | TT9020 | TT9080        | P20 | K10 | K20 |
| <br>Lav. Medie        | CNMG 090404 PC | 0.10-0.30           | 0.4-4.0    |        |        |               |        |        | ●      | ●      |        |        |        |        | ●      |               |        |        |        |               |     |     |     |
|                                                                                                        | 090408 PC      | 0.15-0.40           | 0.5-4.0    |        |        |               |        |        | ●      | ●      | ●      |        |        |        | ●      |               |        |        |        |               |     |     |     |
|                                                                                                        | 090412 PC      | 0.18-0.50           | 0.6-4.0    |        |        |               |        |        | ●      | ●      |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                        |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
| <br>Lav. Medie        | CNMG 120404 PC | 0.10-0.40           | 0.4-5.0    |        |        |               |        |        | ●      | ●      |        | ●      | ●      | ●      | ●      |               |        |        |        |               |     |     |     |
|                                                                                                        | 120408 PC      | 0.15-0.50           | 0.5-5.0    |        |        |               |        |        | ●      | ●      | ●      | ●      | ●      | ●      | ●      |               |        |        |        | ●             |     |     |     |
|                                                                                                        | 120412 PC      | 0.17-0.55           | 0.6-5.0    |        |        |               |        |        | ●      | ●      |        |        | ●      | ●      |        |               |        |        | ●      |               |     |     |     |
|                                                                                                        | 120416 PC      | 0.20-0.60           | 0.8-5.0    |        |        |               |        |        | ●      | ●      |        |        |        |        | ●      |               |        |        |        |               |     |     |     |
|                                                                                                        | 160608 PC      | 0.20-0.55           | 2.0-6.5    |        |        |               |        |        | ●      | ●      |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                        | 160612 PC      | 0.25-0.55           | 2.0-6.5    |        |        |               |        |        | ●      | ●      |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                        | 160616 PC      | 0.30-0.55           | 2.0-6.5    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                        | 190608 PC      | 0.23-0.55           | 3.0-8.0    |        |        |               |        |        | ●      | ●      |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                        | 190612 PC      | 0.25-0.55           | 3.0-8.0    |        |        |               |        |        | ●      | ●      |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                        | 190616 PC      | 0.30-0.55           | 3.0-8.0    |        |        |               |        |        |        | ●      |        |        |        |        |        |               |        |        |        |               |     |     |     |
| <br>Per sgrossatura | CNMG 120408 RT | 0.25-0.70           | 2.5-6.0    |        |        | ●             | ●      | ○      | ●      | ●      | ●      |        | ●      | ●      | ●      | ●             | ●      |        |        |               |     |     |     |
|                                                                                                        | 120412 RT      | 0.25-0.70           | 2.5-6.0    |        |        | ●             | ●      | ○      | ●      | ●      | ●      |        | ●      | ●      | ●      | ●             |        |        |        |               |     |     |     |
|                                                                                                        | 120416 RT      | 0.30-0.70           | 2.5-6.0    |        |        |               | ●      | ○      | ●      |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                        | 160612 RT      | 0.25-0.70           | 3.0-7.0    |        |        | ●             | ●      | ○      | ●      | ●      | ●      |        |        |        | ●      | ●             |        |        |        |               |     |     |     |
|                                                                                                        | 160616 RT      | 0.30-0.85           | 3.0-7.0    |        |        | ●             | ●      | ○      | ●      | ●      |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                        | 190608 RT      | 0.25-0.70           | 3.0-9.0    |        |        |               |        |        |        | ●      | ●      |        |        |        | ●      |               |        |        |        |               |     |     |     |
|                                                                                                        | 190612 RT      | 0.25-0.70           | 3.0-9.0    |        |        | ●             | ●      | ○      | ●      | ●      | ●      |        | ●      | ●      | ●      | ●             |        |        |        |               |     |     |     |
|                                                                                                        | 190616 RT      | 0.30-0.85           | 3.0-9.0    |        |        | ●             | ●      | ○      | ●      | ●      | ●      |        |        |        | ●      | ●             |        | ●      |        |               |     |     |     |
|                                                                                                        | 250924 RT      | 0.45-1.00           | 5.0-12.0   |        |        |               |        |        | ●      | ●      |        |        |        |        |        |               |        |        |        |               |     |     |     |
| <br>Per finitura    | CNMG 120404 SF | 0.08-0.25           | 0.5-1.5    | ●      |        |               |        |        |        |        |        |        |        |        | ●      |               | ●      | ●      |        |               |     |     |     |
|                                                                                                        | 120408 SF      | 0.10-0.30           | 0.7-1.5    | ●      |        |               |        |        | ●      | ●      |        |        |        |        | ●      |               | ●      | ●      |        |               |     |     |     |
|                                                                                                        |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                        |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
| <br>Per finitura    | CNMG 120404 WS | 0.05-0.35           | 0.5-2.0    | ●      |        |               |        |        | ●      |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                        |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                        |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                        |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                        |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                        |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |

● : Standard ○ : Semi Standard

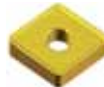


A41, A42, A53, A54, A74,  
A75, A110, A112, A123, A131,  
A150, A162, A173, A176

## Inserti Rombici Negativi a 80°



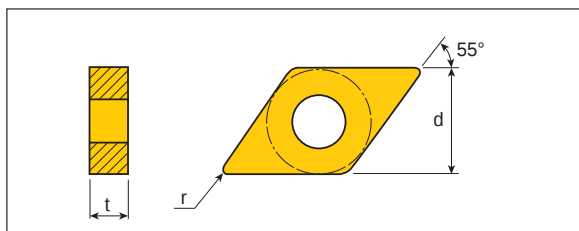
| Misura | Dimensioni (mm) |           |         |
|--------|-----------------|-----------|---------|
|        | d               | t         | r       |
| 12     | 12.7            | 4.76      | 0.8-1.2 |
| 16     | 15.88           | 6.35      | 0.8-1.6 |
| 19     | 19.05           | 6.35      | 0.8-2.4 |
| 25     | 25.4            | 7.94-9.52 | 2.4-3.2 |
|        |                 |           |         |
|        |                 |           |         |

| Inserto                                                                                                                                                                                   | Descrizione    | Avanz.<br>(mm/giro) | ap<br>(mm) | Cermet |        |        |        |        |        |        |        |        |        | Rivestito CVD |        |        |        |        |        | Rivestito PVD |     |     |     | Non rivestito |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|---------------|-----|-----|-----|---------------|--|--|
|                                                                                                                                                                                           |                |                     |            | PV3010 | CT3000 | TT7005 | TT7015 | TT7310 | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235        | TT5100 | TT7100 | TT5080 | TT8020 | TT9020 | TT9080        | P20 | K10 | K20 |               |  |  |
|                                                                                                          | CNMG 120408 WT | 0.15-0.60           | 1.0-5.0    | ●      | ●      | ●      |        |        | ●      | ●      |        | ●      |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                                                                                           | 120412 WT      | 0.20-0.80           | 1.0-5.0    |        |        |        |        |        | ●      | ●      |        |        | ●      |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                                                                                           |                |                     |            |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                                                                                           |                |                     |            |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
| Lav. Medie                                                                                                                                                                                |                |                     |            |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                          | CNMM 190612 HT | 0.35-0.9            | 4.0-9.0    |        |        |        |        |        | ●      |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                                                                                           | 190616 HT      | 0.45-1.0            | 4.0-9.0    |        |        |        |        |        | ●      | ●      |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                                                                                           | 190624 HT      | 0.55-1.2            | 4.0-9.0    |        |        |        |        |        | ●      | ●      |        |        |        | ●             |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                                                                                           | 250724 HT      | 0.55-1.3            | 5.0-12.0   |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                                                                                           | 250924 HT      | 0.55-1.3            | 5.0-12.0   |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                                                                                           | 250932 HT      | 0.65-1.3            | 5.0-13.0   |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                         | CNMM 190624 HY | 0.50-1.10           | 4.0-12.0   |        |        |        |        |        | ●      | ●      |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                                                                                           | 250924 HY      | 0.55-1.50           | 4.0-15.0   |        |        |        |        |        | ●      | ●      | ●      |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                                                                                           |                |                     |            |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                                                                                           |                |                     |            |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
| Lav. Pesanti                                                                                                                                                                              |                |                     |            |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                        | CNMM 250924 HZ | 0.55 - 1.50         | 4.0 - 15.0 |        |        |        |        |        | ●      | ●      |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                                                                                           |                |                     |            |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                                                                                           |                |                     |            |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                                                                                           |                |                     |            |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
| Lav. Pesanti                                                                                                                                                                              |                |                     |            |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
| <br>RH(N)<br><br>RH | CNMM 120408 RH | 0.30 - 0.70         | 2.5 - 6.0  |        |        |        |        |        | ●      | ●      |        |        |        | ●             |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                                                                                           | 120408 RH(N)   | 0.25 - 0.60         | 2.0 - 5.0  |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                                                                                           | 120412 RH      | 0.30 - 0.80         | 2.5 - 6.0  |        |        |        |        |        | ●      | ●      |        |        |        | ●             |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                                                                                           | 160608 RH      | 0.30 - 0.70         | 3.0 - 8.0  |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                                                                                           | 160612 RH      | 0.30 - 0.80         | 3.0 - 8.0  |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                                                                                           | 160616 RH      | 0.45 - 1.00         | 4.0 - 8.0  |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                                                                                           | 190608 RH *    | 0.30 - 0.70         | 3.0 - 9.0  |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                                                                                           | 190612 RH      | 0.35 - 0.80         | 4.0 - 9.0  |        |        |        |        |        | ●      | ●      |        |        |        | ●             |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                                                                                           | 190612 RH(N)   | 0.30 - 0.70         | 3.0 - 8.0  |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                                                                                           | 190616 RH      | 0.45 - 1.00         | 4.0 - 9.0  |        |        |        |        |        | ●      | ●      |        | ●      |        | ●             |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                                                                                           | 190616 RH(N)   | 0.45 - 0.90         | 3.0 - 8.0  |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                                                                                           | 190624 RH      | 0.55 - 1.20         | 4.0 - 9.0  |        |        |        |        |        | ●      | ●      |        |        |        | ●             |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                                                                                           | 250724 RH *    | 0.55 - 1.20         | 5.0 - 12.0 |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                                                                                           | 250924 RH *    | 0.55 - 1.20         | 5.0 - 12.0 |        |        |        |        |        |        | ●      |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                                                                                           |                |                     |            |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                                                                                           |                |                     |            |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |        |               |     |     |     |               |  |  |



# T-TURN DNGG DNMA DNMG

## Inserti Rombici Negativi a 55°



| Misura | Dimensioni (mm) |           |         |
|--------|-----------------|-----------|---------|
|        | d               | t         | r       |
| 11     | 9.52            | 4.76      | 0.8-1.2 |
| 13     | 11.11           | 5.56      | 0.4-1.2 |
| 15     | 12.7            | 4.76-6.35 | 0.1-1.6 |
|        |                 |           |         |
|        |                 |           |         |
|        |                 |           |         |
|        |                 |           |         |

| Inserto                                                                                                  | Descrizione           | Avanz.<br>(mm/giro) | ap<br>(mm) | Cermet |        | Rivestito CVD |        |        |        |        |        |        |        |        |        | Rivestito PVD |        |        |        | Non rivestito |     |     |     |
|----------------------------------------------------------------------------------------------------------|-----------------------|---------------------|------------|--------|--------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|---------------|-----|-----|-----|
|                                                                                                          |                       |                     |            | PV3010 | CT3000 | TT7005        | TT7015 | TT7310 | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235 | TT5100 | TT7100        | TT5080 | TT8020 | TT9020 | TT9080        | P20 | K10 | K20 |
| <br><br>Lav. Medie      | <b>DNGG 150401 ML</b> | 0.03-0.10           | 1.0-1.0    |        |        |               |        |        |        |        |        |        |        |        |        | ●             |        |        |        |               | ●   |     |     |
|                                                                                                          | <b>150402 ML</b>      | 0.05-0.15           | 0.2-1.2    |        |        |               |        |        |        |        |        |        |        |        |        | ●             |        |        |        |               | ●   |     |     |
|                                                                                                          | <b>150404 ML</b>      | 0.10-0.30           | 0.8-3.5    |        |        |               |        |        |        |        |        |        |        |        |        | ●             |        |        |        |               | ●   |     |     |
|                                                                                                          | <b>150408 ML</b>      | 0.12-0.35           | 1.0-3.5    |        |        |               |        |        |        |        |        |        |        |        |        | ●             |        |        |        |               | ●   |     |     |
|                                                                                                          |                       |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                          |                       |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
| <br><br>Per sgrossatura | <b>DNMA 110408 *</b>  | 0.15-0.50           | 0.8-3.0    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                          | <b>110412 *</b>       | 0.15-0.50           | 0.8-3.0    |        |        | ○             |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                          | <b>150404</b>         | 0.15-0.50           | 0.4-4.0    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                          | <b>150604</b>         | 0.15-0.50           | 0.4-4.0    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                          | <b>150408</b>         | 0.15-0.65           | 0.8-4.0    |        |        | ●             | ●      | ○      |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                          | <b>150608</b>         | 0.15-0.65           | 0.8-4.0    |        |        |               | ●      | ○      |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                          | <b>150412</b>         | 0.15-0.65           | 1.2-4.0    |        |        |               | ●      | ○      |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                          | <b>150612</b>         | 0.15-0.65           | 1.2-4.0    |        |        |               |        | ○      |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
| <br><br>Lav. Medie    | <b>DNMG 130504</b>    | 0.10-0.45           | 0.5-4.0    |        |        | ●             | ●      |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                          | <b>130508</b>         | 0.10-0.50           | 0.5-4.0    |        |        | ●             | ●      |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                          | <b>130512</b>         | 0.10-0.55           | 0.5-4.0    |        |        | ●             | ●      |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                          |                       |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
| <br><br>Lav. Medie    | <b>DNMG 150404</b>    | 0.17-0.45           | 1.0-4.0    |        |        |               | ●      |        |        | ●      |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                          | <b>150604</b>         | 0.17-0.45           | 1.0-4.0    | ●      | ●      | ●             |        | ●      | ●      |        |        |        | ●      |        |        |               |        |        |        |               |     |     |     |
|                                                                                                          | <b>150408</b>         | 0.17-0.55           | 1.5-4.0    |        |        |               |        |        | ●      |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                          | <b>150608</b>         | 0.17-0.55           | 1.5-4.0    | ●      | ●      | ●             | ○      | ●      | ●      | ●      |        |        | ●      |        |        |               |        |        |        |               |     |     |     |
|                                                                                                          | <b>150412</b>         | 0.25-0.55           | 1.5-4.0    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                          | <b>150612</b>         | 0.25-0.55           | 1.5-4.0    |        |        | ●             |        | ○      | ●      | ●      |        |        | ●      |        |        |               |        |        |        |               |     |     |     |
|                                                                                                          | <b>150416</b>         | 0.25-0.65           | 2.5-4.0    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                          | <b>150616</b>         | 0.25-0.65           | 2.5-4.0    |        |        |               |        |        | ●      |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                          |                       |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                          |                       |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                          |                       |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                          |                       |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |

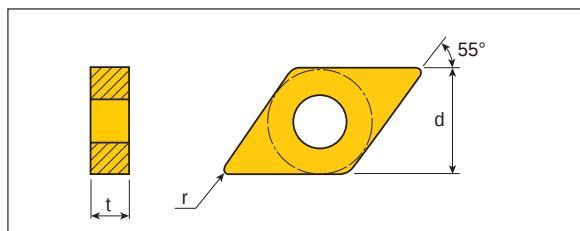


A43, A44, A49, A50, A55, A76, A77, A103,  
A110, A112, A124, A125, A132, A137,  
A138, A139, A151, A152, A162

\* : Inserto con foro per vite

● : Standard ○ : Semi Standard

## Inserti Rombici Negativi a 55°



| Misura | Dimensioni (mm) |           |         |
|--------|-----------------|-----------|---------|
|        | d               | t         | r       |
| 11     | 9.52            | 4.76      | 0.4-0.8 |
| 13     | 11.11           | 5.56      | 0.4-1.2 |
| 15     | 12.7            | 4.76-6.35 | 0.4-1.6 |
|        |                 |           |         |
|        |                 |           |         |
|        |                 |           |         |

| Inserto                                                                                                | Descrizione      | Avanz.<br>(mm/giro) | ap<br>(mm) | Cermet |        | Rivestito CVD |        |        |        |        |        |        |        |        |        | Rivestito PVD |        | Non rivestito |        |        |     |     |     |
|--------------------------------------------------------------------------------------------------------|------------------|---------------------|------------|--------|--------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|---------------|--------|--------|-----|-----|-----|
|                                                                                                        |                  |                     |            | PV3010 | CT3000 | TT7005        | TT7015 | TT7310 | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235 | TT5100 | TT7100        | TT5080 | TT8020        | TT9020 | TT9080 | P20 | K10 | K20 |
| <br>Per finitura      | DNMG 130504 EA   | 0.05-0.30           | 0.13-1.5   |        |        |               |        |        |        |        |        | ●      | ●      | ●      |        | ●             |        | ●             |        |        |     |     |     |
|                                                                                                        | 130508 EA        | 0.07-0.40           | 0.15-1.5   |        |        |               |        |        |        |        |        | ●      | ●      | ●      |        | ●             |        | ●             |        |        |     |     |     |
|                                                                                                        |                  |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |               |        |        |     |     |     |
|                                                                                                        |                  |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |               |        |        |     |     |     |
| <br>Per finitura      | DNMG 150404 EA   | 0.05-0.2            | 0.1-1.5    |        |        |               |        |        |        |        |        |        | ●      |        |        |               |        |               |        |        |     |     |     |
|                                                                                                        | 150408 EA        | 0.10-0.4            | 0.1-1.5    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |               |        |        |     |     |     |
|                                                                                                        | 150604 EA        | 0.05-0.2            | 0.1-1.5    |        |        |               |        |        |        |        |        |        | ●      |        |        | ●             |        | ●             |        |        |     |     |     |
|                                                                                                        | 150608 EA        | 0.10-0.4            | 0.1-1.5    |        |        |               |        |        |        |        |        |        |        |        |        | ●             |        | ●             |        |        |     |     |     |
| <br>Lav. Medie        | DNMG 130508 EM   | 0.13-0.40           | 0.5-4.0    |        |        |               |        |        |        |        |        | ●      | ●      | ●      |        | ●             |        | ●             |        |        |     |     |     |
|                                                                                                        | 130512 EM        | 0.15-0.40           | 0.7-4.0    |        |        |               |        |        |        |        |        | ●      | ●      | ●      |        | ●             |        | ●             |        |        |     |     |     |
|                                                                                                        |                  |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |               |        |        |     |     |     |
|                                                                                                        |                  |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |               |        |        |     |     |     |
| <br>Lav. Medie      | DNMG 110408 EM   | 0.13-0.50           | 0.5-4.0    |        |        |               |        |        |        |        |        | ○      | ○      | ○      |        |               |        |               |        |        |     |     |     |
|                                                                                                        | 150408 EM        | 0.13-0.50           | 0.5-5.0    |        |        |               |        |        |        |        |        | ●      | ●      | ●      |        |               |        |               |        |        |     |     |     |
|                                                                                                        | 150608 EM        | 0.13-0.50           | 0.5-5.0    |        |        |               |        |        |        |        |        | ●      | ●      | ●      |        | ●             |        | ●             |        |        |     |     |     |
|                                                                                                        | 150412 EM        | 0.15-0.55           | 0.5-5.0    |        |        |               |        |        |        |        |        | ●      | ●      | ●      |        |               |        |               |        |        |     |     |     |
|                                                                                                        | 150612 EM        | 0.15-0.55           | 0.5-5.0    |        |        |               |        |        |        |        |        | ●      | ●      | ●      |        |               |        |               |        |        |     |     |     |
| <br>Per sgrossatura | DNMG 150408 ET   | 0.20-0.60           | 1.0-6.0    |        |        |               |        |        |        |        |        | ●      | ●      | ●      |        | ●             |        | ●             |        |        |     |     |     |
|                                                                                                        | 150412 ET        | 0.25-0.60           | 1.0-6.0    |        |        |               |        |        |        |        |        | ●      | ●      | ●      |        | ●             |        | ●             |        |        |     |     |     |
|                                                                                                        | 150608 ET        | 0.20-0.60           | 1.0-6.0    |        |        |               |        |        |        |        |        | ●      |        | ●      |        | ●             |        | ●             |        |        |     |     |     |
|                                                                                                        | 150612 ET        | 0.25-0.60           | 1.0-6.0    |        |        |               |        |        |        |        |        | ●      |        | ●      |        | ●             |        | ●             |        |        |     |     |     |
| <br>Per finitura    | DNMG 150408 FA   | 0.05-0.20           | 0.2-2.0    | ●      |        |               |        |        | ●      |        |        |        |        |        |        |               |        |               |        |        |     |     |     |
|                                                                                                        | 150608 FA        | 0.05-0.20           | 0.2-2.0    | ●      |        |               |        |        | ●      |        |        |        |        |        |        |               |        |               |        |        |     |     |     |
|                                                                                                        |                  |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |               |        |        |     |     |     |
| <br>Per finitura    | DNMG 110404 FC * | 0.07-0.20           | 0.5-2.0    | ○      |        |               |        |        |        |        |        |        |        |        | ○      |               |        |               |        |        |     |     |     |
|                                                                                                        | 110408 FC *      | 0.10-0.25           | 0.7-2.0    | ○      |        |               |        |        | ○      | ○      |        |        | ○      | ○      |        |               |        |               |        |        |     |     |     |
|                                                                                                        | 150404 FC        | 0.05-0.30           | 0.2-2.5    |        |        |               |        |        | ●      | ●      |        |        |        |        |        |               |        |               |        |        |     |     |     |
|                                                                                                        | 150604 FC        | 0.05-0.30           | 0.2-2.5    | ●      | ●      |               |        |        | ●      |        |        | ●      |        |        |        |               |        |               |        |        |     |     |     |
|                                                                                                        | 150408 FC        | 0.08-0.35           | 0.3-2.5    | ●      |        |               |        |        | ●      | ●      |        |        |        |        |        |               |        |               |        |        |     |     |     |
|                                                                                                        | 150608 FC        | 0.08-0.35           | 0.3-2.5    | ●      |        |               |        |        | ●      | ●      |        |        |        |        |        |               |        |               |        |        |     |     |     |
|                                                                                                        | 150412 FC        | 0.08-0.35           | 0.5-2.5    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |               |        |        |     |     |     |
| 150612 FC                                                                                              | 0.08-0.35        | 0.5-2.5             |            |        |        |               |        |        | ●      |        |        |        |        |        |        |               |        |               |        |        |     |     |     |

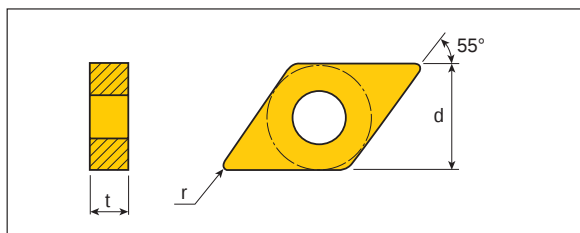
● : Standard ○ : Semi Standard

\* : Inserto con foro per vite



A43, A44, A49, A50, A55, A76, A77,  
A103, A110, A112, A124, A125, A132,  
A137, A138, A139, A151, A152, A162

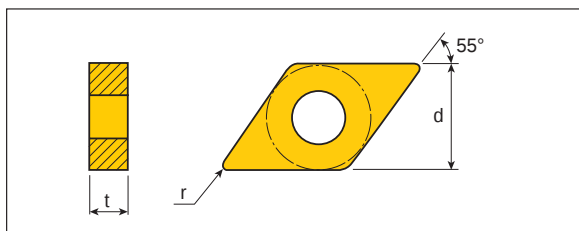
## Inserti Rombici Negativi a 55°



| Misura | Dimensioni (mm) |           |         |
|--------|-----------------|-----------|---------|
|        | d               | t         | r       |
| 11     | 9.52            | 4.76      | 0.4-0.8 |
| 13     | 11.11           | 5.56      | 0.4-1.2 |
| 15     | 12.7            | 4.76-6.35 | 0.4-1.2 |
|        |                 |           |         |
|        |                 |           |         |
|        |                 |           |         |
|        |                 |           |         |

| Inserto                                                                                                  | Descrizione      | Avanz.<br>(mm/giro) | ap<br>(mm) | Cermet |        | Rivestito CVD |        |        |        |        |        |        |        |        |        | Rivestito PVD |        |        |        | Non rivestito |     |     |     |
|----------------------------------------------------------------------------------------------------------|------------------|---------------------|------------|--------|--------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|---------------|-----|-----|-----|
|                                                                                                          |                  |                     |            | PV3010 | CT3000 | TT7005        | TT7015 | TT7310 | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235 | TT5100 | TT7100        | TT5080 | TT8020 | TT9020 | TT9080        | P20 | K10 | K20 |
| <br>Per finitura        | DNMG 130504 FG   | 0.07-0.30           | 0.2-2.0    |        |        |               |        |        |        | ●      | ●      |        |        |        | ●      |               |        |        |        |               |     |     |     |
|                                                                                                          | 130508 FG        | 0.10-0.35           | 0.5-2.0    |        |        |               |        |        |        | ●      | ●      |        |        |        | ●      |               |        |        |        |               |     |     |     |
|                                                                                                          | 130512 FG        | 0.15-0.40           | 0.5-2.0    |        |        |               |        |        |        | ●      | ●      |        |        |        | ●      |               |        |        |        |               |     |     |     |
|                                                                                                          |                  |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
| <br>OLD<br>Per finitura | DNMG 110404 FG * | 0.07-0.20           | 0.5-2.0    | ○      | ○      |               |        |        |        | ○      | ○      |        | ○      |        | ○      |               |        |        |        |               |     |     |     |
|                                                                                                          | 110408 FG *      | 0.10-0.25           | 0.7-2.0    | ○      | ○      |               |        |        |        | ○      |        |        |        |        | ○      |               |        |        |        |               |     |     |     |
|                                                                                                          | 150404 FG        | 0.07-0.20           | 0.5-2.0    | ●      | ●      |               |        |        |        | ●      | ●      |        |        |        | ●      |               |        |        |        |               |     |     |     |
|                                                                                                          | 150604 FG        | 0.07-0.20           | 0.5-2.0    | ●      | ●      |               |        |        |        | ●      | ●      |        |        |        | ●      |               |        |        |        |               |     |     |     |
|                                                                                                          | 150408 FG ✓      | 0.10-0.25           | 0.7-2.0    | ●      | ●      |               |        |        |        | ●      | ●      |        |        |        | ●      |               |        |        |        |               |     |     |     |
|                                                                                                          | 150412 FG        | 0.12-0.25           | 1.0-2.0    |        |        |               |        |        |        | ●      |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                          | 150608 FG ✓      | 0.10-0.25           | 0.7-2.0    | ●      | ●      |               |        |        |        | ●      | ●      |        |        |        | ●      |               |        |        |        |               |     |     |     |
| <br>Per finitura       | DNMG 130504 FM   | 0.07-0.30           | 0.25-2.0   |        | ●      |               |        |        |        | ●      | ●      | ●      |        |        | ●      |               |        |        |        |               |     |     |     |
|                                                                                                          | 130508 FM        | 0.10-0.35           | 0.3-2.0    |        | ●      |               |        |        |        | ●      | ●      | ●      |        |        | ●      |               |        |        |        |               |     |     |     |
|                                                                                                          | 130512 FM        | 0.15-0.40           | 0.35-2.0   |        | ●      |               |        |        |        | ●      | ●      | ●      |        |        | ●      |               |        |        |        |               |     |     |     |
|                                                                                                          |                  |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
| <br>Per finitura      | DNMG 130504 FT   | 0.07-0.30           | 0.25-3.5   |        |        |               |        |        |        | ●      | ●      | ●      |        |        | ●      |               |        |        |        |               |     |     |     |
|                                                                                                          | 130508 FT        | 0.10-0.40           | 0.3-3.5    |        |        |               |        |        |        | ●      | ●      | ●      |        |        | ●      |               |        |        |        |               |     |     |     |
|                                                                                                          | 130512 FT        | 0.15-0.50           | 0.35-3.0   |        |        |               |        |        |        | ●      | ●      | ●      |        |        | ●      |               |        |        |        |               |     |     |     |
|                                                                                                          |                  |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
| <br>Per sgrossatura   | DNMG 150408 KT   | 0.17-0.47           | 0.38-7.0   |        |        | ●             | ●      |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                          | 150608 KT        | 0.17-0.47           | 0.38-7.0   |        |        | ●             | ●      |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                          | 150412 KT        | 0.23-0.63           | 0.50-7.0   |        |        | ●             | ●      |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                          | 150612 KT        | 0.23-0.63           | 0.50-7.0   |        |        | ●             | ●      |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
| <br>Lav. Medie        | DNMG 150404 MC   | 0.10-0.30           | 0.5-3.5    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                          | 150604 MC        | 0.10-0.30           | 0.5-3.5    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                          | 150408 MC        | 0.12-0.35           | 0.7-3.5    |        |        |               |        |        |        |        | ●      |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                          | 150608 MC        | 0.12-0.35           | 0.7-3.5    |        |        |               |        |        |        | ●      | ●      |        |        |        | ●      | ●             |        | ●      |        |               |     |     |     |
|                                                                                                          | 150412 MC        | 0.15-0.35           | 1.0-3.5    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                          | 150612 MC        | 0.15-0.35           | 1.0-3.5    |        |        |               |        |        |        | ●      |        |        |        |        | ●      |               |        |        |        |               |     |     |     |
|                                                                                                          |                  |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                          |                  |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |

## Inserti Rombici Negativi a 55°



| Misura | Dimensioni (mm) |           |         |
|--------|-----------------|-----------|---------|
|        | d               | t         | r       |
| 11     | 9.52            | 4.76      | 0.8-1.2 |
| 13     | 11.11           | 5.56      | 0.4-1.2 |
| 15     | 12.7            | 4.76-6.35 | 0.4-1.2 |
|        |                 |           |         |
|        |                 |           |         |
|        |                 |           |         |
|        |                 |           |         |

| Inserto                                                                                                            | Descrizione      | Avanz.<br>(mm/giro) | ap<br>(mm) | Cermet |        | Rivestito CVD |        |        |        |        |        |        |        |        |        | Rivestito PVD |        |        |        | Non rivestito |     |     |     |
|--------------------------------------------------------------------------------------------------------------------|------------------|---------------------|------------|--------|--------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|---------------|-----|-----|-----|
|                                                                                                                    |                  |                     |            | PV3010 | CT3000 | TT7005        | TT7015 | TT7310 | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235 | TT5100 | TT7100        | TT5080 | TT8020 | TT9020 | TT9080        | P20 | K10 | K20 |
| <br><br>Lav. Medie                | DNMG 150404 ML   | 0.10-0.30           | 0.8-3.5    |        |        |               |        |        |        | ●      |        |        |        |        |        | ●             |        |        |        |               |     |     |     |
|                                                                                                                    | 150604 ML        | 0.10-0.30           | 0.8-3.5    |        |        |               |        |        |        | ●      | ●      |        |        |        |        | ●             |        |        |        |               |     | ●   |     |
|                                                                                                                    | 150408 ML        | 0.12-0.35           | 1.0-3.5    |        |        |               |        |        |        | ●      |        |        |        |        |        | ●             |        |        |        |               |     |     |     |
|                                                                                                                    | 150608 ML        | 0.12-0.35           | 1.0-3.5    |        |        |               |        |        |        | ●      | ●      |        | ●      |        |        | ●             | ●      |        |        |               |     | ●   |     |
|                                                                                                                    |                  |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
| <br><br>Lav. Medie                | DNMG 130504 MM   | 0.15-0.45           | 0.4-4.5    |        |        |               |        |        |        | ●      | ●      | ●      | ●      | ●      | ●      | ●             |        |        |        |               |     |     |     |
|                                                                                                                    | 130508 MM        | 0.20-0.50           | 0.5-4.5    |        |        |               |        |        |        | ●      | ●      | ●      | ●      | ●      | ●      | ●             |        |        |        |               |     |     |     |
|                                                                                                                    | 130512 MM        | 0.23-0.50           | 0.7-4.5    |        |        |               |        |        |        | ●      | ●      | ●      | ●      | ●      | ●      | ●             |        |        |        |               |     |     |     |
|                                                                                                                    |                  |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                                    |                  |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
| <br><b>OLD</b><br><br>Lav. Medie | DNMG 150404 MP   | 0.10-0.30           | 0.8-4.0    |        |        |               |        |        |        | ●      |        |        |        | ●      |        |               | ●      |        |        |               |     |     |     |
|                                                                                                                    | 150604 MP        | 0.10-0.30           | 0.8-4.0    |        |        |               |        |        |        |        | ●      |        |        | ●      |        | ●             | ●      |        |        |               |     |     |     |
|                                                                                                                    | 150408 MP        | 0.12-0.40           | 1.0-4.0    |        |        |               |        |        |        |        |        |        |        |        |        | ●             | ●      | ●      |        |               |     |     |     |
|                                                                                                                    | 150608 MP        | 0.12-0.40           | 1.0-4.0    |        |        |               |        |        |        | ●      | ●      |        | ●      | ●      | ●      | ●             | ●      | ●      |        | ●             |     |     |     |
|                                                                                                                    | 150612 MP ✓      | 0.15-0.40           | 1.0-4.0    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                                    |                  |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
| <br><br>Lav. Medie              | DNMG 130504 MT   | 0.10-0.35           | 0.8-4.5    |        |        |               |        |        |        | ●      | ●      | ●      |        |        |        | ●             |        |        |        |               |     |     |     |
|                                                                                                                    | 130508 MT        | 0.15-0.45           | 1.0-4.5    |        |        |               |        |        |        | ●      | ●      | ●      |        |        |        | ●             |        |        |        |               |     |     |     |
|                                                                                                                    | 130512 MT        | 0.20-0.55           | 1.2-4.5    |        |        |               |        |        |        | ●      | ●      | ●      |        |        |        | ●             |        |        |        |               |     |     |     |
|                                                                                                                    |                  |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                                    |                  |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
| <br><br>Lav. Medie              | DNMG 110408 MT * | 0.17-0.40           | 1.0-3.0    | ○      | ○      | ○             |        | ○      | ○      |        |        |        |        |        | ○      |               | ○      |        |        |               |     |     |     |
|                                                                                                                    | 110412 MT *      | 0.20-0.45           | 1.0-3.0    |        |        | ○             | ○      |        | ○      |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                                    | 150404 MT        | 0.15-0.40           | 0.8-4.0    | ●      |        | ●             | ○      | ●      | ●      |        |        |        |        |        | ●      |               |        |        |        |               |     |     |     |
|                                                                                                                    | 150604 MT        | 0.15-0.40           | 0.8-4.0    | ●      | ●      | ●             | ○      | ●      | ●      |        |        |        |        |        | ●      |               | ●      |        |        |               |     |     |     |
|                                                                                                                    | 150408 MT        | 0.17-0.50           | 1.0-4.0    | ●      |        | ●             | ○      | ●      | ●      |        |        | ●      | ●      |        | ●      |               | ●      | ●      |        |               |     |     |     |
|                                                                                                                    | 150608 MT        | 0.17-0.50           | 1.0-4.0    | ●      | ●      | ●             | ○      | ●      | ●      |        |        | ●      | ●      | ●      | ●      | ●             | ●      | ●      |        |               |     |     |     |
|                                                                                                                    | 150412 MT        | 0.20-0.50           | 1.3-4.0    |        |        |               |        | ●      | ●      |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                                    | 150612 MT        | 0.20-0.50           | 1.3-4.0    |        |        | ●             | ●      |        | ●      | ●      |        |        |        |        | ●      |               | ●      | ●      |        |               |     |     |     |
| <br><br>Lav. Medie              | DNMG 130504 PC   | 0.10-0.30           | 0.4-4.0    |        |        |               |        |        |        | ●      | ●      | ●      |        |        |        | ●             |        |        |        |               |     |     |     |
|                                                                                                                    | 130508 PC        | 0.15-0.40           | 0.5-4.0    |        |        |               |        |        |        | ●      | ●      | ●      |        |        |        | ●             |        |        |        |               |     |     |     |
|                                                                                                                    | 130512 PC        | 0.18-0.50           | 0.6-4.0    |        |        |               |        |        |        | ●      | ●      | ●      |        |        |        | ●             |        |        |        |               |     |     |     |
|                                                                                                                    |                  |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                                    |                  |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |

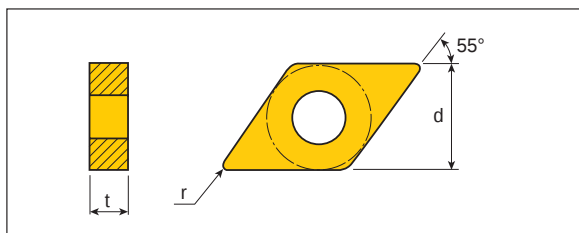
● : Standard ○ : Semi Standard  
 ✓ : Rompitruciolo vecchio tipo \* : Inserto con foro per vite



A43, A44, A49, A50, A55, A76, A77,  
 A103, A110, A112, A124, A125, A132,  
 A137, A138, A139, A151, A152, A162

# T-TURN DNMG DNUX

## Inserti Rombici Negativi a 55°



| Misura | Dimensioni (mm) |           |         |
|--------|-----------------|-----------|---------|
|        | d               | t         | r       |
| 11     | 9.52            | 4.76      | 0.8     |
| 13     | 11.11           | 5.56      | 0.4-0.8 |
| 15     | 12.7            | 4.76-6.35 | 0.4-1.6 |
|        |                 |           |         |
|        |                 |           |         |
|        |                 |           |         |

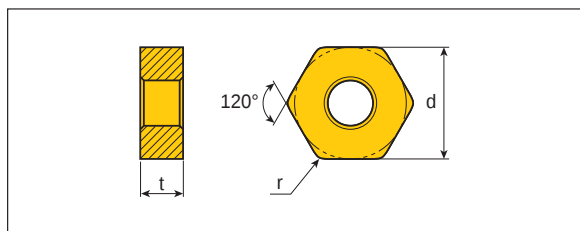
| Inserto                                                                                                                   | Descrizione      | Avanz.<br>(mm/giro) | ap<br>(mm) | Cermet |        | Rivestito CVD |        |        |        |        |        |        |        |        |        | Rivestito PVD |        |        |        | Non rivestito |     |     |     |  |
|---------------------------------------------------------------------------------------------------------------------------|------------------|---------------------|------------|--------|--------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|---------------|-----|-----|-----|--|
|                                                                                                                           |                  |                     |            | PV3010 | CT3000 | TT7005        | TT7015 | TT7310 | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235 | TT5100 | TT7100        | TT5080 | TT8020 | TT9020 | TT9080        | P20 | K10 | K20 |  |
| <br><br>Lav. Medie                       | DNMG 110408 PC * | 0.17-0.40           | 0.5-3.0    |        |        |               |        |        |        | ○      |        |        |        |        |        |               |        |        |        |               |     |     |     |  |
|                                                                                                                           | 150404 PC        | 0.10-0.40           | 0.4-4.0    |        |        |               |        |        |        | ●      | ●      |        |        |        |        |               |        |        |        |               |     |     |     |  |
|                                                                                                                           | 150604 PC        | 0.10-0.40           | 0.4-4.0    |        |        |               |        |        |        | ●      | ●      | ●      | ●      |        |        |               |        |        |        |               |     |     |     |  |
|                                                                                                                           | 150408 PC        | 0.15-0.50           | 0.5-4.0    |        |        |               |        |        |        | ●      | ●      |        |        |        |        |               |        |        |        |               |     |     |     |  |
|                                                                                                                           | 150608 PC        | 0.15-0.50           | 0.5-4.0    |        |        |               |        |        |        | ●      | ●      | ●      | ●      | ●      | ●      |               |        |        |        |               |     |     |     |  |
|                                                                                                                           | 150412 PC        | 0.17-0.55           | 0.6-4.0    |        |        |               |        |        |        | ●      | ●      |        |        |        |        |               |        |        |        |               |     |     |     |  |
|                                                                                                                           | 150612 PC        | 0.17-0.55           | 0.6-4.0    |        |        |               |        |        |        | ●      | ●      |        |        |        |        |               |        |        |        |               |     |     |     |  |
| <br><br>Per sgrossatura                  | DNMG 150408 RT   | 0.25-0.65           | 2.0-4.0    |        |        |               | ●      | ○      | ●      |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |
|                                                                                                                           | 150608 RT        | 0.25-0.65           | 2.0-4.0    |        |        | ●             | ●      | ○      | ●      | ●      |        |        |        | ●      |        |               |        |        |        |               |     |     |     |  |
|                                                                                                                           | 150412 RT        | 0.25-0.65           | 2.5-4.0    |        |        |               | ●      |        | ●      |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |
|                                                                                                                           | 150612 RT        | 0.25-0.65           | 2.5-4.0    |        |        | ●             | ●      | ○      | ●      |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |
|                                                                                                                           | 150616 RT        | 0.25-0.70           | 2.5-5.5    |        |        |               |        |        | ●      | ●      |        |        |        | ●      |        |               |        |        |        |               |     |     |     |  |
| <br><br>In figura destro<br>Lav. Medie  | DNMG 150404 L-VF | 0.10-0.35           | 0.7-4.5    |        |        |               |        |        |        | ●      |        |        |        |        |        |               |        |        |        |               |     |     |     |  |
|                                                                                                                           | 150404 R-VF      | 0.10-0.35           | 0.7-4.5    |        |        |               |        |        |        | ●      |        |        |        |        | ●      |               |        |        |        |               |     |     |     |  |
|                                                                                                                           | 150604 L-VF      | 0.10-0.35           | 0.7-4.5    |        |        |               |        |        |        | ●      | ●      |        |        |        | ●      |               |        |        |        |               |     |     |     |  |
|                                                                                                                           | 150604 R-VF      | 0.10-0.35           | 0.7-4.5    | ●      |        |               |        |        |        | ●      | ●      |        |        |        | ●      | ●             |        |        |        |               |     |     |     |  |
|                                                                                                                           | 150408 L-VF      | 0.12-0.45           | 1.0-4.5    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |
|                                                                                                                           | 150408 R-VF      | 0.12-0.45           | 1.0-4.5    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |
|                                                                                                                           | 150608 L-VF      | 0.12-0.45           | 1.0-4.5    |        |        |               |        |        |        | ●      | ●      |        |        |        | ●      | ●             |        |        |        |               |     |     |     |  |
| 150608 R-VF                                                                                                               | 0.12-0.45        | 1.0-4.5             | ●          |        |        |               |        |        | ●      | ●      |        |        |        |        |        |               |        |        |        |               |     |     |     |  |
| <br><br>Per finitura                   | DNMG 150408 WS   | 0.10-0.30           | 0.8-4.0    | ●      |        |               |        |        |        |        |        | ●      |        |        |        |               |        |        |        |               |     |     |     |  |
|                                                                                                                           | 150608 WS        | 0.10-0.30           | 0.8-4.0    |        |        |               |        |        |        | ●      |        |        |        |        |        |               |        |        |        |               |     |     |     |  |
|                                                                                                                           |                  |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |
| <br><br>Lav. Medie                     | DNMG 150412 WT   | 0.15-0.60           | 1.0-5.0    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |
|                                                                                                                           | 150612 WT        | 0.15-0.60           | 1.0-5.0    |        |        |               |        |        |        | ●      |        |        |        |        |        |               |        |        |        |               |     |     |     |  |
|                                                                                                                           |                  |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |
|                                                                                                                           |                  |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |
| <br><br>In figura destro<br>Lav. Medie | DNUX 130504 R11  | 0.15-0.35           | 1.5-5.0    |        |        |               |        |        |        | ●      | ●      |        | ●      | ●      |        |               |        |        | ●      |               |     |     |     |  |
|                                                                                                                           | 130504 L11       | 0.15-0.35           | 1.5-5.0    |        |        |               |        |        |        | ●      | ●      |        | ●      | ●      |        |               |        |        | ●      |               |     |     |     |  |
|                                                                                                                           | 130508 R11       | 0.21-0.45           | 2.0-5.0    |        |        |               |        |        |        | ●      | ●      |        | ●      | ●      |        |               |        |        | ●      |               |     |     |     |  |
|                                                                                                                           | 130508 L11       | 0.21-0.45           | 2.0-5.0    |        |        |               |        |        |        | ●      | ●      |        | ●      | ●      |        |               |        |        | ●      |               |     |     |     |  |
|                                                                                                                           |                  |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |

A43, A44, A49, A50, A55, A76, A77,  
A103, A110, A112, A124, A125, A132,  
A137, A138, A139, A151, A152, A162

\* : Inserto con foro per vite

● : Standard ○ : Semi Standard

## Inserti Negativi Esagonali a 120°



| Misura | Dimensioni (mm) |      |     |
|--------|-----------------|------|-----|
|        | d               | t    | r   |
| 05     | 12.7            | 4.76 | 0.8 |
| 10     | 19.05           | 6.35 | 1.2 |
|        |                 |      |     |
|        |                 |      |     |
|        |                 |      |     |
|        |                 |      |     |
|        |                 |      |     |

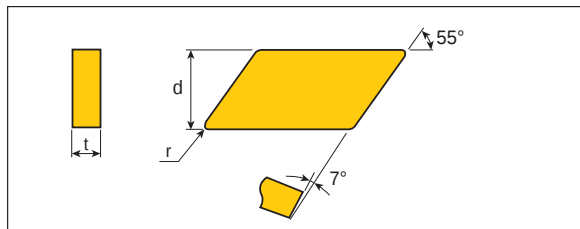
| Inserto                                                                           | Descrizione           | Avanz.<br>(mm/giro) | ap<br>(mm) | Cermet |        |        |        |        |        |        |        |        |        |        |        | Rivestito CVD |        |        |        | Rivestito PVD |     |     |     | Non rivestito |     |     |
|-----------------------------------------------------------------------------------|-----------------------|---------------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|---------------|-----|-----|-----|---------------|-----|-----|
|                                                                                   |                       |                     |            | PV3010 | CT3000 | TT7005 | TT7015 | TT7310 | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235 | TT5100 | TT7100        | TT5080 | TT8020 | TT9020 | TT9080        | P20 | K10 | K20 | P20           | K10 | K20 |
|  | <b>HNMG 050408 GU</b> | 0.15-0.60           | 0.5-3.5    |        |        | ●      | ●      | ○      | ●      |        |        |        |        |        | ●      |               |        |        |        |               |     |     |     |               |     |     |
|                                                                                   | <b>100612 GU</b>      | 0.25-0.70           | 1.0-5.0    |        |        |        |        | ○      |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |     |     |
| Lav. Medio                                                                        |                       |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |     |     |
|  | <b>HNMG 050408 SU</b> | 0.15-0.50           | 0.5-3.5    |        |        |        |        |        |        |        |        | ●      |        |        | ●      |               | ●      |        |        |               |     |     |     |               |     |     |
|                                                                                   | <b>100612 SU</b>      | 0.25-0.70           | 1.0-5.0    |        |        |        |        |        |        |        |        |        |        |        |        |               | ●      |        |        |               |     |     |     |               |     |     |
| Lav. Medio                                                                        |                       |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |     |     |

●: Standard ○: Semi Standard



A78, A153

## Inserti Rombici Negativi a 55°



| Misura | Dimensioni (mm) |      |         |
|--------|-----------------|------|---------|
|        | d               | t    | r       |
| 16     | 9.52            | 4.76 | 0.5-1.0 |
|        |                 |      |         |
|        |                 |      |         |
|        |                 |      |         |
|        |                 |      |         |
|        |                 |      |         |
|        |                 |      |         |

| Inserto                                                                             | Descrizione            | Avanz.<br>(mm/giro) | ap<br>(mm) | Cermet |        |        |        |        |        |        |        |        |        |        |        | Rivestito CVD |        |        |        | Rivestito PVD |     |     |     | Non rivestito |     |     |
|-------------------------------------------------------------------------------------|------------------------|---------------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|---------------|-----|-----|-----|---------------|-----|-----|
|                                                                                     |                        |                     |            | PV3010 | CT3000 | TT7005 | TT7015 | TT7310 | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235 | TT5100 | TT7100        | TT5080 | TT8020 | TT9020 | TT9080        | P20 | K10 | K20 | P20           | K10 | K20 |
|  | <b>KNUX 160405 L11</b> | 0.15-0.35           | 1.5-5.0    |        |        |        |        |        | ●      | ●      |        | ●      |        |        | ●      |               |        |        |        |               |     |     |     |               |     |     |
|                                                                                     | <b>160405 R11</b>      | 0.15-0.35           | 1.5-5.0    | ●      | ●      |        |        |        | ●      | ●      | ●      | ●      | ●      | ●      | ●      | ●             | ●      |        |        |               | ●   |     |     |               |     |     |
|                                                                                     | <b>160410 L11</b>      | 0.21-0.45           | 2.0-5.0    |        |        |        |        |        | ●      | ●      |        |        |        |        | ●      |               |        |        |        |               |     |     |     |               |     |     |
|                                                                                     | <b>160410 R11</b>      | 0.21-0.45           | 2.0-5.0    |        |        |        |        |        | ●      | ●      |        |        |        |        | ●      |               |        |        |        |               |     |     |     |               |     |     |
| In figura destro<br>Lav. Medio                                                      |                        |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |     |     |
|  | <b>KNUX 160405 L12</b> | 0.24-0.50           | 2.0-5.0    |        |        |        |        |        | ●      | ●      |        |        |        |        | ●      |               |        |        |        |               |     |     |     |               |     |     |
|                                                                                     | <b>160405 R12</b>      | 0.24-0.50           | 2.0-5.0    |        |        |        |        |        | ●      | ●      |        |        |        |        |        |               |        |        |        |               |     |     |     |               |     |     |
|                                                                                     | <b>160410 L12</b>      | 0.30-0.60           | 2.5-6.0    |        |        |        |        |        | ●      |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |     |     |
|                                                                                     | <b>160410 R12</b>      | 0.30-0.60           | 2.5-6.0    |        |        |        |        |        | ●      |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |     |     |
| In figura destro<br>Lav. Medio                                                      |                        |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |     |     |

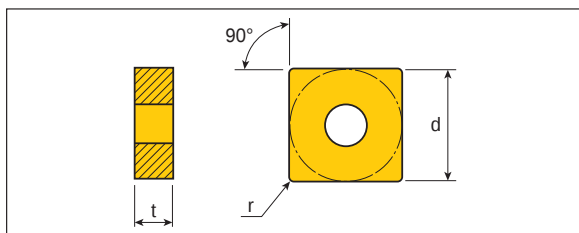
●: Standard ○: Semi Standard



A38



## Inserti Quadri Negativi



| Misura | Dimensioni (mm) |           |         |
|--------|-----------------|-----------|---------|
|        | d               | t         | r       |
| 09     | 9.52            | 3.18      | 0.4-0.8 |
| 12     | 12.7            | 4.76      | 0.4-1.6 |
| 19     | 19.05           | 6.35      | 1.2-1.6 |
| 25     | 25.4            | 7.94-9.52 | 1.6-2.4 |
| 31     | 31.75           | 9.52      | 2.4     |
|        |                 |           |         |
|        |                 |           |         |

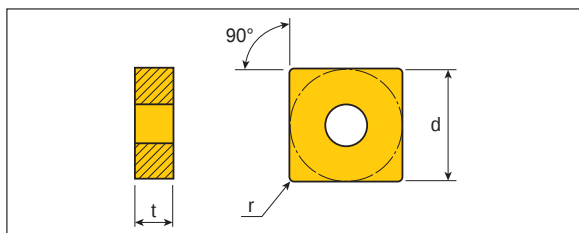
| Inserto                                                                                                             | Descrizione            | Avanz.<br>(mm/giro) | ap<br>(mm) | Cermet |        | Rivestito CVD |        |        |        |        |        |        |        |        |        | Rivestito PVD |        |        |        | Non rivestito |     |     |     |  |  |
|---------------------------------------------------------------------------------------------------------------------|------------------------|---------------------|------------|--------|--------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|---------------|-----|-----|-----|--|--|
|                                                                                                                     |                        |                     |            | PV3010 | CT3000 | TT7005        | TT7015 | TT7310 | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235 | TT5100 | TT7100        | TT5080 | TT8020 | TT9020 | TT9080        | P20 | K10 | K20 |  |  |
| <br>In figura destro<br>Lav. Medie | SNGG 120404 L          | 0.15-0.35           | 1.0-4.0    | ●      |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |
|                                                                                                                     | 120404 R               | 0.12-0.35           | 1.0-4.0    | ●      |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |
|                                                                                                                     | 120408 L               | 0.15-0.40           | 1.0-4.0    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |
|                                                                                                                     | 120408 R               | 0.15-0.35           | 1.0-4.0    | ●      |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        | ●             |     |     |     |  |  |
|                                                                                                                     |                        |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |
|                                                                                                                     |                        |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |
| <br>Per sgrossatura                | SNMA 120408            | 0.15-0.70           | 1.0-6.0    |        |        | ●             | ●      | ○      |        |        |        |        |        |        |        |               |        |        |        |               |     | ●   |     |  |  |
|                                                                                                                     | 120412                 | 0.20-0.80           | 1.5-6.0    |        |        | ●             | ●      | ○      |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |
|                                                                                                                     | 120416                 | 0.30-1.00           | 2.0-6.0    |        |        | ●             | ●      | ○      |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |
|                                                                                                                     | 150612                 | 0.20-0.80           | 2.0-8.0    |        |        | ●             |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |
|                                                                                                                     | 150616                 | 0.30-1.00           | 2.0-8.0    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |
|                                                                                                                     | 190612                 | 0.20-0.80           | 2.0-10.0   |        |        | ●             | ●      | ○      |        |        |        |        |        |        |        |               |        |        |        |               |     | ●   |     |  |  |
|                                                                                                                     | 190616                 | 0.30-1.00           | 2.0-10.0   |        |        |               | ●      | ○      |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |
|                                                                                                                     | 250716                 | 0.30-1.00           | 3.0-13.0   |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |
|                                                                                                                     | 250724                 | 0.40-1.20           | 3.0-13.0   |        |        |               | ●      | ○      |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |
| <br>Per sgrossatura              | TOPDUTY SNMD 250924 HD |                     |            |        |        |               |        |        | ●      | ●      | ●      |        |        |        |        |               |        |        |        |               |     |     |     |  |  |
|                                                                                                                     | Per sgrossatura        | 0.55-1.50           | 4.0-15.0   |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |
|                                                                                                                     | Per finitura           | 0.40-0.80           | 2.0-5.0    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |
|                                                                                                                     |                        |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |
|                                                                                                                     |                        |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |
|                                                                                                                     |                        |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |
| <br>Per finitura                 | TOPDUTY SNMD 310924 HD |                     |            |        |        |               |        |        | ●      | ●      |        |        |        | ●      |        |               |        |        |        |               |     |     |     |  |  |
|                                                                                                                     | Per sgrossatura        | 0.60-1.50           | 7.0-25.0   |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |
|                                                                                                                     | Per finitura           | 0.40-0.80           | 2.0-5.0    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |
|                                                                                                                     |                        |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |
|                                                                                                                     |                        |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |
|                                                                                                                     |                        |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |
| <br>Lav. Pesanti                 |                        |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |
|                                                                                                                     |                        |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |
|                                                                                                                     |                        |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |
|                                                                                                                     |                        |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |
|                                                                                                                     |                        |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |
|                                                                                                                     |                        |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |
| <br>Per finitura                 |                        |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |
|                                                                                                                     |                        |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |
|                                                                                                                     |                        |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |
|                                                                                                                     |                        |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |

● : Standard ○ : Semi Standard



A58, A59, A60, A79, A80,  
A98, A113, A126, A133,  
A154, A177

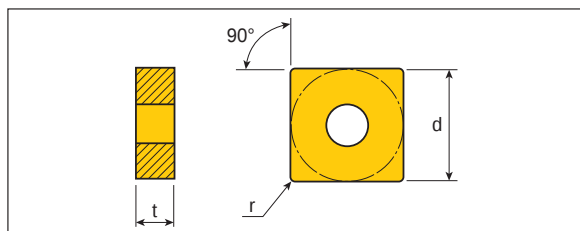
## Inserti Quadri Negativi



| Misura | Dimensioni (mm) |      |     |
|--------|-----------------|------|-----|
|        | d               | t    | r   |
| 19     | 19.05           | 6.35 | 2.4 |
| 25     | 25.4            | 9.52 | 2.4 |
| 31     | 31.75           | 9.52 | 2.4 |
|        |                 |      |     |
|        |                 |      |     |
|        |                 |      |     |
|        |                 |      |     |

| Inserto                                                                                                                | Descrizione                                                                                                              | Avanz.<br>(mm/giro)   | ap<br>(mm) | Cermet |        |        |        |        |        |        |        |        |        |        |        | Rivestito CVD |        |        |        | Rivestito PVD |     |     |     | Non rivestito |  |  |
|------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-----------------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|---------------|-----|-----|-----|---------------|--|--|
|                                                                                                                        |                                                                                                                          |                       |            | PV3010 | CT3000 | TT7005 | TT7015 | TT7310 | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235 | TT5100 | TT7100        | TT5080 | TT8020 | TT9020 | TT9080        | P20 | K10 | K20 |               |  |  |
| <b>TOPDUTY</b><br><br>Per sgrossatura | <b>SNMD 190624 HT</b>                                                                                                    |                       |            |        |        |        |        |        | ●      | ●      |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                        | Per sgrossatura                                                                                                          | 0.55-1.20             | 4.0-9.0    |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                        | Per finitura                                                                                                             | 0.40-0.80             | 2.0-5.0    |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                        | <b>250924 HT</b>                                                                                                         |                       |            |        |        |        |        |        | ●      | ●      |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                        | Per sgrossatura                                                                                                          | 0.55-1.30             | 5.0-12.0   |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                        | Per finitura                                                                                                             | 0.40-0.80             | 2.0-5.0    |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
| <b>TOPDUTY</b><br><br>Lav. Pesanti    | <b>SNMD 310924 HT</b>                                                                                                    |                       |            |        |        |        |        |        | ●      | ●      |        |        |        |        |        | ●             |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                        | Per sgrossatura                                                                                                          | 0.50-1.40             | 6.0-22.0   |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                        | Per finitura                                                                                                             | 0.40-0.80             | 2.0-5.0    |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                        | <br>Per finitura                      |                       |            |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                        | <b>TOPDUTY</b><br><br>Per sgrossatura | <b>SNMD 190624 HY</b> |            |        |        |        |        |        | ●      | ●      |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                        | Per sgrossatura                                                                                                          | 0.50-1.10             | 4.0-12.0   |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
| <b>TOPDUTY</b><br><br>Per finitura  | <b>250924 HY</b>                                                                                                         |                       |            |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                        | Per sgrossatura                                                                                                          | 0.55-1.50             | 4.0-15.0   |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                        | Per finitura                                                                                                             | 0.40-0.80             | 2.0-5.0    |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                        | <b>TOPDUTY</b><br><br>Per sgrossatura | <b>SNMD 250924 HZ</b> |            |        |        |        |        |        | ●      | ●      | ●      |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                        | Per sgrossatura                                                                                                          | 0.55-1.50             | 4.0-15.0   |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                                        | Per finitura                                                                                                             | 0.40-0.80             | 2.0-5.0    |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |

## Inserti Quadri Negativi



| Misura | Dimensioni (mm) |           |         |
|--------|-----------------|-----------|---------|
|        | d               | t         | r       |
| 09     | 9.52            | 4.76      | 0.4-1.2 |
| 12     | 12.7            | 4.76      | 0.4-1.6 |
| 15     | 15.88           | 6.35      | 0.8-1.6 |
| 19     | 19.05           | 6.35      | 0.4-1.6 |
| 25     | 25.4            | 7.94-9.52 | 1.6-2.4 |
|        |                 |           |         |
|        |                 |           |         |

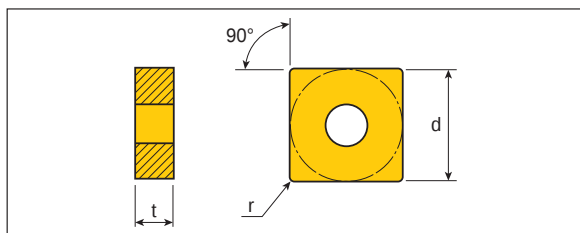
| Inserto                                                                                             | Descrizione    | Avanz.<br>(mm/giro) | ap<br>(mm) | Cermet |        | Rivestito CVD |        |        |        |        |        |        |        |        |        | Rivestito PVD |        |        | Non rivestito |        |     |     |
|-----------------------------------------------------------------------------------------------------|----------------|---------------------|------------|--------|--------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|---------------|--------|-----|-----|
|                                                                                                     |                |                     |            | PV3010 | CT3000 | TT7005        | TT7015 | TT7310 | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235 | TT5100 | TT7100        | TT5080 | TT8020 | TT9020        | TT9080 | P20 | K10 |
| <br>Lav. Medie     | SNMG 090404    | 0.10-0.45           | 0.5-4.0    |        |        | ●             | ●      |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
|                                                                                                     | 090408         | 0.10-0.50           | 0.5-4.0    |        |        | ●             | ●      |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
|                                                                                                     | 090412         | 0.10-0.55           | 0.5-4.0    |        |        | ●             | ●      |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
|                                                                                                     |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
| <br>Lav. Medie     | SNMG 120404    | 0.17-0.45           | 1.0-5.0    |        |        |               |        |        | ●      | ●      |        |        |        | ●      |        |               |        |        |               |        |     |     |
|                                                                                                     | 120408         | 0.23-0.60           | 1.5-5.0    | ●      |        | ●             | ●      | ○      | ●      | ●      | ●      |        |        | ●      |        |               |        |        |               | ●      |     |     |
|                                                                                                     | 120412         | 0.25-0.60           | 2.0-5.0    |        |        |               | ●      | ○      |        | ●      |        |        |        | ●      |        |               |        |        |               |        |     |     |
|                                                                                                     | 120416         | 0.35-0.70           | 2.0-5.0    |        |        |               |        |        |        | ●      |        |        |        | ●      |        |               |        |        |               |        |     |     |
|                                                                                                     | 150608         | 0.25-0.60           | 1.5-6.0    |        |        |               |        |        |        | ●      |        |        |        | ●      |        |               |        |        |               |        |     |     |
|                                                                                                     | 150612         | 0.25-0.60           | 2.0-6.0    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
|                                                                                                     | 150616         | 0.35-0.70           | 2.0-6.0    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
|                                                                                                     | 190604         | 0.17-0.45           | 3.0-8.0    |        |        |               |        |        |        | ●      |        |        |        |        |        |               |        |        |               |        |     |     |
|                                                                                                     | 190608         | 0.25-0.60           | 3.0-8.0    |        |        | ●             |        | ○      | ●      | ●      |        |        |        | ●      |        | ●             |        |        |               |        |     |     |
|                                                                                                     | 190612         | 0.30-0.60           | 3.0-8.0    |        |        | ●             | ●      | ○      | ●      | ●      | ●      |        |        | ●      |        |               |        |        |               |        |     |     |
|                                                                                                     | 190616         | 0.35-0.70           | 3.0-8.0    |        |        |               |        |        |        | ●      | ●      | ●      |        | ●      |        |               |        |        |               |        |     |     |
|                                                                                                     | 250716         | 0.35-0.70           | 4.0-12.0   |        |        |               |        |        |        | ●      | ●      |        |        | ●      |        |               |        |        |               |        |     |     |
|                                                                                                     | 250724         | 0.50-1.00           | 5.0-12.0   |        |        |               |        |        |        | ●      | ●      |        |        | ●      |        |               |        |        |               |        |     |     |
|                                                                                                     | 250924         | 0.50-1.00           | 5.0-12.0   |        |        |               |        |        |        |        | ●      |        |        |        |        |               |        |        |               |        |     |     |
|                                                                                                     |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
| <br>Per finitura | SNMG 090404 EA | 0.05-0.30           | 0.13-1.5   |        |        |               |        |        |        |        |        | ●      | ●      | ●      |        | ●             |        | ●      |               |        |     |     |
|                                                                                                     | 090408 EA      | 0.07-0.40           | 0.15-1.5   |        |        |               |        |        |        |        |        | ●      | ●      | ●      |        | ●             |        | ●      |               |        |     |     |
|                                                                                                     |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
|                                                                                                     |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
| <br>Per finitura | SNMG 120404 EA | 0.05-0.20           | 0.1-1.5    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
|                                                                                                     | 120408 EA      | 0.10-0.40           | 0.1-1.5    |        |        |               |        |        |        |        |        |        | ●      |        |        |               |        |        |               |        |     |     |
|                                                                                                     |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
|                                                                                                     |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
| <br>Lav. Medie   | SNMG 090408 EM | 0.13-0.40           | 0.5-4.0    |        |        |               |        |        |        |        |        | ●      | ●      | ●      |        | ●             |        | ●      |               |        |     |     |
|                                                                                                     | 090412 EM      | 0.15-0.40           | 0.7-4.0    |        |        |               |        |        |        |        |        | ●      | ●      | ●      |        | ●             |        | ●      |               |        |     |     |
|                                                                                                     |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
|                                                                                                     |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |

● : Standard ○ : Semi Standard



A45, A46, A58, A59, A60, A79,  
A80, A98, A111, A113, A126,  
A133, A154, A174, A177

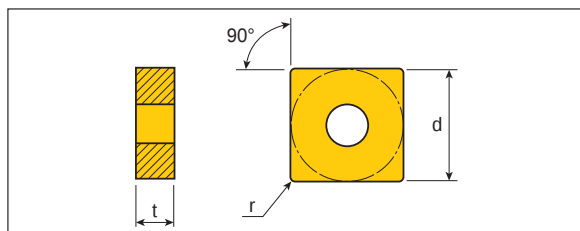
## Inserti Quadri Negativi



| Misura | Dimensioni (mm) |      |         |
|--------|-----------------|------|---------|
|        | d               | t    | r       |
| 09     | 9.52            | 4.76 | 0.4-1.2 |
| 12     | 12.7            | 4.76 | 0.4-1.2 |
| 15     | 15.88           | 6.35 | 1.2-1.6 |
| 19     | 19.05           | 6.35 | 0.8-1.6 |
|        |                 |      |         |
|        |                 |      |         |

| Inserto                                                                                                | Descrizione      | Avanz.<br>(mm/giro) | ap<br>(mm) | Cermet |        |        |        |        |        |        |        |        |        |        |        | Rivestito CVD |        |        |        |        |     | Rivestito PVD |     |  |  | Non rivestito |  |  |
|--------------------------------------------------------------------------------------------------------|------------------|---------------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|--------|-----|---------------|-----|--|--|---------------|--|--|
|                                                                                                        |                  |                     |            | PV3010 | CT3000 | TT7005 | TT7015 | TT7310 | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235 | TT5100 | TT7100        | TT5080 | TT8020 | TT9020 | TT9080 | P20 | K10           | K20 |  |  |               |  |  |
| <br>Lav. Medie        | SNMG 120408 EM   | 0.13-0.50           | 0.8-5.0    |        |        |        |        |        |        |        |        |        |        | ●      | ●      |               | ●      |        | ●      |        |     |               |     |  |  |               |  |  |
|                                                                                                        | 120412 EM        | 0.15-0.55           | 0.8-5.0    |        |        |        |        |        |        |        |        |        |        |        |        |               | ●      |        | ●      |        |     |               |     |  |  |               |  |  |
|                                                                                                        | 150612 EM        | 0.15-0.55           | 0.8-6.5    |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |     |               |     |  |  |               |  |  |
|                                                                                                        | 150616 EM        | 0.17-0.60           | 0.8-6.5    |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |     |               |     |  |  |               |  |  |
|                                                                                                        | 190612 EM        | 0.15-0.55           | 0.8-8.0    |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |     |               |     |  |  |               |  |  |
|                                                                                                        | 190616 EM        | 0.17-0.60           | 0.8-8.0    |        |        |        |        |        |        |        |        |        |        |        |        |               |        | ●      |        |        |     |               |     |  |  |               |  |  |
| <br>Per sgrossatura   | SNMG 120408 ET   | 0.25-0.70           | 2.0-7.0    |        |        |        |        |        |        |        |        |        |        |        |        |               | ●      |        | ●      |        |     |               |     |  |  |               |  |  |
|                                                                                                        | 120412 ET        | 0.30-0.70           | 2.0-7.0    |        |        |        |        |        |        |        |        |        |        |        |        |               | ●      |        |        |        |     |               |     |  |  |               |  |  |
|                                                                                                        | 190608 ET        | 0.30-0.75           | 3.0-9.0    |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |     |               |     |  |  |               |  |  |
|                                                                                                        | 190612 ET        | 0.35-0.75           | 3.0-9.0    |        |        |        |        |        |        |        |        |        |        |        | ●      |               |        | ●      |        | ●      |     |               |     |  |  |               |  |  |
| <br>Per finitura     | SNMG 120404 FC   | 0.05-0.30           | 0.2-2.5    |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |     |               |     |  |  |               |  |  |
|                                                                                                        | 120408 FC        | 0.08-0.35           | 0.2-2.5    |        |        |        |        |        |        | ●      |        |        |        |        |        |               |        |        |        |        |     |               |     |  |  |               |  |  |
|                                                                                                        | 120412 FC        | 0.10-0.40           | 0.3-2.5    |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |     |               |     |  |  |               |  |  |
|                                                                                                        |                  |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |     |               |     |  |  |               |  |  |
| <br>Per finitura    | SNMG 090404 FG   | 0.07-0.30           | 0.2-2.0    |        |        |        |        |        |        | ●      | ●      |        |        |        |        | ●             |        |        |        |        |     |               |     |  |  |               |  |  |
|                                                                                                        | 090408 FG        | 0.10-0.35           | 0.5-2.0    |        |        |        |        |        |        | ●      | ●      |        |        |        |        | ●             |        |        |        |        |     |               |     |  |  |               |  |  |
|                                                                                                        | 090412 FG        | 0.15-0.40           | 0.5-2.0    |        |        |        |        |        |        | ●      | ●      |        |        |        |        | ●             |        |        |        |        |     |               |     |  |  |               |  |  |
|                                                                                                        |                  |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |     |               |     |  |  |               |  |  |
| <br>Per finitura    | SNMG 120404 FG ✓ | 0.07-0.20           | 0.5-3.0    |        | ●      |        |        |        |        | ●      |        |        |        |        |        |               | ●      |        |        |        |     |               |     |  |  |               |  |  |
|                                                                                                        | 120408 FG ✓      | 0.10-0.25           | 0.7-3.0    |        | ●      | ●      |        |        |        | ●      | ●      |        |        |        |        |               |        |        |        |        |     |               |     |  |  |               |  |  |
|                                                                                                        |                  |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |     |               |     |  |  |               |  |  |
|                                                                                                        |                  |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |     |               |     |  |  |               |  |  |
| <br>Per finitura    | SNMG 090404 FM   | 0.07-0.30           | 0.25-2.0   |        | ●      |        |        |        |        | ●      | ●      | ●      |        |        |        | ●             |        |        |        |        |     |               |     |  |  |               |  |  |
|                                                                                                        | 090408 FM        | 0.10-0.35           | 0.3-2.0    |        | ●      |        |        |        |        | ●      | ●      | ●      |        |        |        | ●             |        |        |        |        |     |               |     |  |  |               |  |  |
|                                                                                                        | 090412 FM        | 0.15-0.40           | 0.35-2.0   |        | ●      |        |        |        |        | ●      | ●      | ●      |        |        |        | ●             |        |        |        |        |     |               |     |  |  |               |  |  |
|                                                                                                        |                  |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |     |               |     |  |  |               |  |  |
| <br>Per sgrossatura | SNMG 120408 KT   | 0.19-0.53           | 0.38-7.0   |        |        | ●      | ●      |        |        |        |        |        |        |        |        |               |        |        |        |        |     |               |     |  |  |               |  |  |
|                                                                                                        | 120412 KT        | 0.28-0.70           | 0.50-7.0   |        |        | ●      | ●      |        |        |        |        |        |        |        |        |               |        |        |        |        |     |               |     |  |  |               |  |  |
|                                                                                                        |                  |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |     |               |     |  |  |               |  |  |
|                                                                                                        |                  |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |     |               |     |  |  |               |  |  |

## Inserti Quadri Negativi



| Misura | Dimensioni (mm) |      |         |
|--------|-----------------|------|---------|
|        | d               | t    | r       |
| 09     | 9.52            | 4.76 | 0.4-1.2 |
| 12     | 12.7            | 4.76 | 0.4-1.2 |
| 15     | 15.88           | 6.35 | 0.8-1.2 |
| 19     | 19.05           | 6.35 | 0.8-1.2 |
|        |                 |      |         |
|        |                 |      |         |

| Inserto                                                                                                                                                                                  | Descrizione      | Avanz.<br>(mm/giro) | ap<br>(mm) | Cermet           |        | Rivestito CVD |        |        |        |        |        |        |        |        |        | Rivestito PVD |        |        |        | Non rivestito |     |     |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------|------------|------------------|--------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|---------------|-----|-----|--|
|                                                                                                                                                                                          |                  |                     |            | PV3010<br>CT3000 | TT7005 | TT7015        | TT7310 | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235 | TT5100 | TT7100 | TT5080        | TT8020 | TT9020 | TT9080 | P20           | K10 | K20 |  |
| <br>Lav. Medie                                                                                          | SNMG 120408 MC   | 0.12-0.35           | 0.7-3.5    |                  |        |               |        |        | ●      | ●      |        |        |        | ●      |        | ●             |        |        |        |               |     |     |  |
|                                                                                                                                                                                          | 120412 MC        | 0.15-0.40           | 0.7-3.5    |                  |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |  |
|                                                                                                                                                                                          |                  |                     |            |                  |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |  |
| <br>Lav. Medie                                                                                          | SNMG 120408 ML   | 0.12-0.35           | 1.0-3.5    |                  |        |               |        |        | ●      | ●      |        |        |        | ●      |        | ●             |        |        |        |               |     | ●   |  |
|                                                                                                                                                                                          | 120412 ML        | 0.15-0.35           | 1.0-3.5    |                  |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |  |
|                                                                                                                                                                                          |                  |                     |            |                  |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |  |
| <br>Lav. Medie                                                                                          | SNMG 090404 MM   | 0.15-0.45           | 0.4-4.0    |                  |        |               |        |        | ●      | ●      | ●      | ●      | ●      | ●      | ●      |               |        |        |        |               |     |     |  |
|                                                                                                                                                                                          | 090408 MM        | 0.20-0.50           | 0.5-4.0    |                  |        |               |        |        | ●      | ●      | ●      | ●      | ●      | ●      | ●      |               |        |        |        |               |     |     |  |
|                                                                                                                                                                                          | 090412 MM        | 0.23-0.50           | 0.7-4.0    |                  |        |               |        |        | ●      | ●      | ●      | ●      | ●      | ●      | ●      |               |        |        |        |               |     |     |  |
|                                                                                                                                                                                          |                  |                     |            |                  |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |  |
| <br><br>Lav. Medie | SNMG 120404 MP ✓ | 0.10-0.30           | 0.8-4.0    |                  |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |  |
|                                                                                                                                                                                          | 120408 MP        | 0.12-0.40           | 1.0-4.0    |                  |        |               |        |        | ●      | ●      |        |        | ●      | ●      |        | ●             | ●      |        | ●      |               |     |     |  |
|                                                                                                                                                                                          | 120412 MP        | 0.15-0.40           | 1.3-4.0    |                  |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |  |
|                                                                                                                                                                                          | 150608 MP        | 0.25-0.60           | 1.5-6.0    |                  |        |               |        |        | ●      |        |        |        |        |        |        |               |        |        |        |               |     |     |  |
|                                                                                                                                                                                          |                  |                     |            |                  |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |  |
| <br>Lav. Medie                                                                                        | SNMG 090404 MT   | 0.10-0.35           | 0.8-4.0    |                  |        |               |        |        | ●      | ●      | ●      |        |        |        | ●      |               |        |        |        |               |     |     |  |
|                                                                                                                                                                                          | 090408 MT        | 0.15-0.45           | 1.0-4.0    |                  |        |               |        |        | ●      | ●      | ●      |        |        |        | ●      |               |        |        |        |               |     |     |  |
|                                                                                                                                                                                          | 090412 MT        | 0.20-0.55           | 1.2-4.0    |                  |        |               |        |        | ●      | ●      | ●      |        |        |        | ●      |               |        |        |        |               |     |     |  |
|                                                                                                                                                                                          |                  |                     |            |                  |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |  |
| <br><br>Lav. Medie | SNMG 120404 MT ✓ | 0.12-0.40           | 1.0-5.0    | ●                |        |               |        |        | ●      |        |        |        |        | ●      |        |               |        |        |        |               |     |     |  |
|                                                                                                                                                                                          | 120408 MT        | 0.17-0.55           | 1.2-5.0    | ●                | ●      | ●             | ○      | ●      | ●      |        |        | ●      | ●      | ●      |        | ●             | ●      |        |        |               |     |     |  |
|                                                                                                                                                                                          | 120412 MT ✓      | 0.20-0.55           | 1.5-5.0    |                  | ●      |               |        | ●      | ●      |        |        | ●      | ●      | ●      |        | ●             | ●      |        |        |               |     |     |  |
|                                                                                                                                                                                          | 150612 MT ✓      | 0.30-0.65           | 2.0-7.0    |                  |        |               |        |        | ●      | ●      |        |        |        |        |        |               |        |        |        |               |     |     |  |
|                                                                                                                                                                                          | 190608 MT        | 0.17-0.55           | 3.0-8.0    |                  |        |               |        |        | ●      |        |        | ●      |        |        |        |               |        |        |        |               |     |     |  |
|                                                                                                                                                                                          | 190612 MT        | 0.20-0.55           | 3.0-8.0    |                  |        |               |        |        | ●      |        |        | ●      | ●      | ●      |        | ●             |        |        |        |               |     |     |  |
|                                                                                                                                                                                          |                  |                     |            |                  |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |  |
|                                                                                                                                                                                          |                  |                     |            |                  |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |  |

● : Standard ○ : Semi Standard

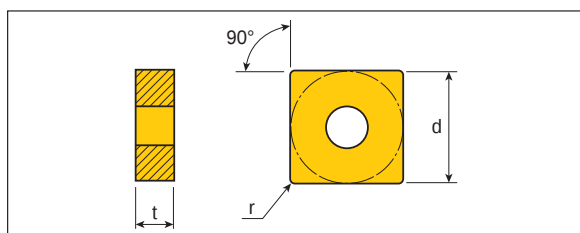
✓ : Rompitrucciolo vecchio tipo



A45, A46, A58, A59, A60, A79,  
A80, A98, A111, A113, A126,  
A133, A154, A174, A177



## Inserti Quadri Negativi



| Misura | Dimensioni (mm) |           |         |
|--------|-----------------|-----------|---------|
|        | d               | t         | r       |
| 12     | 12.7            | 4.76      | 0.8-1.2 |
| 15     | 15.88           | 6.35      | 1.2-1.6 |
| 19     | 19.05           | 6.35      | 0.8-2.4 |
| 25     | 25.4            | 7.94-9.52 | 1.6-2.4 |
|        |                 |           |         |
|        |                 |           |         |

| Inserto                                                                                                                                                                                                   | Descrizione    | Avanz.<br>(mm/giro) | ap<br>(mm) | Cermet |        | Rivestito CVD |        |        |        |        |        |        |        |        |        | Rivestito PVD |        |        |        | Non rivestito |     |     |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------|------------|--------|--------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|---------------|-----|-----|-----|
|                                                                                                                                                                                                           |                |                     |            | PV3010 | CT3000 | TT7005        | TT7015 | TT7310 | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235 | TT5100 | TT7100        | TT5080 | TT8020 | TT9020 | TT9080        | P20 | K10 | K20 |
| <br><br>Lav. Pesanti                                                                                                     | SNMM 190624 HY | 0.50-1.10           | 4.0-12.0   |        |        |               |        |        |        | ●      | ●      |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                                                                                                                           | 250924 HY      | 0.55-1.50           | 4.0-15.0   |        |        |               |        |        |        | ●      | ●      |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                                                                                                                           |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                                                                                                                           |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
| <br><br>Lav. Pesanti                                                                                                     | SNMM 250924 HZ | 0.55-1.50           | 4.0-15.0   |        |        |               |        |        |        | ●      | ●      |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                                                                                                                           |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                                                                                                                           |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                                                                                                                           |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
| <br>RH(N)<br><br>RH<br>Per sgrassatura | SNMM 120408 RH | 0.30-0.70           | 2.5-6.0    |        |        |               |        |        |        | ●      |        |        |        |        | ●      |               |        |        |        |               |     |     |     |
|                                                                                                                                                                                                           | 120408 RH(N)   | 0.25-0.60           | 2.5-5.0    |        |        |               |        |        |        |        |        |        |        |        |        | ●             |        |        |        |               |     |     |     |
|                                                                                                                                                                                                           | 120412 RH      | 0.30-0.80           | 2.5-6.0    |        |        |               |        |        |        | ●      |        |        |        |        |        | ●             |        |        |        |               |     |     |     |
|                                                                                                                                                                                                           | 120412 RH(N)   | 0.30-0.70           | 3.0-5.0    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                                                                                                                           | 150612 RH      | 0.30-0.80           | 3.0-7.0    |        |        |               |        |        |        | ●      |        |        |        |        |        | ●             |        |        |        |               |     |     |     |
|                                                                                                                                                                                                           | 190608 RH *    | 0.30-0.70           | 3.0-9.0    |        |        |               |        |        |        | ●      |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                                                                                                                           | 190612 RH      | 0.30-0.80           | 4.0-9.0    |        |        |               |        |        |        | ●      | ●      |        |        |        |        |               | ●      |        |        |               |     |     |     |
|                                                                                                                                                                                                           | 190612 RH(N)   | 0.30-0.70           | 3.0-8.0    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                                                                                                                           | 190616 RH      | 0.45-1.00           | 4.0-9.0    |        |        |               |        |        |        | ●      |        | ●      |        |        |        | ●             |        | ●      |        |               |     |     |     |
|                                                                                                                                                                                                           | 190616 RH(N)   | 0.40-0.90           | 3.0-8.0    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                                                                                                                           | 190624 RH      | 0.55-1.20           | 4.0-9.0    |        |        |               |        |        |        | ●      |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                                                                                                                           | 250716 RH *    | 0.55-1.00           | 5.0-12.0   |        |        |               |        |        |        | ●      |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                                                                                                                           | 250724 RH *    | 0.55-1.20           | 5.0-12.0   |        |        |               |        |        |        | ●      | ●      |        |        |        |        | ●             |        |        |        |               |     |     |     |
|                                                                                                                                                                                                           | 250924 RH *    | 0.55-1.20           | 5.0-12.0   |        |        |               |        |        |        | ●      |        |        |        |        |        |               |        |        |        |               |     |     |     |
| <br>Per sgrassatura                                                                                                    | SNMM 120408 RX | 0.20-0.55           | 0.7-7.0    |        |        |               |        |        |        | ●      | ●      | ●      |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                                                                                                                           | 120412 RX      | 0.25-0.70           | 1.0-7.0    |        |        |               |        |        |        | ●      | ●      | ●      |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                                                                                                                           | 150612 RX      | 0.25-0.70           | 1.0-9.0    |        |        |               |        |        |        | ●      | ●      | ●      |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                                                                                                                           | 190612 RX      | 0.25-0.70           | 1.0-10.0   |        |        |               |        |        |        | ●      | ●      |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                                                                                                                           | 190616 RX      | 0.30-0.90           | 1.5-10.0   |        |        |               |        |        |        |        | ●      |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                                                                                                                           | 190624 RX      | 0.35-1.10           | 2.0-10.0   |        |        |               |        |        |        |        | ●      |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                                                                                                                           | 250724 RX      | 0.35-1.20           | 2.0-12.0   |        |        |               |        |        |        | ●      |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                                                                                                                           | 250924 RX      | 0.35-1.20           | 2.0-12.0   |        |        |               |        |        |        | ●      | ●      |        |        |        |        |               |        |        |        |               |     |     |     |
| <br>Lav. Medio-Pesante                                                                                                 | SNMX 150712 HB | 0.30-0.80           | 1.5-8.0    |        |        |               |        |        |        | ●      | ●      |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                                                                                                                           | 150716 HB      | 0.30-0.80           | 1.5-8.0    |        |        |               |        |        |        | ●      | ●      |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                                                                                                                           |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                                                                                                                           |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |

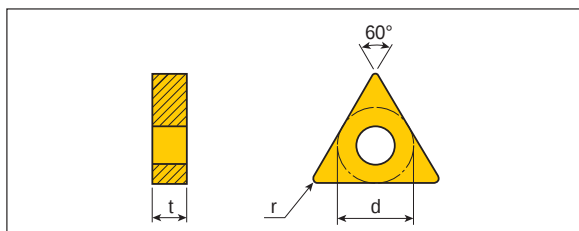
● : Standard ○ : Semi Standard

\* : La forma del Rompitrucciolo non corrisponde alla figura



A45, A46, A58, A59, A60,  
A79, A80, A98, A113,  
A126, A133, A154, A177

## Inserti Triangolari Negativi

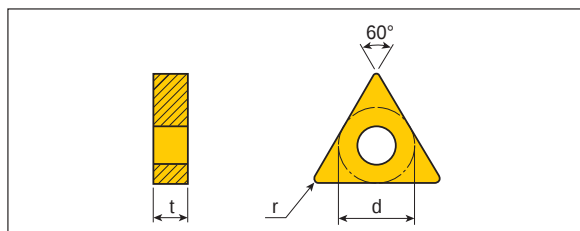


| Misura | Dimensioni (mm) |      |         |
|--------|-----------------|------|---------|
|        | d               | t    | r       |
| 11     | 6.35            | 3.18 | 0.4     |
| 13     | 7.94            | 4.76 | 0.2-1.2 |
| 16     | 9.52            | 4.76 | 0.4-1.6 |
| 22     | 12.7            | 4.76 | 0.4-1.6 |
|        |                 |      |         |
|        |                 |      |         |

| Inserto                                                                                                                 | Descrizione   | Avanz.<br>(mm/giro) | ap<br>(mm) | Cermet |        | Rivestito CVD |        |        |        |        |        |        |        | Rivestito PVD |        |        |        | Non rivestito |        |        |     |     |
|-------------------------------------------------------------------------------------------------------------------------|---------------|---------------------|------------|--------|--------|---------------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|---------------|--------|--------|-----|-----|
|                                                                                                                         |               |                     |            | PV3010 | CT3000 | TT7005        | TT7015 | TT7310 | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235        | TT5100 | TT7100 | TT5080 | TT8020        | TT9020 | TT9080 | P20 | K10 |
| <br>In figura sinistro<br>Per finitura | TNGG 130402 L | 0.10-0.30           | 0.8-3.5    | ●      |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                         | 130402 R      | 0.10-0.30           | 0.8-3.5    | ●      |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                         | 130404 L      | 0.12-0.30           | 1.0-3.5    | ●      |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                         | 130408 R      | 0.15-0.35           | 1.3-3.5    | ●      |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                         | 130408 L      | 0.15-0.35           | 1.3-3.5    | ●      |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                         | 130408 R      | 0.15-0.35           | 1.3-3.5    | ●      |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                         |               |                     |            |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
| <br>In figura sinistro<br>Lav. Medie   | TNGG 160404 L | 0.12-0.30           | 1.0-3.5    | ●      |        |               |        |        | ●      |        |        |        |        |               |        |        |        |               |        | ●      |     |     |
|                                                                                                                         | 160404 R      | 0.12-0.30           | 1.0-3.5    | ●      |        |               |        |        | ●      |        |        |        | ●      |               |        |        |        |               |        |        | ●   |     |
|                                                                                                                         | 160408 L      | 0.15-0.35           | 1.3-3.5    | ●      |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                         | 160408 R      | 0.15-0.35           | 1.3-3.5    | ●      |        |               |        |        | ●      |        |        |        |        |               |        |        |        |               |        |        | ●   |     |
|                                                                                                                         | 220404 L      | 0.12-0.30           | 1.0-5.0    | ●      |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                         | 220404 R      | 0.12-0.30           | 1.0-5.0    | ●      |        |               |        |        | ●      |        |        |        |        |               |        |        |        |               |        |        | ●   |     |
|                                                                                                                         | 220408 L      | 0.15-0.35           | 1.3-5.0    | ●      |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                         | 220408 R      | 0.15-0.35           | 1.3-5.0    | ●      |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
| <br>Per sgrossatura                  | TNMA 110304   | 0.15-0.30           | 0.5-2.0    |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        | ○   |     |
|                                                                                                                         | 160404        | 0.15-0.30           | 1.0-4.0    |        |        | ●             | ●      | ○      |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                         | 160408        | 0.15-0.40           | 1.0-4.0    |        |        | ●             | ●      | ○      |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                         | 160412        | 0.20-0.50           | 1.5-4.5    |        |        |               | ●      | ○      |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                         | 160416        | 0.20-0.50           | 1.0-4.5    |        |        | ●             |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                         | 220404        | 0.15-0.30           | 1.5-5.0    |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                         | 220408        | 0.15-0.40           | 1.5-5.0    |        |        |               | ●      | ○      |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                         | 220412        | 0.20-0.50           | 1.5-5.0    |        |        | ●             | ●      |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                         | 220416        | 0.20-0.61           | 2.0-5.0    |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
| <br>Lav. Medie                       | TNMG 130404   | 0.10-0.45           | 0.5-4.0    |        |        | ●             | ●      |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                         | 130408        | 0.10-0.50           | 0.5-4.0    |        |        | ●             | ●      |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                         | 130412        | 0.10-0.55           | 0.5-4.0    |        |        | ●             | ●      |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                         |               |                     |            |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                         |               |                     |            |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                         |               |                     |            |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                         |               |                     |            |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                         |               |                     |            |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                         |               |                     |            |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |
|                                                                                                                         |               |                     |            |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |        |        |     |     |

● : Standard ○ : Semi Standard

## Inserti Triangolari Negativi



| Misura | Dimensioni (mm) |           |         |
|--------|-----------------|-----------|---------|
|        | d               | t         | r       |
| 11     | 6.35            | 3.18      | 0.4-0.8 |
| 13     | 7.94            | 4.76      | 0.4-1.2 |
| 16     | 9.52            | 4.76      | 0.4-1.2 |
| 22     | 12.7            | 4.76      | 0.4-1.6 |
| 27     | 15.88           | 6.35      | 0.8-1.6 |
| 33     | 19.05           | 7.94-9.52 | 1.6-2.4 |

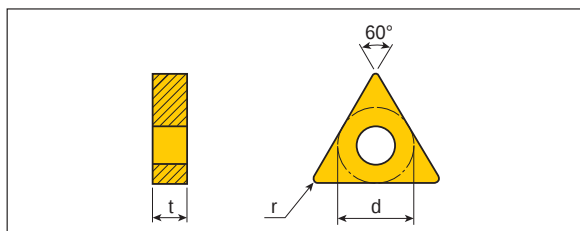
| Inserto                                                                                                 | Descrizione | Avanz.<br>(mm/giro) | ap<br>(mm) | Cermet   |        | Rivestito CVD |        |        |        |        |        |        |        |        |        | Rivestito PVD |        |        |        | Non rivestito |     |     |     |
|---------------------------------------------------------------------------------------------------------|-------------|---------------------|------------|----------|--------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|---------------|-----|-----|-----|
|                                                                                                         |             |                     |            | PV3010   | CT3000 | TT7005        | TT7015 | TT7310 | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235 | TT5100 | TT7100        | TT5080 | TT8020 | TT9020 | TT9080        | P20 | K10 | K20 |
| <br><br>Lav. Medie     | TNMG        | 110304              | 0.15-0.40  | 1.2-3.0  |        |               |        |        |        | ○      | ○      |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                         |             | 110308              | 0.17-0.40  | 1.5-3.0  |        |               |        |        |        |        | ○      |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                         |             | 160404              | 0.17-0.45  | 1.5-3.5  |        | ●             | ●      | ●      | ○      | ●      | ●      |        |        | ●      |        |               |        | ●      |        |               |     |     |     |
|                                                                                                         |             | 160408              | 0.17-0.55  | 2.0-3.5  |        | ●             | ●      | ●      | ○      | ●      | ●      |        |        | ●      |        |               |        | ●      |        |               |     |     |     |
|                                                                                                         |             | 160412              | 0.25-0.55  | 2.0-3.5  |        |               |        |        |        | ●      |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                         |             | 220404              | 0.17-0.45  | 1.5-5.0  |        |               |        |        |        | ●      | ●      |        |        | ●      |        |               |        |        |        |               |     |     |     |
|                                                                                                         |             | 220408              | 0.17-0.55  | 2.0-5.0  |        |               |        | ●      |        | ●      | ●      |        |        | ●      | ●      |               |        |        |        |               |     |     |     |
|                                                                                                         |             | 220412              | 0.25-0.55  | 2.0-5.0  |        |               |        |        |        | ●      | ●      |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                         |             | 220416              | 0.30-0.60  | 2.0-5.0  |        |               |        |        |        |        | ●      |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                         |             | 270608              | 0.17-0.55  | 2.0-5.0  |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                         |             | 270612              | 0.25-0.55  | 3.0-7.0  |        |               |        |        |        |        | ●      |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                         |             | 270616              | 0.30-0.60  | 3.0-7.0  |        |               |        |        |        |        | ●      |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                         |             | 330716              | 0.35-0.70  | 3.0-9.0  |        |               |        |        |        |        | ●      |        |        |        | ●      |               |        |        |        |               |     |     |     |
|                                                                                                         |             | 330924              | 0.40-0.80  | 3.0-9.0  |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
| <br><br>Per finitura | TNMG        | 130404 EA           | 0.05-0.30  | 0.13-1.5 |        |               |        |        |        |        |        | ●      | ●      | ●      |        | ●             |        | ●      |        |               |     |     |     |
|                                                                                                         |             | 130408 EA           | 0.07-0.40  | 0.15-1.5 |        |               |        |        |        |        |        |        | ●      | ●      | ●      |               | ●      |        | ●      |               |     |     |     |
|                                                                                                         |             |                     |            |          |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                         |             |                     |            |          |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
| <br><br>Per finitura | TNMG        | 160404 EA           | 0.05-0.20  | 0.1-1.5  |        |               |        |        |        |        |        | ●      | ●      |        |        | ●             |        | ●      |        |               |     |     |     |
|                                                                                                         |             | 160408 EA           | 0.10-0.40  | 0.1-1.5  |        |               |        |        |        |        |        |        |        |        |        |               | ●      |        | ●      |               |     |     |     |
|                                                                                                         |             |                     |            |          |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                         |             |                     |            |          |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
| <br><br>Lav. Medie   | TNMG        | 130408 EM           | 0.13-0.40  | 0.5-4.0  |        |               |        |        |        |        |        | ●      | ●      | ●      |        | ●             |        | ●      |        |               |     |     |     |
|                                                                                                         |             | 130412 EM           | 0.15-0.40  | 0.7-4.0  |        |               |        |        |        |        |        |        | ●      | ●      | ●      |               | ●      |        | ●      |               |     |     |     |
|                                                                                                         |             |                     |            |          |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                         |             |                     |            |          |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
| <br><br>Lav. Medie   | TNMG        | 160408 EM           | 0.13-0.50  | 0.8-4.5  |        |               |        |        |        |        |        | ●      | ●      |        |        | ●             |        | ●      |        |               |     |     |     |
|                                                                                                         |             | 160412 EM           | 0.15-0.55  | 0.8-4.5  |        |               |        |        |        |        |        |        |        |        |        |               | ●      |        | ●      |               |     |     |     |
|                                                                                                         |             | 220408 EM           | 0.13-0.50  | 0.8-6.0  |        |               |        |        |        |        |        |        |        | ●      | ●      |               | ●      |        | ●      |               |     |     |     |
|                                                                                                         |             | 220412 EM           | 0.15-0.55  | 0.8-6.0  |        |               |        |        |        |        |        |        |        |        |        |               |        |        | ●      |               |     |     |     |
|                                                                                                         |             |                     |            |          |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |
|                                                                                                         |             |                     |            |          |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |

● : Standard ○ : Semi Standard



A47, A50, A60, A61, A81, A83, A84,  
A111, A114, A127, A128, A133,  
A155, A156, A163, A175, A177

## Inserti Triangolari Negativi

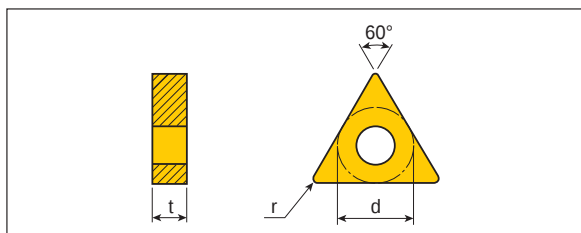


| Misura | Dimensioni (mm) |      |         |
|--------|-----------------|------|---------|
|        | d               | t    | r       |
| 11     | 6.35            | 3.18 | 0.4     |
| 13     | 7.94            | 4.76 | 0.4-1.2 |
| 16     | 9.52            | 4.76 | 0.4-1.2 |
| 22     | 12.7            | 4.76 | 0.8-1.2 |
|        |                 |      |         |
|        |                 |      |         |

| Inserto                                                                                                               | Descrizione      | Avanz.<br>(mm/giro) | ap<br>(mm) | Cermet |        |        |        |        |        |        |        |        |        | Rivestito CVD |        |        |        |        | Rivestito PVD |        |     |     | Non rivestito |  |  |
|-----------------------------------------------------------------------------------------------------------------------|------------------|---------------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|--------|---------------|--------|-----|-----|---------------|--|--|
|                                                                                                                       |                  |                     |            | PV3010 | CT3000 | TT7005 | TT7015 | TT7310 | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235        | TT5100 | TT7100 | TT5080 | TT8020 | TT9020        | TT9080 | P20 | K10 | K20           |  |  |
| <br>Per sgrossatura                  | TNMG 160408 ET   | 0.25-0.65           | 2.0-5.0    |        |        |        |        |        |        |        | ●      | ●      | ●      |               | ●      |        | ●      |        |               |        |     |     |               |  |  |
|                                                                                                                       | 160412 ET        | 0.25-0.65           | 2.0-5.0    |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |               |        |     |     |               |  |  |
|                                                                                                                       | 220408 ET        | 0.25-0.65           | 2.5-7.0    |        |        |        |        |        |        |        | ●      | ●      |        |               | ●      |        | ●      |        |               |        |     |     |               |  |  |
|                                                                                                                       | 220412 ET        | 0.25-0.65           | 2.5-7.0    |        |        |        |        |        |        |        | ●      |        | ●      |               | ●      |        | ●      |        |               |        |     |     |               |  |  |
|                                                                                                                       |                  |                     |            |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |               |        |     |     |               |  |  |
| <br>Per finitura                     | TNMG 160404 FC   | 0.05-0.30           | 0.2-2.5    | ●      | ●      |        |        |        | ●      | ●      |        | ●      |        |               |        |        |        |        |               |        |     |     |               |  |  |
|                                                                                                                       | 160408 FC        | 0.08-0.35           | 0.2-2.5    | ●      | ●      |        |        |        | ●      | ●      |        | ●      | ●      |               |        |        |        |        |               |        |     |     |               |  |  |
|                                                                                                                       | 160412 FC        | 0.10-0.40           | 0.3-2.5    |        |        |        |        |        | ●      |        |        |        |        |               |        |        |        |        |               |        |     |     |               |  |  |
|                                                                                                                       |                  |                     |            |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |               |        |     |     |               |  |  |
| <br>Per finitura                    | TNMG 130404 FG   | 0.07-0.30           | 0.25-1.5   |        |        |        |        |        | ●      | ●      |        |        |        |               | ●      |        |        |        |               |        |     |     |               |  |  |
|                                                                                                                       | 130408 FG        | 0.10-0.35           | 0.3-1.5    |        |        |        |        |        | ●      | ●      |        |        |        |               | ●      |        |        |        |               |        |     |     |               |  |  |
|                                                                                                                       | 130412 FG        | 0.15-0.40           | 0.35-1.5   |        |        |        |        |        | ●      | ●      |        |        |        |               | ●      |        |        |        |               |        |     |     |               |  |  |
|                                                                                                                       |                  |                     |            |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |               |        |     |     |               |  |  |
| <br>Per finitura                   | TNMG 110304 FG   | 0.07-0.20           | 0.5-1.5    |        | ○      |        |        |        |        |        |        |        |        |               | ○      |        |        |        |               |        |     |     |               |  |  |
|                                                                                                                       | 160404 FG        | 0.07-0.20           | 0.5-2.0    | ●      | ●      |        |        |        | ●      | ●      |        |        |        |               | ●      |        |        |        |               |        |     |     |               |  |  |
|                                                                                                                       | 160408 FG        | 0.10-0.25           | 0.7-2.0    | ●      | ●      |        |        |        | ●      | ●      |        |        |        |               | ●      |        |        |        |               |        |     |     |               |  |  |
|                                                                                                                       | 160412 FG        | 0.13-0.30           | 0.7-2.0    |        | ●      |        |        |        |        |        |        |        |        |               |        |        |        |        |               |        |     |     |               |  |  |
|                                                                                                                       | 220408 FG        | 0.10-0.25           | 0.7-2.0    |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |               |        |     |     |               |  |  |
| <br>Per finitura                   | TNMG 130404 FM   | 0.07-0.30           | 0.25-1.5   | ●      |        |        |        |        | ●      | ●      | ●      |        |        |               | ●      |        |        |        |               |        |     |     |               |  |  |
|                                                                                                                       | 130408 FM        | 0.10-0.35           | 0.3-1.5    | ●      |        |        |        |        | ●      | ●      | ●      |        |        |               | ●      |        |        |        |               |        |     |     |               |  |  |
|                                                                                                                       | 130412 FM        | 0.15-0.40           | 0.35-1.5   | ●      |        |        |        |        | ●      | ●      | ●      |        |        |               | ●      |        |        |        |               |        |     |     |               |  |  |
|                                                                                                                       |                  |                     |            |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |               |        |     |     |               |  |  |
| <br>Per finitura                   | TNMG 130404 FT   | 0.07-0.30           | 0.25-2.5   |        |        |        |        |        | ●      | ●      | ●      |        |        |               | ●      |        |        |        |               |        |     |     |               |  |  |
|                                                                                                                       | 130408 FT        | 0.10-0.40           | 0.3-2.5    |        |        |        |        |        | ●      | ●      | ●      |        |        |               | ●      |        |        |        |               |        |     |     |               |  |  |
|                                                                                                                       | 130412 FT        | 0.15-0.50           | 0.35-2.5   |        |        |        |        |        | ●      | ●      | ●      |        |        |               | ●      |        |        |        |               |        |     |     |               |  |  |
|                                                                                                                       |                  |                     |            |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |               |        |     |     |               |  |  |
| <br>In figura destro<br>Lav. Medie | TNMG 160404 L-FS | 0.15-0.30           | 0.8-3.0    |        | ●      |        |        |        |        | ●      |        |        |        | ●             |        |        |        |        |               |        |     |     |               |  |  |
|                                                                                                                       | 160404 R-FS      | 0.15-0.30           | 0.8-3.0    |        | ●      |        |        |        |        | ●      |        |        |        | ●             |        | ●      |        |        |               |        |     |     |               |  |  |
|                                                                                                                       | 160408 L-FS      | 0.20-0.40           | 1.0-3.5    |        |        |        |        |        |        | ●      |        |        |        |               |        |        |        |        |               |        |     |     |               |  |  |
|                                                                                                                       | 160408 R-FS      | 0.20-0.40           | 1.0-3.5    |        |        |        |        |        |        | ●      |        |        |        | ●             |        | ●      |        |        |               |        |     |     |               |  |  |
|                                                                                                                       |                  |                     |            |        |        |        |        |        |        |        |        |        |        |               |        |        |        |        |               |        |     |     |               |  |  |

● : Standard ○ : Semi Standard

## Inserti Triangolari Negativi



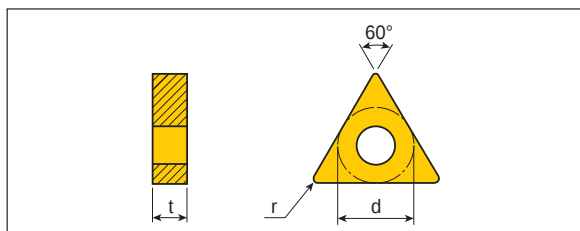
| Misura    | Dimensioni (mm) |      |         |
|-----------|-----------------|------|---------|
|           | d               | t    | r       |
| <b>13</b> | 7.94            | 4.76 | 0.4-1.2 |
| <b>16</b> | 9.52            | 4.76 | 0.4-1.2 |
| <b>22</b> | 12.7            | 4.76 | 0.4-1.2 |
|           |                 |      |         |
|           |                 |      |         |
|           |                 |      |         |

[illegible]

●: Standard ○: Semi Standard



A47, A50, A60, A61, A81, A83, A84,  
A111, A114, A127, A128, A133,  
A155, A156, A163, A175, A177

**Inserti Triangolari Negativi**


| Misura    | Dimensioni (mm) |      |         |
|-----------|-----------------|------|---------|
|           | d               | t    | r       |
| <b>11</b> | 6.35            | 3.18 | 0.8     |
| <b>13</b> | 7.94            | 4.76 | 0.4-1.2 |
| <b>16</b> | 9.52            | 4.76 | 0.4-1.2 |
| <b>22</b> | 12.7            | 4.76 | 0.4-1.2 |
| <b>27</b> | 15.88           | 6.35 | 1.2     |
| <b>33</b> | 19.05           | 9.52 | 2.4     |

| Inserto                                                                                                                                                                                                                                                                | Descrizione    | Avanz.<br>(mm/giro) | ap<br>(mm) | Cermet |        | Rivestito CVD |        |        |        |        |        |        |        |        |        | Rivestito PVD |        |        |        | Non rivestito |     |     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------|------------|--------|--------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|---------------|-----|-----|
|                                                                                                                                                                                                                                                                        |                |                     |            | PV3010 | CT3000 | TT7005        | TT7015 | TT7310 | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235 | TT5100 | TT7100        | TT5080 | TT8020 | TT9020 | TT9080        | P20 | K10 |
| <br>Lav. Medie                                                                                                                                                                        | TNMG 130404 MT | 0.10-0.35           | 0.8-3.5    |        |        |               |        |        | ●      | ●      | ●      |        |        | ●      |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                                                                                        | 130408 MT      | 0.15-0.45           | 1.0-3.5    |        |        |               |        |        | ●      | ●      | ●      |        |        | ●      |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                                                                                        | 130412 MT      | 0.20-0.55           | 1.2-3.5    |        |        |               |        |        | ●      | ●      | ●      |        |        | ●      |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                                                                                        |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
| <br> <br>Lav. Medie | TNMG 110308 MT | 0.17-0.40           | 1.0-3.0    |        |        |               |        |        | ○      | ○      |        |        |        | ○      |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                                                                                        | 160404 MT      | 0.17-0.40           | 1.0-3.5    | ●      | ●      | ●             | ○      | ●      | ●      |        |        |        |        | ●      |        | ●             | ●      |        |        |               |     |     |
|                                                                                                                                                                                                                                                                        | 160408 MT      | 0.17-0.50           | 1.2-3.5    | ●      | ●      | ●             | ○      | ●      | ●      |        |        | ●      |        | ●      |        | ●             | ●      |        |        |               |     |     |
|                                                                                                                                                                                                                                                                        | 160412 MT      | 0.20-0.50           | 1.5-3.5    |        | ●      |               |        | ●      | ●      |        |        |        |        | ●      |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                                                                                        | 220404 MT ✓    | 0.15-0.40           | 1.2-5.0    |        |        |               |        | ●      | ●      |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                                                                                        | 220408 MT ✓    | 0.17-0.50           | 1.2-5.0    |        | ●      |               |        | ●      | ●      |        |        |        |        | ●      |        |               | ●      |        |        |               |     |     |
|                                                                                                                                                                                                                                                                        | 220412 MT      | 0.20-0.50           | 1.5-5.0    |        |        |               |        | ●      | ●      |        |        |        |        | ●      |        |               | ●      |        |        |               |     |     |
|                                                                                                                                                                                                                                                                        | 270612 MT ✓    | 0.20-0.50           | 3.0-7.0    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
| <br>Lav. Medie                                                                                                                                                                      | TNMG 130404 PC | 0.10-0.30           | 0.4-3.0    |        |        |               |        |        | ●      | ●      | ●      |        |        | ●      |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                                                                                        | 130408 PC      | 0.15-0.40           | 0.5-3.0    |        |        |               |        |        | ●      | ●      | ●      |        |        | ●      |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                                                                                        | 130412 PC      | 0.18-0.50           | 0.6-3.0    |        |        |               |        |        | ●      | ●      | ●      |        |        | ●      |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                                                                                        |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
| <br>Lav. Medie                                                                                                                                                                      | TNMG 160404 PC | 0.15-0.40           | 1.0-3.5    |        |        |               |        |        | ●      | ●      |        | ●      |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                                                                                        | 160408 PC      | 0.15-0.50           | 0.5-4.5    |        |        |               |        |        | ●      | ●      |        | ●      | ●      | ●      | ●      |               |        |        | ●      |               |     |     |
|                                                                                                                                                                                                                                                                        | 160412 PC      | 0.17-0.55           | 0.6-4.5    |        |        |               |        |        | ●      | ●      |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                                                                                        | 220408 PC      | 0.17-0.50           | 1.2-5.0    |        |        |               |        |        | ●      | ●      |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                                                                                        | 220412 PC      | 0.20-0.50           | 1.5-5.0    |        |        |               |        |        | ●      | ●      |        |        |        |        |        |               |        |        |        |               |     |     |
| <br>Per sgrossatura                                                                                                                                                                 | TNMG 160408 RT | 0.25-0.65           | 2.0-5.0    |        |        | ●             | ●      | ○      | ●      |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                                                                                        | 160412 RT      | 0.25-0.65           | 2.0-5.0    |        |        | ●             |        | ○      | ●      |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                                                                                        | 220408 RT      | 0.25-0.65           | 2.0-7.0    |        |        |               |        |        | ●      | ●      |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                                                                                        | 220412 RT      | 0.25-0.65           | 2.5-7.0    |        |        |               | ●      |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                                                                                        | 330924 RT      | 0.35-0.70           | 3.0-9.0    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                                                                                        |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |



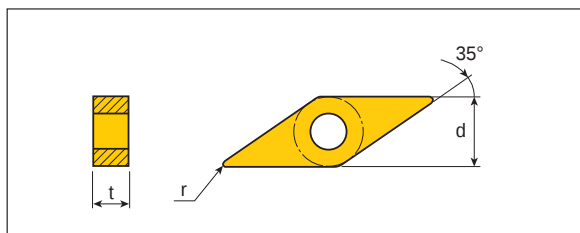
A47, A50, A60, A61, A81, A83, A84,  
A111, A114, A127, A128, A133,  
A155, A156, A163, A175, A177

✓ : Rompitruciolo vecchio tipo

● : Standard ○ : Semi Standard



## Inserti Rombici Negativi a 35°



| Misura | Dimensioni (mm) |      |         |
|--------|-----------------|------|---------|
|        | d               | t    | r       |
| 13     | 7.94            | 4.76 | 0.4-0.8 |
| 16     | 9.52            | 4.76 | 0.1-1.2 |
|        |                 |      |         |
|        |                 |      |         |
|        |                 |      |         |
|        |                 |      |         |
|        |                 |      |         |

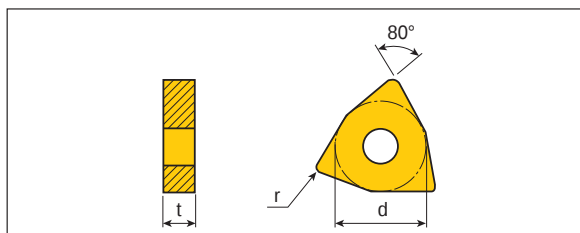
| Inserto                                                                                             | Descrizione      | Avanz.<br>(mm/giro) | ap<br>(mm) | Cermet |        |        |        |        |        |        |        |        |        |        |        | Rivestito CVD |        |        |        | Rivestito PVD |     |     |     | Non rivestito |  |  |
|-----------------------------------------------------------------------------------------------------|------------------|---------------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|---------------|-----|-----|-----|---------------|--|--|
|                                                                                                     |                  |                     |            | PV3010 | CT3000 | TT7005 | TT7015 | TT7310 | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235 | TT5100 | TT7100        | TT5080 | TT8020 | TT9020 | TT9080        | P20 | K10 | K20 |               |  |  |
| <br>Lav. Medie     | VNGG 160401 ML   | 0.03-0.10           | 0.1-1.0    |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                     | 160402 ML        | 0.05-0.15           | 0.2-1.2    |        |        |        |        |        |        |        |        |        |        |        |        |               |        | ●      |        |               |     |     |     |               |  |  |
|                                                                                                     | 160404 ML        | 0.10-0.27           | 0.8-3.0    |        |        |        |        |        |        |        |        |        |        |        |        |               |        | ●      |        |               |     |     | ●   |               |  |  |
|                                                                                                     | 160408 ML        | 0.10-0.30           | 0.8-3.5    |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                     |                  |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
| <br>Lav. Medie     | VNMG 160404      | 0.17-0.40           | 1.0-3.0    | ●      | ●      | ●      | ○      | ●      | ●      |        |        |        |        | ●      |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                     | 160408           | 0.17-0.50           | 1.5-3.0    | ●      | ●      | ●      | ○      | ●      | ●      |        |        |        |        | ●      |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                     | 160412           | 0.20-0.50           | 1.5-3.0    |        |        | ●      | ●      |        | ●      |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                     |                  |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                     |                  |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
| <br>Per finitura  | VNMG 160404 EA   | 0.05-0.2            | 0.1-1.5    |        |        |        |        |        |        |        |        | ●      | ●      |        |        |               | ●      |        |        | ●             |     |     |     |               |  |  |
|                                                                                                     | 160408 EA        | 0.08-0.3            | 0.2-2.5    |        |        |        |        |        |        |        |        |        |        |        |        |               | ●      |        |        |               |     |     |     |               |  |  |
|                                                                                                     |                  |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                     |                  |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                     |                  |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
| <br>Lav. Medie   | VNMG 160408 EM   | 0.13-0.50           | 0.8-3.5    |        |        |        |        |        |        |        |        | ●      |        |        |        |               |        |        |        | ●             |     |     |     |               |  |  |
|                                                                                                     |                  |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                     |                  |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                     |                  |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                     |                  |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
| <br>Per finitura | VNMG 160408 FA   | 0.05-0.25           | 0.3-2.0    |        |        |        |        |        | ●      |        |        |        |        | ●      |        |               | ●      |        |        |               |     |     |     |               |  |  |
|                                                                                                     |                  |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                     |                  |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                     |                  |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                     |                  |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
| <br>Per finitura | VNMG 130404 FC * | 0.08-0.20           | 0.5-1.5    | ○      |        |        |        |        | ○      | ○      |        | ○      |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                     | 130408 FC *      | 0.10-0.23           | 0.5-2.0    |        |        |        |        |        |        | ○      |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                     | 160404 FC        | 0.05-0.30           | 0.3-2.5    | ●      |        |        |        |        | ●      | ●      |        | ●      |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                     | 160408 FC        | 0.08-0.35           | 0.3-2.5    | ●      |        |        |        |        | ●      | ●      |        | ●      |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                     |                  |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
| <br>Per finitura | VNMG 130404 FG * | 0.10-0.30           | 0.7-3.5    | ●      |        |        |        |        | ●      | ●      |        |        |        | ●      |        |               | ●      |        |        |               |     |     |     |               |  |  |
|                                                                                                     | 130408 FG *      | 0.10-0.30           | 0.7-3.5    | ●      |        |        |        |        | ●      | ●      |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |
|                                                                                                     | 160404 FG        | 0.12-0.35           | 1.0-3.5    | ●      | ●      |        |        |        | ●      | ●      |        | ●      |        |        | ●      |               | ●      | ●      |        |               |     |     |     |               |  |  |
|                                                                                                     | 160408 FG        | 0.12-0.35           | 1.0-3.5    | ●      | ●      |        |        |        | ●      | ●      |        |        |        | ●      |        | ●             |        | ●      |        |               |     |     |     |               |  |  |
|                                                                                                     |                  |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |               |  |  |

\* : Inserto con foro per vite

● : Standard ○ : Semi Standard



## Inserti Trigoni Negativi a 80°

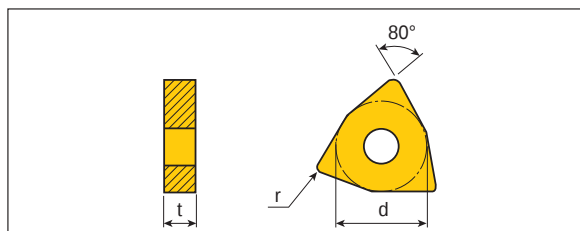


| Misura | Dimensioni (mm) |      |         |
|--------|-----------------|------|---------|
|        | d               | t    | r       |
| 06     | 9.52            | 4.76 | 0.4-1.2 |
| 08     | 12.7            | 4.76 | 0.4-1.2 |
|        |                 |      |         |
|        |                 |      |         |
|        |                 |      |         |
|        |                 |      |         |
|        |                 |      |         |

| Inserto                                                                                                | Descrizione                                                        | Avanz.<br>(mm/giro) | ap<br>(mm) | Cermet |        | Rivestito CVD |        |        |        |        |        |        |        |        |        | Rivestito PVD |        |        | Non rivestito |        |     |     |
|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------|------------|--------|--------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|---------------|--------|-----|-----|
|                                                                                                        |                                                                    |                     |            | PV3010 | CT3000 | TT7005        | TT7015 | TT7310 | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235 | TT5100 | TT7100        | TT5080 | TT8020 | TT9020        | TT9080 | P20 | K10 |
| <br>Per sgrossatura   | WNMA 060408<br>060412<br>080408<br>080412<br>080416                | 0.15-0.70           | 1.0-4.0    |        |        |               | ○      |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
|                                                                                                        |                                                                    | 0.20-0.80           | 1.5-4.0    |        |        |               | ○      |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
|                                                                                                        |                                                                    | 0.15-0.70           | 1.0-5.0    |        |        |               | ●      | ●      | ○      |        |        |        |        |        |        |               |        |        |               |        |     |     |
|                                                                                                        |                                                                    | 0.20-0.80           | 1.5-5.0    |        |        |               | ●      | ●      | ○      |        |        |        |        |        |        |               |        |        |               |        |     |     |
|                                                                                                        |                                                                    | 0.20-0.80           | 1.5-5.0    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
| <br>Per finitura      | WNMG 080404 EA<br>080408 EA                                        | 0.05-0.20           | 0.1-1.5    |        |        |               |        |        |        |        |        |        |        |        |        | ●             |        |        | ●             |        |     |     |
|                                                                                                        |                                                                    | 0.10-0.40           | 0.1-1.5    |        |        |               |        |        |        |        |        |        |        |        |        |               | ●      |        |               |        |     |     |
|                                                                                                        |                                                                    |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
| <br>Lav. Medie        | WNMG 060408 EM<br>060412 EM<br>080404 EM<br>080408 EM<br>080412 EM | 0.13-0.50           | 0.8-3.0    |        |        |               |        |        |        |        |        |        | ○      |        |        | ○             |        | ○      |               |        |     |     |
|                                                                                                        |                                                                    | 0.15-0.55           | 0.8-3.0    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        | ●             |        |     |     |
|                                                                                                        |                                                                    | 0.10-0.45           | 0.8-4.0    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        | ●             |        |     |     |
|                                                                                                        |                                                                    | 0.12-0.45           | 0.8-4.0    |        |        |               |        |        |        |        |        |        |        |        |        |               |        | ●      |               | ●      |     |     |
|                                                                                                        |                                                                    | 0.12-0.45           | 0.8-4.0    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               | ●      |     |     |
| <br>Per sgrossatura | WNMG 060408 ET<br>060412 ET<br>080408 ET<br>080412 ET              | 0.15-0.50           | 0.8-4.0    |        |        |               |        |        |        |        |        |        | ○      | ○      | ○      |               | ○      |        | ○             |        |     |     |
|                                                                                                        |                                                                    | 0.15-0.50           | 0.8-4.0    |        |        |               |        |        |        |        |        |        |        | ○      | ○      | ○             |        | ○      |               | ○      |     |     |
|                                                                                                        |                                                                    | 0.15-0.55           | 0.8-4.5    |        |        |               |        |        |        |        |        |        |        |        | ●      | ●             |        | ●      |               |        |     |     |
|                                                                                                        |                                                                    | 0.20-0.50           | 0.8-4.5    |        |        |               |        |        |        |        |        |        |        |        | ●      | ●             |        | ●      |               |        |     |     |
|                                                                                                        |                                                                    |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
| <br>Per finitura    | WNMG 060404 FC<br>060408 FC<br>080404 FC<br>080408 FC<br>080412 FC | 0.07-0.20           | 0.5-2.0    | ○      |        |               |        |        | ○      | ○      |        |        | ○      |        |        |               |        |        |               |        |     |     |
|                                                                                                        |                                                                    | 0.10-0.25           | 0.5-2.0    | ○      |        |               |        |        | ○      | ○      |        |        |        |        |        |               |        |        |               |        |     |     |
|                                                                                                        |                                                                    | 0.07-0.20           | 0.5-2.0    |        |        |               |        |        |        | ●      |        |        |        |        |        |               |        |        |               |        |     |     |
|                                                                                                        |                                                                    | 0.07-0.20           | 0.5-2.0    | ●      |        |               |        |        | ●      | ●      | ●      |        |        |        |        |               |        |        |               |        |     |     |
|                                                                                                        |                                                                    | 0.10-0.25           | 0.5-2.0    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
| <br>Per finitura    | WNMG 060404 FG<br>060408 FG<br>080404 FG<br>080408 FG              | 0.07-0.20           | 0.5-2.0    | ○      | ○      |               |        |        | ○      | ○      |        |        |        | ○      |        |               |        |        |               |        |     |     |
|                                                                                                        |                                                                    | 0.10-0.25           | 0.7-2.0    | ○      | ○      |               |        |        | ○      |        |        |        |        |        |        |               |        |        |               |        |     |     |
|                                                                                                        |                                                                    | 0.07-0.20           | 0.5-2.0    | ●      | ●      |               |        |        | ●      | ●      |        |        |        | ●      |        | ●             |        |        |               |        |     |     |
|                                                                                                        |                                                                    | 0.10-0.25           | 0.7-2.0    | ●      | ●      |               |        |        | ●      | ●      |        |        |        | ●      |        |               |        |        |               |        |     |     |
|                                                                                                        |                                                                    |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
|                                                                                                        |                                                                    |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |

● : Standard ○ : Semi Standard

## Inserti Trigoni Negativi a 80°



| Misura | Dimensioni (mm) |      |         |
|--------|-----------------|------|---------|
|        | d               | t    | r       |
| 06     | 9.52            | 4.76 | 0.4-1.2 |
| 08     | 12.7            | 4.76 | 0.4-1.6 |
|        |                 |      |         |
|        |                 |      |         |
|        |                 |      |         |
|        |                 |      |         |
|        |                 |      |         |

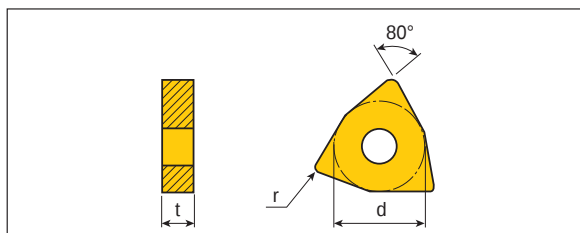
| Inserto                                                                                                                                                                                                                                                                      | Descrizione    | Avanz.<br>(mm/giro) | ap<br>(mm) | Cermet |        | Rivestito CVD |        |        |        |        |        |        |        |        |        | Rivestito PVD |        | Non rivestito |        |        |     |     |     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------|------------|--------|--------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|---------------|--------|--------|-----|-----|-----|
|                                                                                                                                                                                                                                                                              |                |                     |            | PV3010 | CT3000 | TT7005        | TT7015 | TT7310 | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235 | TT5100 | TT7100        | TT5080 | TT8020        | TT9020 | TT9080 | P20 | K10 | K20 |
| <br>Per sgrassatura                                                                                                                                                                         | WNMG 080408 KT | 0.17-0.47           | 0.29-5.5   |        |        | ●             | ●      |        |        |        |        |        |        |        |        |               |        |               |        |        |     |     |     |
|                                                                                                                                                                                                                                                                              | 080412 KT      | 0.23-0.63           | 0.39-5.5   |        |        | ●             | ●      |        |        |        |        |        |        |        |        |               |        |               |        |        |     |     |     |
|                                                                                                                                                                                                                                                                              |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |               |        |        |     |     |     |
|                                                                                                                                                                                                                                                                              |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |               |        |        |     |     |     |
| <br>Lav. Medie                                                                                                                                                                              | WNMG 060404 MC | 0.10-0.30           | 0.5-2.5    |        |        |               |        |        |        | ○      |        |        |        |        | ○      |               |        |               |        |        |     |     |     |
|                                                                                                                                                                                                                                                                              | 060408 MC      | 0.12-0.35           | 0.7-3.0    |        |        |               |        |        |        | ○      |        |        |        |        |        |               |        |               |        |        |     |     |     |
|                                                                                                                                                                                                                                                                              | 080408 MC      | 0.12-0.35           | 0.7-3.5    |        |        |               |        |        |        | ●      | ●      |        |        |        | ●      |               |        |               |        |        |     |     |     |
|                                                                                                                                                                                                                                                                              | 080412 MC      | 0.15-0.40           | 0.7-3.5    |        |        |               |        |        |        | ●      | ●      |        |        |        |        |               |        |               |        |        |     |     |     |
|                                                                                                                                                                                                                                                                              |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |               |        |        |     |     |     |
| <br>Lav. Medie                                                                                                                                                                              | WNMG 080408 ML | 0.12-0.35           | 1.0-3.5    |        |        |               |        |        |        | ●      |        | ●      | ●      |        | ●      | ●             | ●      | ●             |        |        |     | ●   |     |
|                                                                                                                                                                                                                                                                              | 080412 ML      | 0.15-0.35           | 1.3-3.5    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |               |        |        |     |     |     |
|                                                                                                                                                                                                                                                                              |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |               |        |        |     |     |     |
| <br> <br>Lav. Medie | WNMG 060408 MP | 0.12-0.35           | 1.0-3.0    |        |        |               |        |        |        | ○      |        |        | ○      |        | ○      | ○             | ○      |               |        |        |     |     |     |
|                                                                                                                                                                                                                                                                              | 060412 MP      | 0.15-0.40           | 1.3-3.0    |        |        |               |        |        |        |        |        |        |        |        | ○      |               |        |               |        |        |     |     |     |
|                                                                                                                                                                                                                                                                              | 080404 MP ✓    | 0.10-0.35           | 1.0-4.0    |        |        |               |        |        |        | ●      |        |        |        |        |        |               |        |               |        |        |     |     |     |
|                                                                                                                                                                                                                                                                              | 080408 MP      | 0.12-0.40           | 1.0-4.0    |        |        |               |        |        |        | ●      | ●      |        | ●      | ●      | ●      | ●             | ●      | ●             | ●      |        |     |     |     |
|                                                                                                                                                                                                                                                                              | 080412 MP      | 0.15-0.40           | 1.3-4.0    |        |        |               |        |        |        |        |        |        |        |        | ●      |               |        |               |        |        |     |     |     |
|                                                                                                                                                                                                                                                                              |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |               |        |        |     |     |     |
| <br> <br>Lav. Medie | WNMG 060404 MT | 0.12-0.40           | 1.0-3.0    |        |        | ○             | ○      | ○      | ○      |        |        | ○      |        | ○      | ○      | ○             | ○      |               |        |        |     |     |     |
|                                                                                                                                                                                                                                                                              | 060408 MT      | 0.15-0.45           | 1.2-3.0    |        |        | ○             | ○      | ○      | ○      |        |        | ○      |        | ○      | ○      | ○             | ○      |               |        |        |     |     |     |
|                                                                                                                                                                                                                                                                              | 060412 MT      | 0.23-0.50           | 1.5-3.0    |        |        |               |        |        | ●      |        |        |        |        |        |        |               |        |               |        |        |     |     |     |
|                                                                                                                                                                                                                                                                              | 080404 MT ✓    | 0.12-0.40           | 1.0-4.0    | ●      |        | ●             | ○      | ●      | ●      |        |        | ●      |        | ●      | ●      | ●             | ●      | ●             |        |        |     |     |     |
|                                                                                                                                                                                                                                                                              | 080408 MT      | 0.17-0.55           | 1.2-4.0    | ●      | ●      | ●             | ○      | ●      | ●      | ●      | ●      | ●      |        | ●      | ●      | ●             | ●      | ●             | ●      | ●      |     |     |     |
|                                                                                                                                                                                                                                                                              | 080412 MT      | 0.25-0.55           | 1.5-4.0    |        |        | ●             | ○      | ●      | ●      |        |        | ●      | ●      | ●      |        |               | ●      |               |        |        |     |     |     |
|                                                                                                                                                                                                                                                                              |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |               |        |        |     |     |     |
| <br>Lav. Medie                                                                                                                                                                            | WNMG 060408 PC | 0.15-0.50           | 0.5-4.0    |        |        |               |        |        | ○      | ○      |        |        |        |        |        |               |        |               |        |        |     |     |     |
|                                                                                                                                                                                                                                                                              | 060412 PC      | 0.17-0.50           | 0.6-4.0    |        |        |               |        |        | ○      | ○      |        |        |        |        |        |               |        |               |        |        |     |     |     |
|                                                                                                                                                                                                                                                                              | 080408 PC      | 0.15-0.50           | 0.5-4.0    |        |        |               |        |        | ●      | ●      |        | ●      | ●      | ●      |        | ●             |        |               | ●      |        |     |     |     |
|                                                                                                                                                                                                                                                                              | 080412 PC      | 0.17-0.50           | 0.6-4.0    |        |        |               |        |        | ●      | ●      | ●      |        | ●      |        |        |               |        |               | ●      |        |     |     |     |
|                                                                                                                                                                                                                                                                              | 080416 PC      | 0.20-0.50           | 0.8-4.0    |        |        |               |        |        | ●      |        |        |        |        |        |        |               |        |               |        |        |     |     |     |
|                                                                                                                                                                                                                                                                              |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |               |        |        |     |     |     |
| <br>Per sgrassatura                                                                                                                                                                       | WNMG 080408 RT | 0.25-0.70           | 2.5-4.0    |        |        | ●             | ●      | ○      | ●      | ●      | ●      |        | ●      | ●      | ●      | ●             |        |               |        |        |     |     |     |
|                                                                                                                                                                                                                                                                              | 080412 RT      | 0.25-0.70           | 2.5-4.0    |        |        | ●             | ●      | ○      | ●      | ●      |        |        |        | ●      |        |               |        |               |        |        |     |     |     |
|                                                                                                                                                                                                                                                                              | 080416 RT      | 0.30-0.75           | 2.5-4.0    |        |        | ●             |        |        | ●      | ●      |        |        |        |        |        |               |        |               |        |        |     |     |     |
|                                                                                                                                                                                                                                                                              |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |               |        |        |     |     |     |

● : Standard ○ : Semi Standard  
✓ : Rompitrucciolo vecchio tipo



# T-TURN WNMG WNMX

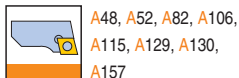
## Inserti Trigoni Negativi a 80°



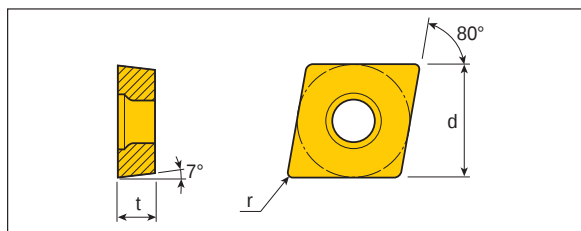
| Misura | Dimensioni (mm) |      |         |
|--------|-----------------|------|---------|
|        | d               | t    | r       |
| 06     | 9.52            | 4.76 | 0.4-1.2 |
| 08     | 12.7            | 4.76 | 0.4-1.2 |
|        |                 |      |         |
|        |                 |      |         |
|        |                 |      |         |
|        |                 |      |         |
|        |                 |      |         |

| Inserto                                                                                                        | Descrizione    | Avanz.<br>(mm/giro) | ap<br>(mm) | Cermet |        | Rivestito CVD |        |        |        |        |        |        |        |        |        | Rivestito PVD |        |        |        | Non rivestito |     |     |
|----------------------------------------------------------------------------------------------------------------|----------------|---------------------|------------|--------|--------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|---------------|-----|-----|
|                                                                                                                |                |                     |            | PV3010 | CT3000 | TT7005        | TT7015 | TT7310 | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235 | TT5100 | TT7100        | TT5080 | TT8020 | TT9020 | TT9080        | P20 | K10 |
| <br>Wiper<br>Per finitura     | WNMG 080408 WS | 0.07-0.35           | 0.5-2.0    |        |        |               | ●      |        | ●      |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
| <br>Wiper<br>Lav. Medie       | WNMG 060408 WT | 0.15-0.60           | 0.7-3.5    |        |        |               |        |        | ○      |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                | 060412 WT      | 0.20-0.80           | 0.7-3.5    |        |        |               | ○      | ○      | ○      |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                | 080408 WT      | 0.15-0.60           | 1.0-4.0    | ●      |        |               |        |        | ●      | ●      |        |        |        |        | ●      |               |        |        |        |               |     |     |
|                                                                                                                | 080412 WT      | 0.20-0.80           | 1.0-4.0    |        |        |               | ●      | ○      | ●      | ●      | ●      |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
| <br>Rain-Buck<br>Lav. Medie   | WNMX 060404 EM | 0.10-0.35           | 0.4-3.5    |        |        |               |        |        |        |        |        |        | ●      | ●      | ●      |               | ●      |        | ●      |               |     |     |
|                                                                                                                | 060408 EM      | 0.13-0.40           | 0.5-3.5    |        |        |               |        |        |        |        |        |        | ●      | ●      | ●      |               | ●      |        | ●      |               |     |     |
|                                                                                                                | 060412 EM      | 0.15-0.40           | 0.7-3.5    |        |        |               |        |        |        |        |        |        | ●      | ●      | ●      |               | ●      |        | ●      |               |     |     |
|                                                                                                                |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
| <br>Rain-Buck<br>Lav. Medie | WNMX 060404 FG | 0.07-0.30           | 0.2-2.0    | ●      | ●      |               |        |        | ●      | ●      |        |        |        |        | ●      |               | ●      |        |        |               |     |     |
|                                                                                                                | 060408 FG      | 0.10-0.35           | 0.5-2.0    | ●      | ●      |               |        |        | ●      | ●      |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
| <br>Rain-Buck<br>Lav. Medie | WNMX 060404 FM | 0.07-0.30           | 0.25-2.0   | ●      |        |               |        |        | ●      |        |        |        |        |        | ●      |               |        |        |        |               |     |     |
|                                                                                                                | 060408 FM      | 0.10-0.35           | 0.3-2.0    | ●      |        |               |        |        | ●      |        |        |        |        |        | ●      |               |        |        |        |               |     |     |
|                                                                                                                | 060412 FM      | 0.15-0.40           | 0.35-2.0   | ●      |        |               |        |        | ●      |        |        |        |        |        | ●      |               |        |        |        |               |     |     |
|                                                                                                                |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
| <br>Rain-Buck<br>Lav. Medie | WNMX 060404 MM | 0.15-0.45           | 0.4-3.5    |        |        |               |        |        |        |        |        |        | ●      | ●      | ●      |               | ●      |        | ●      |               |     |     |
|                                                                                                                | 060408 MM      | 0.20-0.50           | 0.5-3.5    |        |        |               |        |        |        |        |        |        | ●      | ●      | ●      |               | ●      |        | ●      |               |     |     |
|                                                                                                                | 060412 MM      | 0.23-0.50           | 0.7-3.5    |        |        |               |        |        |        |        |        |        | ●      | ●      | ●      |               | ●      |        | ●      |               |     |     |
|                                                                                                                |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
| <br>Rain-Buck<br>Lav. Medie | WNMX 060404 MT | 0.10-0.35           | 0.8-3.5    |        |        |               |        |        | ●      | ●      |        | ●      | ●      | ●      | ●      |               | ●      |        |        |               |     |     |
|                                                                                                                | 060408 MT      | 0.15-0.45           | 1.0-3.5    |        |        | ●             | ●      |        | ●      | ●      |        | ●      | ●      | ●      | ●      |               | ●      |        |        |               |     |     |
|                                                                                                                | 060412 MT      | 0.20-0.55           | 1.2-3.5    |        |        | ●             | ●      |        | ●      | ●      |        |        |        |        | ●      |               |        |        |        |               |     |     |
|                                                                                                                |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
| <br>Rain-Buck<br>Lav. Medie | WNMX 060404 PC | 0.10-0.30           | 0.4-3.5    |        |        |               |        |        | ●      | ●      |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                | 060408 PC      | 0.15-0.40           | 0.5-3.5    |        |        |               |        |        | ●      | ●      |        |        |        |        |        |               |        |        | ●      |               |     |     |
|                                                                                                                | 060412 PC      | 0.18-0.50           | 0.6-3.5    |        |        |               |        |        | ●      | ●      |        |        |        |        |        |               |        |        | ●      |               |     |     |
|                                                                                                                |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |

● : Standard ○ : Semi Standard



## Inserti Rombici Positivi a 7°



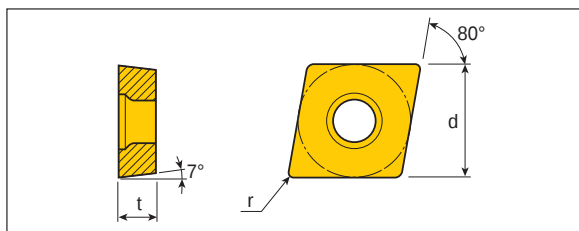
| Misura | Dimensioni (mm) |      |          |
|--------|-----------------|------|----------|
|        | d               | t    | r        |
| 03     | 3.97            | 1.59 | 0.03-0.4 |
| 04     | 4.76            | 1.59 | 0.03-0.4 |
| 06     | 6.35            | 2.38 | 0.03-0.4 |
| 09     | 9.52            | 3.97 | 0.03-0.4 |
|        |                 |      |          |
|        |                 |      |          |

| Inserto                                                                                                                                                                                           | Descrizione       | Avanz.<br>(mm/giro) | ap<br>(mm) | Cermet |        | Rivestito CVD |        |        |        |        |        |        |        |        |        | Rivestito PVD |        |        |        | Non rivestito |     |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------------|------------|--------|--------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|---------------|-----|-----|
|                                                                                                                                                                                                   |                   |                     |            | PV3010 | CT3000 | TT7005        | TT7015 | TT7310 | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235 | TT5100 | TT7100        | TT5080 | TT8020 | TT9020 | TT9080        | P20 | K10 |
| <br>In figura destro<br>Per finitura                                                                             | CCET 060201 L-GF  | 0.02-0.15           | 0.2-1.5    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                   | 060201 R-GF       | 0.02-0.15           | 0.2-1.5    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                   | 060202 L-GF       | 0.03-0.17           | 0.3-1.5    |        |        |               |        |        |        |        |        |        |        |        |        |               | ●      |        |        |               |     |     |
|                                                                                                                                                                                                   | 060202 R-GF       | 0.03-0.17           | 0.3-1.5    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                   | 060204 L-GF       | 0.05-0.20           | 0.3-1.5    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                   | 060204 R-GF       | 0.05-0.20           | 0.3-1.5    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                   | 09T301 L-GF       | 0.02-0.15           | 0.2-2.5    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                   | 09T301 R-GF       | 0.02-0.15           | 0.2-2.5    |        |        |               |        |        |        |        |        |        |        |        |        |               | ●      |        |        |               |     |     |
|                                                                                                                                                                                                   | 09T302 L-GF       | 0.03-0.17           | 0.3-2.5    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                   | 09T302 R-GF       | 0.03-0.17           | 0.3-2.5    |        |        |               |        |        |        |        |        |        |        |        |        |               | ●      |        |        |               |     |     |
|                                                                                                                                                                                                   | 09T304 L-GF       | 0.05-0.20           | 0.3-2.5    |        |        |               |        |        |        |        |        |        |        |        |        |               | ●      |        |        |               |     |     |
|                                                                                                                                                                                                   | 09T304 R-GF       | 0.05-0.20           | 0.3-2.5    |        |        |               |        |        |        |        |        |        |        |        |        |               | ●      |        |        |               |     |     |
| <br>In figura destro<br>Per finitura<br><br>Può essere usato solo<br>su utensili con angolo<br>di attacco a 95° | CCET 0602003 L-GW | 0.02-0.15           | 0.1-1.5    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                   | 0602003 R-GW      | 0.02-0.15           | 0.1-1.5    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                   | 09T3003 L-GW      | 0.02-0.15           | 0.1-2.5    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                   | 09T3003 R-GW      | 0.02-0.15           | 0.1-2.5    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                   |                   |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                   |                   |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
| <br>Per finitura                                                                                               | CCGT 0301003 R-FF | 0.03-0.10           | 0.05-0.3   |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                   | 0301003 L-FF      | 0.03-0.10           | 0.05-0.3   |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                   | 030101 R-FF       | 0.03-0.12           | 0.08-0.4   |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                   | 030101 L-FF       | 0.03-0.12           | 0.08-0.4   | ●      |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                   | 030102 R-FF       | 0.03-0.15           | 0.1-0.4    | ●      |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                   | 030102 L-FF       | 0.03-0.15           | 0.1-0.4    | ●      |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                   | 030104 R-FF       | 0.05-0.20           | 0.1-0.4    | ●      |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                   | 030104 L-FF       | 0.05-0.20           | 0.1-0.4    | ●      |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                   | 0401003 R-FF      | 0.03-0.10           | 0.05-0.4   |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                   | 0401003 L-FF      | 0.03-0.10           | 0.05-0.4   |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                   | 040101 R-FF       | 0.03-0.12           | 0.1-0.5    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                   | 040101 L-FF       | 0.03-0.12           | 0.1-0.5    | ●      |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                   | 040102 R-FF       | 0.03-0.15           | 0.1-0.5    | ●      |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                   | 040102 L-FF       | 0.03-0.15           | 0.1-0.5    | ●      |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                   | 040104 R-FF       | 0.05-0.20           | 0.1-0.5    | ●      |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                                                                                                   | 040104 L-FF       | 0.05-0.20           | 0.1-0.5    | ●      |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |

● : Standard ○ : Semi Standard

# T-TURN CCGT CCMT

## Inserti Rombici Positivi a 7°



| Misura | Dimensioni (mm) |      |         |
|--------|-----------------|------|---------|
|        | d               | t    | r       |
| 06     | 6.35            | 2.38 | 0.1-0.8 |
| 09     | 9.52            | 3.97 | 0.1-0.8 |
| 12     | 12.7            | 4.76 | 0.4-1.2 |
|        |                 |      |         |
|        |                 |      |         |
|        |                 |      |         |
|        |                 |      |         |

| Inserto                                                                                                      | Descrizione    | Avanz.<br>(mm/giro) | ap<br>(mm) | Cermet |        |        |        |        |        |        |        |        |        |        |        |        | Rivestito CVD |        |        |        | Rivestito PVD |     |     |   | Non rivestito |  |  |
|--------------------------------------------------------------------------------------------------------------|----------------|---------------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|---------------|-----|-----|---|---------------|--|--|
|                                                                                                              |                |                     |            | PV3010 | CT3000 | TT7005 | TT7015 | TT7310 | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235 | TT5100 | TT7100 | TT5080        | TT8020 | TT9020 | TT9080 | P20           | K10 | K20 |   |               |  |  |
| <br><br>Per finitura        | CCGT 060201 SA | 0.02-0.15           | 0.1-1.5    |        |        |        |        |        |        |        |        |        |        |        |        |        | ●             | ●      |        |        |               |     |     |   |               |  |  |
|                                                                                                              | 060202 SA      | 0.02-0.15           | 0.1-1.5    |        |        |        |        |        |        |        |        |        |        |        |        |        | ●             | ●      |        |        |               |     |     |   |               |  |  |
|                                                                                                              | 060204 SA      | 0.03-0.20           | 0.1-2.4    |        |        |        |        |        |        |        |        |        |        |        |        |        | ●             | ●      |        |        |               |     |     |   |               |  |  |
|                                                                                                              | 09T301 SA      | 0.02-0.15           | 0.1-2.5    |        |        |        |        |        |        |        |        |        |        |        |        |        | ●             | ●      |        |        |               |     |     |   |               |  |  |
|                                                                                                              | 09T302 SA      | 0.02-0.15           | 0.1-2.5    |        |        |        |        |        |        |        |        |        |        |        |        |        | ●             | ●      |        |        |               |     |     |   |               |  |  |
|                                                                                                              | 09T304 SA      | 0.03-0.20           | 0.1-2.5    |        |        |        |        |        |        |        |        |        |        |        |        |        | ●             | ●      |        |        |               |     |     |   |               |  |  |
|                                                                                                              | 09T308 SA      | 0.03-0.25           | 0.1-2.5    |        |        |        |        |        |        |        |        |        |        |        |        |        | ●             | ●      |        |        |               |     |     |   |               |  |  |
| <br><br>Per finitura        | CCMT 060202 FA | 0.05-0.15           | 0.1-1.5    | ●      |        |        |        |        |        |        |        |        | ●      |        | ●      |        | ●             |        |        |        |               |     |     |   |               |  |  |
|                                                                                                              | 060204 FA      | 0.05-0.15           | 0.1-1.5    | ●      | ●      |        |        |        |        | ●      |        |        |        |        |        |        | ●             | ●      |        |        |               |     |     |   |               |  |  |
|                                                                                                              | 09T302 FA      | 0.05-0.15           | 0.1-2.0    | ●      | ●      |        |        |        |        |        |        |        |        |        |        | ●      | ●             |        |        |        |               |     |     |   |               |  |  |
|                                                                                                              | 09T304 FA      | 0.05-0.20           | 0.1-2.0    | ●      | ●      |        |        |        |        | ●      |        |        |        |        |        | ●      | ●             | ●      |        |        |               |     |     |   |               |  |  |
|                                                                                                              | 09T308 FA      | 0.10-0.25           | 0.2-2.0    |        |        |        |        |        |        | ●      |        |        |        |        |        |        | ●             |        |        |        |               |     |     |   |               |  |  |
| <br><br>Per finitura       | CCMT 060204 FG | 0.05-0.15           | 0.3-1.5    | ●      | ●      |        |        |        |        | ●      |        |        | ●      | ●      | ●      |        | ●             | ●      |        |        |               |     |     |   |               |  |  |
|                                                                                                              | 09T304 FG      | 0.07-0.20           | 0.4-2.0    | ●      | ●      | ●      |        |        |        | ●      | ●      |        | ●      | ●      | ●      |        | ●             | ●      |        | ●      |               |     |     |   |               |  |  |
|                                                                                                              | 09T308 FG      | 0.10-0.25           | 0.6-2.0    | ●      | ●      |        |        |        |        | ●      | ●      |        | ●      | ●      | ●      |        | ●             | ●      |        |        |               |     |     |   |               |  |  |
|                                                                                                              | 120408 FG ✓    | 0.10-0.25           | 0.6-2.0    |        |        |        |        |        |        | ●      |        |        |        |        | ●      |        |               |        |        |        |               |     |     |   |               |  |  |
|                                                                                                              |                |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |   |               |  |  |
| <br><br>Lav. Medie        | CCMT 060204 MT | 0.07-0.20           | 0.5-2.0    | ●      | ●      | ●      | ●      | ○      | ●      | ●      |        |        | ●      | ●      | ●      |        | ●             | ●      |        |        |               |     |     | ● |               |  |  |
|                                                                                                              | 060208 MT      | 0.13-0.30           | 0.7-2.0    |        | ●      | ●      | ●      | ○      | ●      | ●      | ●      |        |        |        | ●      |        | ●             |        |        | ●      |               |     |     |   |               |  |  |
|                                                                                                              | 09T304 MT      | 0.10-0.25           | 0.7-3.5    | ●      | ●      | ●      | ●      | ○      | ●      | ●      |        |        | ●      | ●      | ●      |        | ●             | ●      |        |        |               |     |     |   |               |  |  |
|                                                                                                              | 09T308 MT      | 0.13-0.30           | 1.0-3.5    |        | ●      | ●      | ●      | ○      | ●      | ●      | ●      |        | ●      | ●      | ●      |        | ●             | ●      |        |        |               |     |     |   |               |  |  |
|                                                                                                              | 120404 MT      | 0.10-0.25           | 1.0-5.0    |        | ●      | ●      | ●      | ○      | ●      | ●      |        |        |        |        | ●      |        |               | ●      |        |        |               |     |     |   |               |  |  |
|                                                                                                              | 120408 MT      | 0.13-0.30           | 1.3-5.0    |        | ●      | ●      | ●      | ○      | ●      | ●      | ●      |        | ●      | ●      | ●      |        | ●             | ●      |        |        |               |     |     |   |               |  |  |
|                                                                                                              | 120412 MT      | 0.17-0.35           | 1.5-5.0    |        |        | ●      |        |        |        | ●      | ●      |        |        |        |        |        |               |        |        |        |               |     |     |   |               |  |  |
| <br><br>Per Semi Finiture | CCMT 060204 PC | 0.06-0.18           | 0.3-2.0    |        | ●      |        |        |        |        | ●      | ●      |        | ●      |        |        |        |               |        |        | ●      |               |     |     |   |               |  |  |
|                                                                                                              | 060208 PC      | 0.08-0.25           | 0.4-2.0    |        | ●      |        |        |        |        |        | ●      | ●      |        | ●      |        |        |               |        |        | ●      |               |     |     |   |               |  |  |
|                                                                                                              | 09T304 PC      | 0.08-0.25           | 0.35-3.0   |        | ●      |        |        |        |        |        | ●      | ●      |        | ●      |        | ●      |               |        |        | ●      |               |     |     |   |               |  |  |
|                                                                                                              | 09T308 PC      | 0.10-0.28           | 0.5-3.0    |        |        |        |        |        |        |        | ●      | ●      |        | ●      |        |        |               |        |        | ●      |               |     |     |   |               |  |  |
|                                                                                                              | 120404 PC      | 0.08-0.25           | 0.4-4.0    |        | ●      |        |        |        |        |        | ●      | ●      |        | ●      |        |        |               |        |        | ●      |               |     |     |   |               |  |  |
|                                                                                                              | 120408 PC      | 0.10-0.30           | 0.7-4.0    |        | ●      |        |        |        |        |        |        | ●      | ●      |        | ●      |        |               |        |        | ●      |               |     |     |   |               |  |  |
|                                                                                                              | 120412 PC      | 0.12-0.35           | 1.0-4.0    |        |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        | ●             |     |     |   |               |  |  |
| <br><br>Lav. Medie        | CCMT 09T308 WT | 0.10-0.40           | 0.7-3.0    |        |        | ●      |        |        |        | ●      | ●      |        |        |        |        |        |               |        |        |        |               |     |     |   |               |  |  |
|                                                                                                              |                |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |   |               |  |  |
|                                                                                                              |                |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |   |               |  |  |

✓ : Rompitrucciolo vecchio tipo

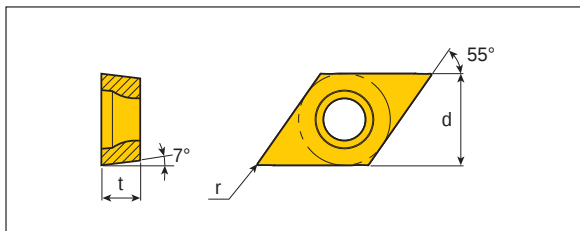
● : Standard ○ : Semi Standard





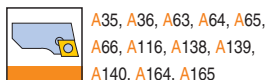
# T-TURN DCET DCGT DCMT

## Inserti Rombici Positivi a 7°



| Misura | Dimensioni (mm) |      |          |
|--------|-----------------|------|----------|
|        | d               | t    | r        |
| 07     | 6.35            | 2.38 | 0.03-0.8 |
| 11     | 9.52            | 3.97 | 0.03-0.8 |
|        |                 |      |          |
|        |                 |      |          |
|        |                 |      |          |
|        |                 |      |          |
|        |                 |      |          |

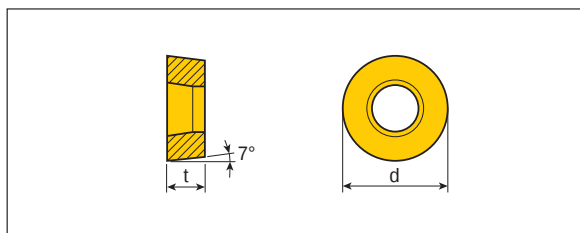
| Inserto                                                                                                                                                                                           | Descrizione       | Avanz.<br>(mm/giro) | ap<br>(mm) | Cermet |        | Rivestito CVD |        |        |        |        |        |        |        |        |        | Rivestito PVD |        |        | Non rivestito |        |     |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------------|------------|--------|--------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|---------------|--------|-----|-----|
|                                                                                                                                                                                                   |                   |                     |            | PV3010 | CT3000 | TT7005        | TT7015 | TT7310 | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235 | TT5100 | TT7100        | TT5080 | TT8020 | TT9020        | TT9080 | P20 | K10 |
| <br><br>In figura destro<br>Per finitura                                                                         | DCET 070201 L-GF  | 0.02-0.15           | 0.2-1.5    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
|                                                                                                                                                                                                   | 070201 R-GF       | 0.02-0.15           | 0.2-1.5    |        |        |               |        |        |        |        |        |        |        |        |        |               | ●      |        |               |        |     |     |
|                                                                                                                                                                                                   | 070202 L-GF       | 0.03-0.17           | 0.3-1.5    |        |        |               |        |        |        |        |        |        |        |        |        |               | ●      |        |               |        |     |     |
|                                                                                                                                                                                                   | 070202 R-GF       | 0.03-0.17           | 0.3-1.5    |        |        |               |        |        |        |        |        |        |        |        |        |               | ●      |        |               |        |     |     |
|                                                                                                                                                                                                   | 070204 L-GF       | 0.05-0.20           | 0.3-1.5    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
|                                                                                                                                                                                                   | 070204 R-GF       | 0.05-0.20           | 0.3-1.5    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
|                                                                                                                                                                                                   | 11T301 L-GF       | 0.02-0.15           | 0.2-2.5    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
|                                                                                                                                                                                                   | 11T301 R-GF       | 0.02-0.15           | 0.2-2.5    |        |        |               |        |        |        |        |        |        |        |        |        |               | ●      |        |               |        |     |     |
|                                                                                                                                                                                                   | 11T302 L-GF       | 0.03-0.17           | 0.3-2.5    |        |        |               |        |        |        |        |        |        |        |        |        |               | ●      |        |               |        |     |     |
|                                                                                                                                                                                                   | 11T302 R-GF       | 0.03-0.17           | 0.3-2.5    |        |        |               |        |        |        |        |        |        |        |        |        |               | ●      |        |               |        |     |     |
|                                                                                                                                                                                                   | 11T304 L-GF       | 0.05-0.20           | 0.3-2.5    |        |        |               |        |        |        |        |        |        |        |        |        |               | ●      |        |               |        |     |     |
|                                                                                                                                                                                                   | 11T304 R-GF       | 0.05-0.20           | 0.3-2.5    |        |        |               |        |        |        |        |        |        |        |        |        |               | ●      | ●      |               |        |     |     |
| <br><br>In figura destro<br>Per finitura<br>Può essere usato solo<br>su utensili con angolo<br>di attacco a 93° | DCET 0702003 L-GW | 0.02-0.15           | 0.1-1.5    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
|                                                                                                                                                                                                   | 0702003 R-GW      | 0.02-0.15           | 0.1-1.5    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
|                                                                                                                                                                                                   | 11T3003 L-GW      | 0.02-0.15           | 0.1-2.5    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
|                                                                                                                                                                                                   | 11T3003 R-GW      | 0.02-0.15           | 0.1-1.5    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
|                                                                                                                                                                                                   |                   |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
|                                                                                                                                                                                                   |                   |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
|                                                                                                                                                                                                   |                   |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
| <br><br>Per finitura                                                                                           | DCGT 070201 SA    | 0.02-0.15           | 0.1-1.5    |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
|                                                                                                                                                                                                   | 070202 SA         | 0.02-0.15           | 0.1-1.5    |        |        |               |        |        |        |        |        |        |        |        |        | ●             | ●      |        |               |        |     |     |
|                                                                                                                                                                                                   | 070204 SA         | 0.03-0.20           | 0.1-1.5    |        |        |               |        |        |        |        |        |        |        |        |        | ●             | ●      |        |               |        |     |     |
|                                                                                                                                                                                                   | 11T301 SA         | 0.01-0.05           | 0.1-2.5    |        |        |               |        |        |        |        |        |        |        |        |        | ●             | ●      |        |               |        |     |     |
|                                                                                                                                                                                                   | 11T302 SA         | 0.02-0.15           | 0.1-2.5    |        |        |               |        |        |        |        |        |        |        |        |        | ●             | ●      |        |               |        |     |     |
|                                                                                                                                                                                                   | 11T304 SA         | 0.03-0.20           | 0.1-2.5    |        |        |               |        |        |        |        |        |        |        |        |        | ●             | ●      |        |               |        |     |     |
| <br><br>Per finitura                                                                                           | DCMT 070202 FA    | 0.05-0.15           | 0.1-1.5    | ●      | ●      |               |        |        |        |        |        |        | ●      |        | ●      |               |        | ●      |               |        |     |     |
|                                                                                                                                                                                                   | 11T302 FA         | 0.05-0.15           | 0.1-1.5    | ●      | ●      |               |        |        |        |        |        | ●      |        | ●      |        | ●             |        |        |               |        |     |     |
|                                                                                                                                                                                                   |                   |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
| <br><br>Per finitura                                                                                           | DCMT 070204 FG    | 0.07-0.20           | 0.4-1.5    | ●      | ●      |               |        |        | ●      | ●      |        | ●      |        | ●      |        | ●             | ●      |        | ●             |        |     |     |
|                                                                                                                                                                                                   | 070208 FG         | 0.07-0.20           | 0.4-2.0    | ●      | ●      |               |        |        | ●      | ●      |        | ●      |        | ●      |        | ●             | ●      |        |               |        |     |     |
|                                                                                                                                                                                                   | 11T304 FG         | 0.10-0.25           | 0.6-1.5    | ●      | ●      |               |        |        | ●      | ●      | ●      | ●      | ●      | ●      | ●      | ●             | ●      |        | ●             |        |     |     |
|                                                                                                                                                                                                   | 11T308 FG         | 0.10-0.25           | 0.6-2.0    | ●      | ●      |               |        |        | ●      | ●      |        | ●      | ●      | ●      | ●      | ●             |        |        |               |        |     |     |
|                                                                                                                                                                                                   |                   |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
|                                                                                                                                                                                                   |                   |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |



● : Standard ○ : Semi Standard



## Inserti Tondi Positivi a 7°

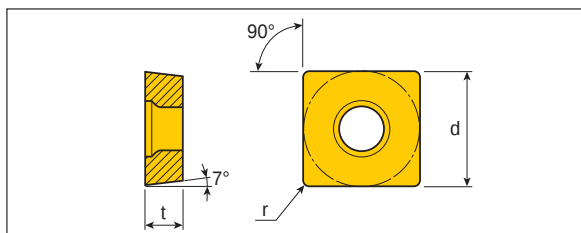


| Misura | Dimensioni (mm) |           |  |
|--------|-----------------|-----------|--|
|        | d               | t         |  |
| 08     | 8.0             | 3.18      |  |
| 10     | 10.0            | 3.18-3.97 |  |
| 12     | 12.0            | 4.76      |  |
| 16     | 16.0            | 6.35      |  |
| 20     | 20.0            | 6.35      |  |
| 25     | 25.0            | 7.94      |  |
| 32     | 32.0            | 9.52      |  |

| Inserto                                                                                                    | Descrizione | Avanz.<br>(mm/giro) | ap<br>(mm) | Cermet   |        | Rivestito CVD |        |        |        |        |        |        |        |        |        | Rivestito PVD |        |        | Non rivestito |        |     |     |     |
|------------------------------------------------------------------------------------------------------------|-------------|---------------------|------------|----------|--------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|---------------|--------|-----|-----|-----|
|                                                                                                            |             |                     |            | PV3010   | CT3000 | TT7005        | TT7015 | TT7310 | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235 | TT5100 | TT7100        | TT5080 | TT8020 | TT9020        | TT9080 | P20 | K10 | K20 |
| <br><br>Lav. Medie        | RCMT        | 080300 MT           | 0.15-0.40  | 0.5-3.0  |        |               |        |        |        |        | ●      |        |        |        |        |               |        |        |               |        |     |     |     |
|                                                                                                            |             | 10T300 MT           | 0.20-0.50  | 1.0-4.0  |        |               | ●      |        |        |        | ●      | ●      |        |        | ●      |               |        |        |               |        |     |     |     |
|                                                                                                            |             | 120400 MT           | 0.30-0.60  | 2.0-5.0  |        |               | ●      | ●      | ○      | ●      | ●      |        |        |        |        |               |        |        |               |        |     |     |     |
|                                                                                                            |             | 160600 MT           | 0.40-0.80  | 3.0-7.0  |        |               |        |        |        |        | ●      |        |        |        |        |               |        |        |               |        |     |     |     |
|                                                                                                            |             |                     |            |          |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |     |
| <br><br>Per Semi Finiture | RCMT        | 120400 PC           | 0.20-0.60  | 1.3-4.5  |        |               |        |        |        | ●      | ●      |        |        |        |        |               | ●      |        |               |        |     |     |     |
|                                                                                                            |             |                     |            |          |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |     |
|                                                                                                            |             |                     |            |          |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |     |
|                                                                                                            |             |                     |            |          |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |     |
| <br><br>Per sgrossatura   | RCMX        | 100300              | 0.25-0.50  | 1.5-4.0  |        |               |        | ●      | ○      | ●      | ●      |        |        |        |        | ●             |        |        |               |        |     |     |     |
|                                                                                                            |             | 120400              | 0.30-0.60  | 2.5-5.0  |        |               |        |        |        | ●      | ●      |        |        |        |        | ●             |        |        |               |        |     |     |     |
|                                                                                                            |             | 160600              | 0.40-0.75  | 3.0-7.0  |        |               | ●      | ●      |        | ●      | ●      |        |        |        |        | ●             |        |        |               |        | ●   |     |     |
|                                                                                                            |             | 200600              | 0.48-0.90  | 3.5-9.0  |        |               | ●      | ●      | ○      | ●      | ●      | ●      |        |        |        |               |        |        |               |        |     |     |     |
|                                                                                                            |             | 250700              | 0.55-1.20  | 4.0-12.0 |        |               | ●      | ●      | ○      | ●      | ●      |        |        |        |        | ●             |        |        |               |        |     |     |     |
|                                                                                                            |             | 320900              | 0.65-1.50  | 5.0-15.0 |        |               |        |        |        | ●      | ●      |        |        |        |        |               |        |        |               |        |     |     |     |
|                                                                                                            |             |                     |            |          |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |     |
| <br><br>Per sgrossatura | RCMX        | 100300 RA           | 0.20-0.50  | 1.0-4.0  |        |               |        |        |        |        | ●      | ●      |        |        |        |               |        |        |               |        |     |     |     |
|                                                                                                            |             | 120400 RA           | 0.25-0.60  | 2.0-5.0  |        |               |        |        |        |        | ●      | ●      | ●      |        |        |               |        |        |               |        |     |     |     |
|                                                                                                            |             | 160600 RA           | 0.35-0.75  | 2.5-7.0  |        |               |        |        |        |        | ●      | ●      | ●      |        |        |               |        |        |               |        |     |     |     |
|                                                                                                            |             | 200600 RA           | 0.40-0.90  | 3.0-9.0  |        |               |        |        |        |        | ●      | ●      |        |        |        |               |        |        |               |        |     |     |     |
|                                                                                                            |             | 250700 RA           | 0.50-1.20  | 3.5-12.0 |        |               |        |        |        |        | ●      | ●      |        |        |        |               |        |        |               |        |     |     |     |
|                                                                                                            |             | 320900 RA           | 0.60-1.50  | 4.0-15.0 |        |               |        |        |        |        |        | ●      |        |        |        |               |        |        |               |        |     |     |     |
|                                                                                                            |             |                     |            |          |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |     |
|                                                                                                            |             |                     |            |          |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |     |
|                                                                                                            |             |                     |            |          |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |     |
|                                                                                                            |             |                     |            |          |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |     |
|                                                                                                            |             |                     |            |          |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |     |
|                                                                                                            |             |                     |            |          |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |     |

● : Standard ○ : Semi Standard

## Inserti Quadri Positivi a 7°



| Misura | Dimensioni (mm) |      |         |
|--------|-----------------|------|---------|
|        | d               | t    | r       |
| 09     | 9.52            | 3.97 | 0.4-0.8 |
| 12     | 12.7            | 4.76 | 0.4-1.2 |
|        |                 |      |         |
|        |                 |      |         |
|        |                 |      |         |
|        |                 |      |         |
|        |                 |      |         |

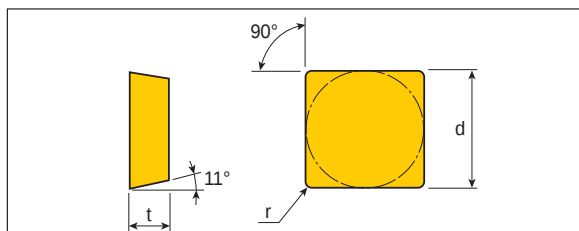
| Inserto                                                                                                     | Descrizione    | Avanz.<br>(mm/giro) | ap<br>(mm) | Cermet |        | Rivestito CVD |        |        |        |        |        |        |        |        |        | Rivestito PVD |        |        |        | Non rivestito |     |     |     |  |
|-------------------------------------------------------------------------------------------------------------|----------------|---------------------|------------|--------|--------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|---------------|-----|-----|-----|--|
|                                                                                                             |                |                     |            | PV3010 | CT3000 | TT7005        | TT7015 | TT7310 | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235 | TT5100 | TT7100        | TT5080 | TT8020 | TT9020 | TT9080        | P20 | K10 | K20 |  |
| <br><br>Per finitura       | SCMT 09T304 FG | 0.08-0.25           | 0.60-2.0   |        |        |               |        |        |        |        |        |        |        | ●      |        |               |        |        |        |               |     |     |     |  |
|                                                                                                             | 09T308 FG      | 0.10-0.25           | 0.60-2.0   |        |        |               |        |        |        |        | ●      |        |        | ●      |        | ●             | ●      |        |        |               |     |     |     |  |
|                                                                                                             |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |
|                                                                                                             |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |
| <br><br>Lav. Medie         | SCMT 09T304 MT | 0.10-0.25           | 0.70-3.5   | ●      |        |               | ●      | ○      | ●      | ●      |        |        | ●      |        | ●      |               |        | ●      |        |               |     |     |     |  |
|                                                                                                             | 09T308 MT      | 0.13-0.30           | 1.00-3.5   | ●      | ●      | ●             | ○      | ●      | ●      |        |        |        | ●      | ●      | ●      |               | ●      | ●      |        |               |     |     |     |  |
|                                                                                                             | 120404 MT      | 0.10-0.25           | 1.00-5.0   | ●      | ●      |               |        |        | ●      | ●      |        |        |        |        | ●      |               |        |        |        |               |     |     |     |  |
|                                                                                                             | 120408 MT      | 0.13-0.30           | 1.00-5.0   | ●      |        | ●             | ○      | ●      | ●      |        |        |        | ●      | ●      | ●      |               | ●      | ●      |        |               |     |     |     |  |
|                                                                                                             | 120412 MT      | 0.15-0.35           | 1.00-5.0   |        |        |               |        |        |        |        |        |        |        |        |        |               |        | ●      |        |               |     |     |     |  |
|                                                                                                             |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |
| <br><br>Per Semi Finiture | SCMT 09T304 PC | 0.08-0.25           | 0.35-3.0   | ●      |        |               |        |        |        | ●      |        |        |        |        |        |               |        |        |        | ●             |     |     |     |  |
|                                                                                                             | 09T308 PC      | 0.10-0.28           | 0.50-3.0   | ●      |        |               |        |        |        | ●      |        | ●      |        |        |        |               |        |        |        | ●             |     |     |     |  |
|                                                                                                             | 120404 PC      | 0.08-0.25           | 0.40-4.0   |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |
|                                                                                                             | 120408 PC      | 0.10-0.30           | 0.70-4.0   |        |        |               |        |        | ●      |        |        |        |        |        |        |               |        |        |        | ●             |     |     |     |  |
|                                                                                                             | 120412 PC      | 0.12-0.35           | 1.00-4.0   |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |
|                                                                                                             |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |
|                                                                                                             |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |
|                                                                                                             |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |
|                                                                                                             |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |
|                                                                                                             |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |
|                                                                                                             |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |
|                                                                                                             |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |
|                                                                                                             |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |
|                                                                                                             |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |
|                                                                                                             |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |
|                                                                                                             |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |
|                                                                                                             |                |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |

●: Standard ○: Semi Standard



A67, A68,  
A140, A178

## Inserti Quadri Positivi a 11°

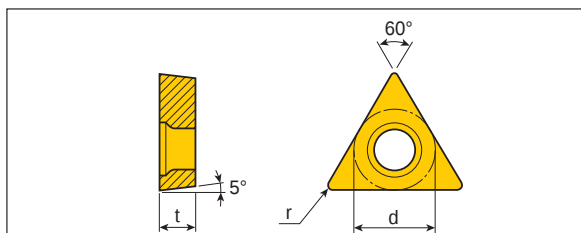


| Misura | Dimensioni (mm) |           |         |
|--------|-----------------|-----------|---------|
|        | d               | t         | r       |
| 09     | 9.52            | 3.18      | 0.4-0.8 |
| 12     | 12.7            | 3.18-4.76 | 0.4-1.6 |
| 15     | 15.88           | 4.76      | 0.4-1.2 |
| 19     | 19.05           | 4.76      | 0.4-1.2 |
|        |                 |           |         |
|        |                 |           |         |

| Inserto                                                                                           | Descrizione | Avanz.<br>(mm/giro) | ap<br>(mm) | Cermet  |        | Rivestito CVD |        |        |        |        |        |        |        |        |        | Riv. PVD |        |        | Non rivestito |     |     |     |     |   |  |
|---------------------------------------------------------------------------------------------------|-------------|---------------------|------------|---------|--------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--------|--------|---------------|-----|-----|-----|-----|---|--|
|                                                                                                   |             |                     |            | PV3010  | CT3000 | TT7005        | TT7015 | TT7310 | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235 | TT5100 | TT7100   | TT5080 | TT8020 | TT9020        | P20 | P30 | K10 | K20 |   |  |
| <br>Per finitura | SPGN        | 090304              | 0.08-0.20  | 0.7-3.5 |        |               |        |        |        |        |        |        |        |        |        |          |        |        |               |     |     |     | ●   |   |  |
|                                                                                                   |             | 090308              | 0.10-0.25  | 0.7-3.5 |        |               |        |        |        |        |        |        |        |        |        |          |        |        |               |     |     |     | ●   |   |  |
|                                                                                                   |             | 120304              | 0.08-0.20  | 1.0-5.0 |        |               |        |        |        |        |        |        |        |        |        |          |        |        |               | ●   |     | ●   |     |   |  |
|                                                                                                   |             | 120308              | 0.10-0.25  | 1.0-5.0 |        |               |        |        | ●      | ●      |        |        |        |        |        |          |        |        |               | ●   |     | ●   |     |   |  |
|                                                                                                   |             | 120312              | 0.15-0.30  | 1.0-5.0 |        |               |        |        |        |        |        |        |        |        |        |          |        |        |               |     |     |     |     |   |  |
|                                                                                                   |             | 120404              | 0.08-0.20  | 1.0-5.0 |        |               |        |        |        |        |        |        |        |        |        |          |        |        |               |     |     |     |     | ● |  |
|                                                                                                   |             | 120408              | 0.10-0.25  | 1.0-5.0 |        |               |        |        |        |        |        |        |        |        |        |          |        |        |               |     |     |     |     |   |  |
|                                                                                                   |             | 120412              | 0.15-0.30  | 1.0-5.0 |        |               |        |        |        |        |        |        |        |        |        |          |        |        |               |     |     |     |     |   |  |
|                                                                                                   |             | 120416              | 0.18-0.33  | 1.0-5.0 |        |               |        |        |        |        |        |        |        |        |        |          |        |        |               |     |     |     |     |   |  |
|                                                                                                   |             | 150404              | 0.08-0.20  | 1.5-7.0 |        |               |        |        | ●      |        |        |        |        |        |        |          |        |        |               | ●   |     | ●   |     |   |  |
|                                                                                                   |             | 150408              | 0.10-0.25  | 1.5-7.0 |        |               |        |        |        |        |        |        |        |        |        |          |        |        |               | ●   |     |     |     |   |  |
|                                                                                                   |             | 150412              | 0.15-0.30  | 1.5-7.0 |        |               |        |        |        |        |        |        |        |        |        |          |        |        |               |     |     |     |     |   |  |
|                                                                                                   |             | 190404              | 0.08-0.20  | 1.5-9.0 |        |               |        |        |        |        |        |        |        |        |        |          |        |        |               |     |     |     |     |   |  |
|                                                                                                   |             | 190408              | 0.10-0.25  | 1.5-9.0 |        |               |        |        |        |        |        |        |        |        |        |          |        |        |               | ●   |     | ●   |     |   |  |
|                                                                                                   |             |                     |            |         |        |               |        |        |        |        |        |        |        |        |        |          |        |        |               |     |     |     |     |   |  |
|                                                                                                   |             |                     |            |         |        |               |        |        |        |        |        |        |        |        |        |          |        |        |               |     |     |     |     |   |  |
| <br>Lav. Medie | SPMR        | 090304              | 0.10-0.25  | 0.7-3.5 |        |               |        |        |        |        |        |        |        |        |        |          |        |        |               |     |     |     |     |   |  |
|                                                                                                   |             | 090308              | 0.13-0.30  | 1.0-3.5 |        |               |        |        |        | ●      |        |        |        |        |        |          |        |        |               |     |     |     |     |   |  |
|                                                                                                   |             | 120304              | 0.10-0.25  | 1.0-5.0 |        |               |        |        |        | ●      |        |        |        | ●      |        |          |        |        |               |     |     |     |     |   |  |
|                                                                                                   |             | 120308              | 0.13-0.30  | 1.0-5.0 |        |               |        |        | ●      | ●      |        |        |        | ●      |        |          |        |        |               |     |     |     |     |   |  |
|                                                                                                   |             |                     |            |         |        |               |        |        |        |        |        |        |        |        |        |          |        |        |               |     |     |     |     |   |  |
| <br>Lav. Medie | SPUN        | 090304              | 0.10-0.30  | 1.0-3.5 |        |               |        |        |        |        |        |        |        |        |        |          |        |        |               |     |     |     |     |   |  |
|                                                                                                   |             | 090308              | 0.15-0.40  | 1.0-3.5 |        |               |        |        |        |        |        |        |        |        |        |          |        |        |               |     |     |     |     |   |  |
|                                                                                                   |             | 120304              | 0.10-0.30  | 1.0-5.0 |        |               |        |        |        | ●      |        |        |        |        |        |          |        |        |               | ●   |     |     |     |   |  |
|                                                                                                   |             | 120308              | 0.15-0.40  | 1.0-5.0 | ●      |               |        |        | ●      | ●      |        |        |        |        |        |          |        |        |               |     |     | ●   |     |   |  |
|                                                                                                   |             | 120312              | 0.20-0.50  | 1.0-5.0 |        |               |        |        |        |        |        |        |        |        |        |          |        |        |               |     |     |     |     |   |  |
|                                                                                                   |             | 150404              | 0.10-0.30  | 1.5-7.0 |        |               |        |        |        |        |        |        |        |        |        |          |        |        |               |     |     |     |     |   |  |
|                                                                                                   |             | 190412              | 0.20-0.50  | 1.5-9.0 |        |               |        |        |        |        |        |        |        |        |        |          |        |        |               |     |     |     |     |   |  |
|                                                                                                   |             |                     |            |         |        |               |        |        |        |        |        |        |        |        |        |          |        |        |               |     |     |     |     |   |  |
|                                                                                                   |             |                     |            |         |        |               |        |        |        |        |        |        |        |        |        |          |        |        |               |     |     |     |     |   |  |
|                                                                                                   |             |                     |            |         |        |               |        |        |        |        |        |        |        |        |        |          |        |        |               |     |     |     |     |   |  |
|                                                                                                   |             |                     |            |         |        |               |        |        |        |        |        |        |        |        |        |          |        |        |               |     |     |     |     |   |  |
|                                                                                                   |             |                     |            |         |        |               |        |        |        |        |        |        |        |        |        |          |        |        |               |     |     |     |     |   |  |
|                                                                                                   |             |                     |            |         |        |               |        |        |        |        |        |        |        |        |        |          |        |        |               |     |     |     |     |   |  |
|                                                                                                   |             |                     |            |         |        |               |        |        |        |        |        |        |        |        |        |          |        |        |               |     |     |     |     |   |  |

● : Standard ○ : Semi Standard

### Inserti Triangolari Positivi a 5°



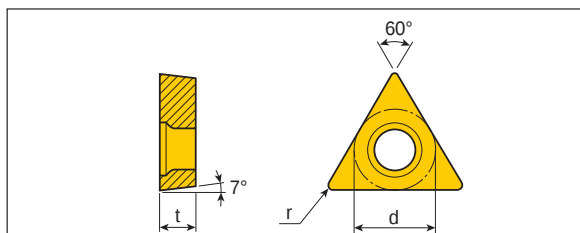
| Misura    | Dimensioni (mm) |      |          |
|-----------|-----------------|------|----------|
|           | d               | t    | r        |
| <b>06</b> | 3.97            | 1.59 | 0.03-0.4 |
|           |                 |      |          |
|           |                 |      |          |
|           |                 |      |          |
|           |                 |      |          |

[illegible]

●: Standard ○: Semi Standard

# T-TURN TCET TCGT TCMT

## Inserti Triangolari Positivi a 7°



| Misura | Dimensioni (mm) |           |         |
|--------|-----------------|-----------|---------|
|        | d               | t         | r       |
| 06     | 3.97            | 1.98      | 0.2     |
| 09     | 5.56            | 2.38      | 0.4-0.8 |
| 11     | 6.35            | 2.38-3.18 | 0.1-0.8 |
| 16     | 9.52            | 3.97      | 0.4-1.2 |
| 22     | 12.7            | 4.76      | 0.8     |
|        |                 |           |         |
|        |                 |           |         |

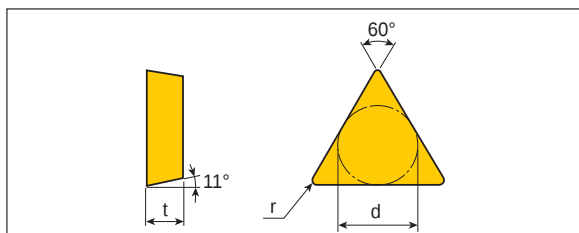
| Inserto                                                                                                               | Descrizione | Avanz.<br>(mm/giro) | ap<br>(mm) | Cermet   |        | Rivestito CVD |        |        |        |        |        |        |        |        |        | Rivestito PVD |        |        |        | Non rivestito |     |     |
|-----------------------------------------------------------------------------------------------------------------------|-------------|---------------------|------------|----------|--------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|---------------|-----|-----|
|                                                                                                                       |             |                     |            | PV3010   | CT3000 | TT7005        | TT7015 | TT7310 | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235 | TT5100 | TT7100        | TT5080 | TT8020 | TT9020 | TT9080        | P20 | K10 |
| <br>In figura destro<br>Per finitura | TCET        | 110301 L-GF         | 0.02-0.15  | 0.2-1.5  |        |               |        |        |        |        |        |        |        |        |        |               |        | ●      |        |               |     |     |
|                                                                                                                       |             | 110301 R-GF         | 0.02-0.15  | 0.2-1.5  |        |               |        |        |        |        |        |        |        |        |        |               |        | ●      |        |               |     |     |
|                                                                                                                       |             | 110302 L-GF         | 0.03-0.17  | 0.3-1.5  |        |               |        |        |        |        |        |        |        |        |        |               |        | ●      |        |               |     |     |
|                                                                                                                       |             | 110302 R-GF         | 0.03-0.17  | 0.3-1.5  |        |               |        |        |        |        |        |        |        |        |        |               |        | ●      |        |               |     |     |
|                                                                                                                       |             | 110304 R-GF         | 0.05-0.20  | 0.5-1.5  |        |               |        |        |        |        |        |        |        |        |        |               |        | ●      |        |               |     |     |
|                                                                                                                       |             |                     |            |          |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
| <br>Per finitura                     | TCGT        | 110201 SA           | 0.01-0.05  | 0.1-2.5  |        |               |        |        |        |        |        |        |        |        |        |               | ●      | ●      |        |               |     |     |
|                                                                                                                       |             | 110202 SA           | 0.02-0.15  | 0.2-2.5  | ●      |               |        |        |        |        |        |        |        |        |        |               | ●      | ●      |        |               |     |     |
|                                                                                                                       |             | 110204 SA           | 0.03-0.20  | 0.2-2.5  |        |               |        |        |        |        |        |        |        |        |        |               | ●      | ●      |        |               |     |     |
| <br>Per finitura                     | TCMT        | 06T102 FA           | 0.03-0.15  | 0.4-1.2  | ●      |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                       |             | 110202 FA           | 0.03-0.15  | 0.1-1.5  | ●      |               |        |        |        | ●      |        |        |        |        |        |               | ●      |        |        | ●             |     |     |
|                                                                                                                       |             | 110204 FA           | 0.05-0.15  | 0.1-1.5  | ●      |               |        |        |        |        |        |        |        | ●      |        |               |        |        |        |               |     |     |
| <br>Per finitura                    | TCMT        | 090208 FG           | 0.10-0.25  | 0.6-1.5  | ●      | ●             |        |        |        |        | ●      |        |        |        | ●      |               |        |        |        |               |     |     |
|                                                                                                                       |             | 110204 FG           | 0.07-0.20  | 0.4-1.5  | ●      | ●             |        |        |        |        | ●      |        |        | ●      | ●      | ●             | ●      | ●      |        |               |     |     |
|                                                                                                                       |             | 110208 FG           | 0.10-0.25  | 0.6-1.5  | ●      | ●             |        |        |        |        | ●      |        |        | ●      |        | ●             | ●      |        |        |               |     |     |
|                                                                                                                       |             | 16T304 FG           | 0.07-0.20  | 0.4-2.0  | ●      | ●             |        |        |        |        | ●      |        |        | ●      |        |               | ●      |        |        |               |     |     |
|                                                                                                                       |             | 16T308 FG           | 0.10-0.25  | 0.6-2.0  | ●      |               |        |        |        | ●      | ●      |        | ●      | ●      |        |               |        |        |        |               |     |     |
| <br><b>OLD</b><br>Lav. Medie       | TCMT        | 090204 MT ✓         | 0.10-0.25  | 0.6-2.0  | ●      | ●             | ●      | ●      | ○      | ●      | ●      |        | ●      | ●      | ●      |               | ●      | ●      |        |               |     |     |
|                                                                                                                       |             | 090208 MT ✓         | 0.13-0.30  | 0.8-2.0  | ●      | ●             | ●      | ●      | ○      | ●      | ●      |        |        | ●      |        |               |        |        |        |               |     |     |
|                                                                                                                       |             | 110204 MT ✓         | 0.10-0.25  | 0.6-3.0  | ●      | ●             | ●      | ●      | ○      | ●      | ●      |        | ●      | ●      | ●      |               | ●      | ●      |        |               | ●   |     |
|                                                                                                                       |             | 110208 MT ✓         | 0.13-0.30  | 0.8-3.0  | ●      | ●             | ●      | ●      | ○      | ●      | ●      |        |        | ●      |        | ●             |        | ●      | ●      |               |     |     |
|                                                                                                                       |             | 16T304 MT           | 0.10-0.25  | 0.8-5.0  | ●      | ●             | ●      | ●      | ○      | ●      | ●      |        | ●      | ●      | ●      |               | ●      |        |        |               |     |     |
|                                                                                                                       |             | 16T308 MT           | 0.10-0.30  | 1.0-5.0  | ●      | ●             | ●      | ●      | ○      | ●      | ●      | ●      | ●      | ●      | ●      |               | ●      | ●      |        |               |     |     |
|                                                                                                                       |             | 16T312 MT           | 0.10-0.30  | 1.5-5.0  |        | ●             |        |        |        | ●      | ●      |        | ●      | ●      | ●      |               | ●      | ●      |        |               |     |     |
|                                                                                                                       |             | 220408 MT           | 0.10-0.35  | 2.0-6.0  |        |               |        |        |        | ●      |        |        |        |        |        |               |        |        |        |               |     |     |
| <br>Per Semi Finiture              | TCMT        | 090204 PC           | 0.06-0.18  | 0.3-2.0  | ●      |               |        |        |        | ●      |        |        | ●      |        |        |               |        |        | ●      |               |     |     |
|                                                                                                                       |             | 090208 PC           | 0.08-0.25  | 0.4-2.0  |        |               |        |        |        |        |        |        | ●      |        |        |               |        |        |        |               |     |     |
|                                                                                                                       |             | 110204 PC           | 0.06-0.2   | 0.3-2.5  | ●      |               |        |        |        | ●      | ●      |        | ●      |        |        |               |        |        | ●      |               |     |     |
|                                                                                                                       |             | 110208 PC           | 0.09-0.26  | 0.42-2.5 |        |               |        |        |        | ●      |        |        |        |        |        |               |        |        | ●      |               |     |     |
|                                                                                                                       |             | 16T304 PC           | 0.08-0.25  | 0.35-3.0 |        |               |        |        |        | ●      | ●      |        | ●      |        |        |               |        |        | ●      |               |     |     |
|                                                                                                                       |             | 16T308 PC           | 0.10-0.28  | 0.5-3.0  |        |               |        |        |        | ●      | ●      |        |        |        |        |               |        |        | ●      |               |     |     |
|                                                                                                                       |             | 16T312 PC           | 0.12-0.36  | 0.6-3.0  |        |               |        |        |        |        | ●      |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                                                       |             |                     |            |          |        |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |

✓ : Rompitrucciolo vecchio tipo

● : Standard ○ : Semi Standard

# T-TURN TPGN TPGT TPGX TPMR

## Inserti Triangolari Positivi a 11°



| Misura | Dimensioni (mm) |           |         |
|--------|-----------------|-----------|---------|
|        | d               | t         | r       |
| 09     | 5.56            | 2.38      | 0.2-0.8 |
| 11     | 6.35            | 3.18      | 0.2-0.8 |
| 16     | 9.52            | 3.18-4.76 | 0.2-1.2 |
| 22     | 12.7            | 4.76      | 0.4-3.0 |
| 27     | 15.88           | 6.35      | 0.8     |

| Inserto                                                                                                                   | Descrizione | Avanz.<br>(mm/giro) | ap<br>(mm) | Cermet  |        |        |        | Rivestito CVD |        |        |        |        |        |        |        | Rivestito PVD |        |        |        | Non rivestito |     |     |     |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------|-------------|---------------------|------------|---------|--------|--------|--------|---------------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|---------------|-----|-----|-----|--|--|--|--|
|                                                                                                                           |             |                     |            | PV3010  | CT3000 | TT7005 | TT7015 | TT7310        | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235 | TT5100 | TT7100        | TT5080 | TT8020 | TT9020 | P20           | P30 | K10 | K20 |  |  |  |  |
| <br>Per finitura                         | TPGN        | 090204              | 0.07-0.20  | 0.5-3.0 |        |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |  |  |
|                                                                                                                           |             | 110304              | 0.07-0.20  | 0.7-3.0 | ●      |        |        |               |        |        |        |        |        |        |        |               |        |        |        | ●             |     | ●   |     |  |  |  |  |
|                                                                                                                           |             | 110308              | 0.10-0.25  | 1.0-3.0 |        |        |        |               |        | ●      |        |        |        |        |        |               |        |        |        |               |     |     | ●   |  |  |  |  |
|                                                                                                                           |             | 160302              | 0.05-0.18  | 1.0-5.0 |        |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |  |  |
|                                                                                                                           |             | 160304              | 0.07-0.20  | 1.0-5.0 | ●      |        |        |               |        | ●      |        |        |        |        |        |               |        |        |        |               | ●   |     | ●   |  |  |  |  |
|                                                                                                                           |             | 160308              | 0.10-0.25  | 1.0-5.0 | ●      |        | ●      |               |        | ●      | ●      |        |        |        |        |               |        |        |        |               | ●   |     | ●   |  |  |  |  |
|                                                                                                                           |             | 160312              | 0.15-0.30  | 1.0-5.0 |        |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |  |  |
|                                                                                                                           |             | 220404              | 0.07-0.20  | 1.5-7.0 |        |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               | ●   |     | ●   |  |  |  |  |
|                                                                                                                           |             | 220408              | 0.10-0.25  | 1.5-7.0 |        |        |        |               |        |        |        | ●      |        |        |        |               |        |        |        |               |     |     | ●   |  |  |  |  |
|                                                                                                                           |             | 220412              | 0.15-0.30  | 1.5-7.0 |        |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               | ●   |     |     |  |  |  |  |
|                                                                                                                           |             | 220416              | 0.20-0.35  | 1.5-7.0 |        |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |  |  |
|                                                                                                                           |             | 220425              | 0.25-0.40  | 1.5-7.0 |        |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |  |  |
|                                                                                                                           |             | 220430              | 0.30-0.45  | 1.5-7.0 |        |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |  |  |
|                                                                                                                           |             | 270608              | 0.15-0.25  | 3.0-8.0 |        |        |        |               |        |        | ●      |        |        |        |        |               |        |        |        |               |     |     |     |  |  |  |  |
| <br>In figura destro<br>Per finitura    | TPGT        | 090204 L-C          | 0.05-0.20  | 0.3-1.5 | ●      |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |  |  |
|                                                                                                                           |             | 110304 L-C          | 0.05-0.20  | 0.5-2.0 | ●      |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |  |  |
|                                                                                                                           |             | 110304 R-C          | 0.05-0.20  | 0.5-2.0 | ●      |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |  |  |
|                                                                                                                           |             | 110308 L-C          | 0.07-0.25  | 0.5-2.0 | ●      |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |  |  |
|                                                                                                                           |             | 160404 L-C          | 0.05-0.20  | 0.7-3.0 | ●      |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |  |  |
|                                                                                                                           |             | 160404 R-C          | 0.05-0.20  | 0.7-3.0 | ●      |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |  |  |
|                                                                                                                           |             |                     |            |         |        |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |  |  |
| <br>In figura sinistro<br>Per finitura | TPGX        | 090202 L            | 0.05-0.15  | 0.4-1.5 | ●      |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |  |  |
|                                                                                                                           |             | 090204 L            | 0.08-0.20  | 0.6-1.5 | ●      |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |  |  |
|                                                                                                                           |             | 110302 L            | 0.08-0.20  | 0.5-1.5 | ●      |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |  |  |
|                                                                                                                           |             | 110302 R            | 0.08-0.20  | 0.5-1.5 |        |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |  |  |
|                                                                                                                           |             | 110304 L            | 0.08-0.20  | 0.6-2.0 | ●      |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |  |  |
|                                                                                                                           |             | 110304 R            | 0.08-0.20  | 0.6-2.0 | ●      |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |  |  |
| <br>OLD<br>Lav. Medie                  | TPMR        | 090204              | 0.10-0.25  | 0.5-2.0 |        |        |        |               |        |        | ●      |        |        |        |        |               |        |        |        |               |     |     |     |  |  |  |  |
|                                                                                                                           |             | 090208              | 0.13-0.30  | 0.7-2.0 |        |        |        |               |        |        |        | ●      |        |        |        |               |        |        |        |               |     |     |     |  |  |  |  |
|                                                                                                                           |             | 110304 ✓            | 0.10-0.25  | 0.7-3.0 | ●      |        |        |               |        |        | ●      | ●      |        |        |        | ●             |        | ●      |        |               |     |     |     |  |  |  |  |
|                                                                                                                           |             | 110308              | 0.13-0.30  | 1.0-3.0 | ●      |        |        |               |        |        | ●      | ●      |        |        |        | ●             |        |        |        |               |     |     |     |  |  |  |  |
|                                                                                                                           |             | 160304 ✓            | 0.10-0.25  | 1.0-5.0 | ●      |        | ●      | ○             |        | ●      | ●      |        |        |        |        | ●             |        | ●      | ●      |               |     |     |     |  |  |  |  |
|                                                                                                                           |             | 160308              | 0.13-0.30  | 1.0-5.0 | ●      | ●      |        |               |        | ●      | ●      |        |        |        |        | ●             |        | ●      | ●      |               |     |     |     |  |  |  |  |
|                                                                                                                           |             | 160312              | 0.15-0.35  | 1.0-5.0 |        |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |  |  |
|                                                                                                                           |             | 220404 ✓            | 0.10-0.25  | 1.0-7.0 |        |        |        |               |        |        | ●      |        |        |        |        | ●             |        |        |        |               |     |     |     |  |  |  |  |
|                                                                                                                           |             | 220408 ✓            | 0.13-0.30  | 1.5-7.0 |        |        | ●      |               |        |        | ●      |        |        |        |        | ●             |        |        |        |               |     |     |     |  |  |  |  |
|                                                                                                                           |             | 220412 ✓            | 0.15-0.35  | 1.5-7.0 |        |        |        |               |        |        |        |        |        |        |        |               |        |        |        |               |     |     |     |  |  |  |  |

● : Standard ○ : Semi Standard

✓ : Rompitrucciolo vecchio tipo

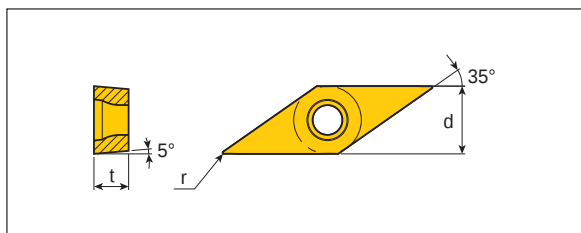


A39, A40, A122,  
A142, A143



# T-TURN VBET VBGT VBMT

## Inserti Rombici Positivi a 5°



| Misura | Dimensioni (mm) |      |          |
|--------|-----------------|------|----------|
|        | d               | t    | r        |
| 11     | 6.35            | 3.18 | 0.03-0.4 |
| 16     | 9.52            | 4.76 | 0.1-1.2  |
|        |                 |      |          |
|        |                 |      |          |
|        |                 |      |          |
|        |                 |      |          |
|        |                 |      |          |

| Inserto                                                                                                                                                                                               | Descrizione       | Avanz.<br>(mm/giro) | ap<br>(mm) | Cermet |        |        |        |        |        |        |        |        |        |        |        |        |        | Rivestito CVD |        |        | Rivestito PVD |     |     | Non rivestito |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|---------------|-----|-----|---------------|--|--|
|                                                                                                                                                                                                       |                   |                     |            | PV3010 | CT3000 | TT7005 | TT7015 | TT7310 | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235 | TT5100 | TT7100 | TT5080 | TT8020        | TT9020 | TT9080 | P20           | K10 | K20 |               |  |  |
| <br>In figura destro<br>Per finitura                                                                                 | VBET 110301 L-GF  | 0.02-0.15           | 0.2-1.5    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |               |     |     |               |  |  |
|                                                                                                                                                                                                       | 110301 R-GF       | 0.02-0.15           | 0.2-1.5    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |               |        | ●      |               |     |     |               |  |  |
|                                                                                                                                                                                                       | 110302 L-GF       | 0.03-0.17           | 0.3-1.5    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |               |     |     |               |  |  |
|                                                                                                                                                                                                       | 110302 R-GF       | 0.03-0.17           | 0.3-1.5    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |               |        | ●      |               |     |     |               |  |  |
|                                                                                                                                                                                                       | 110304 L-GF       | 0.05-0.20           | 0.3-1.5    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |               |     |     |               |  |  |
|                                                                                                                                                                                                       | 110304 R-GF       | 0.05-0.20           | 0.3-1.5    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |               |        | ●      |               |     |     |               |  |  |
| <br>In figura destro<br>Per finitura<br><small>Può essere usato solo su utensili con angolo di attacco a 95°</small> | VBET 1103003 L-GW | 0.02-0.15           | 0.1-1.5    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |               |     |     |               |  |  |
|                                                                                                                                                                                                       | 1103003 R-GW      | 0.02-0.15           | 0.1-1.5    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |               |     |     |               |  |  |
|                                                                                                                                                                                                       |                   |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |               |     |     |               |  |  |
|                                                                                                                                                                                                       |                   |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |               |     |     |               |  |  |
| <br>Per finitura                                                                                                   | VBGT 110301 SA    | 0.01-0.20           | 0.1-1.5    |        |        |        |        |        |        |        |        |        |        |        |        |        | ●      |               |        |        |               |     |     |               |  |  |
|                                                                                                                                                                                                       | 110302 SA         | 0.02-0.20           | 0.2-1.5    |        |        |        |        |        |        |        |        |        |        |        |        |        | ●      |               | ●      |        |               |     |     |               |  |  |
|                                                                                                                                                                                                       | 110304 SA         | 0.05-0.20           | 0.2-1.5    |        |        |        |        |        |        |        |        |        |        |        |        |        | ●      |               | ●      |        |               |     |     |               |  |  |
|                                                                                                                                                                                                       | 160401 SA         | 0.01-0.20           | 0.1-1.5    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |               |     |     |               |  |  |
|                                                                                                                                                                                                       | 160402 SA         | 0.02-0.20           | 0.2-1.5    |        |        |        |        |        |        |        |        |        |        |        |        |        | ●      |               | ●      |        |               |     |     |               |  |  |
| <br>Per finitura                                                                                                   | VBMT 160408 FA    | 0.05-0.25           | 0.3-2.0    | ●      | ●      |        |        | ●      | ●      |        |        |        |        |        |        |        | ●      |               |        |        |               |     |     |               |  |  |
|                                                                                                                                                                                                       |                   |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |               |     |     |               |  |  |
| <br>Per finitura                                                                                                   | VBMT 160404 FG    | 0.07-0.20           | 0.5-1.5    | ●      | ●      |        |        | ●      | ●      | ●      | ●      | ●      | ●      | ●      | ●      | ●      | ●      | ●             |        |        |               |     |     |               |  |  |
|                                                                                                                                                                                                       | 160408 FG         | 0.10-0.25           | 0.7-2.0    | ●      | ●      |        |        | ●      | ●      | ●      | ●      | ●      | ●      | ●      | ●      | ●      | ●      | ●             |        |        |               |     |     |               |  |  |
|                                                                                                                                                                                                       |                   |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |               |     |     |               |  |  |
| <br>Per finitura                                                                                                   | VBMT 160404 FX    | 0.05-0.20           | 0.2-2.0    | ●      |        |        |        | ●      | ●      |        |        |        |        |        |        |        |        |               |        |        |               |     |     |               |  |  |
|                                                                                                                                                                                                       | 160408 FX         | 0.07-0.20           | 0.2-2.0    | ●      |        |        |        | ●      | ●      |        |        |        |        |        |        |        |        |               |        |        |               |     |     |               |  |  |
|                                                                                                                                                                                                       |                   |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |               |     |     |               |  |  |
| <br>Lav. Medie                                                                                                     | VBMT 160404 MT    | 0.10-0.25           | 0.6-3.0    | ●      | ●      | ●      | ●      | ○      | ●      | ●      |        | ●      | ●      | ●      | ●      | ●      | ●      | ●             |        |        |               |     |     |               |  |  |
|                                                                                                                                                                                                       | 160408 MT         | 0.13-0.30           | 0.9-3.0    | ●      | ●      | ●      | ●      | ○      | ●      | ●      |        | ●      | ●      | ●      | ●      | ●      | ●      | ●             |        |        |               |     |     |               |  |  |
|                                                                                                                                                                                                       | 160412 MT         | 0.15-0.30           | 1.2-3.0    |        |        |        |        |        | ●      | ●      |        |        |        |        | ●      |        |        |               |        |        |               |     |     |               |  |  |
|                                                                                                                                                                                                       |                   |                     |            |        |        |        |        |        |        |        |        |        |        |        |        |        |        |               |        |        |               |     |     |               |  |  |

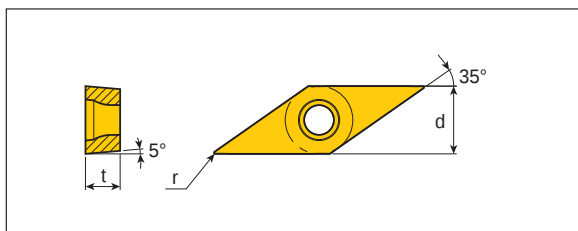
● : Standard ○ : Semi Standard



A36, A70, A72,  
A118, A147, A165

# T-TURN VBMT

## Inserti Rombici Positivi a 5°



| Misura | Dimensioni (mm) |      |         |
|--------|-----------------|------|---------|
|        | d               | t    | r       |
| 16     | 9.52            | 4.76 | 0.4-1.2 |
|        |                 |      |         |
|        |                 |      |         |
|        |                 |      |         |
|        |                 |      |         |
|        |                 |      |         |

| Inserto                                                                                                    | Descrizione    | Avanz.<br>(mm/giro) | ap<br>(mm) | Cermet           | Rivestito CVD |        |        |        |        |        |        |        |        |        | Rivestito PVD |        |        | Non rivestito |        |     |     |
|------------------------------------------------------------------------------------------------------------|----------------|---------------------|------------|------------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|---------------|--------|-----|-----|
|                                                                                                            |                |                     |            | PV3010<br>CT3000 | TT7005        | TT7015 | TT7310 | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235 | TT5100 | TT7100        | TT5080 | TT8020 | TT9020        | TT9080 | P20 | K10 |
| <br><br>Per Semi Finiture | VBMT 160404 PC | 0.07-0.22           | 0.5-2.8    | ●                |               |        |        |        | ●      | ●      |        |        | ●      |        |               |        |        | ●             |        |     |     |
|                                                                                                            | 160408 PC      | 0.10-0.27           | 0.5-2.8    | ●                |               |        |        |        | ●      | ●      |        |        | ●      |        |               |        |        | ●             |        |     |     |
|                                                                                                            | 160412 PC      | 0.10-0.28           | 0.5-2.8    |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
|                                                                                                            |                |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
|                                                                                                            |                |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |

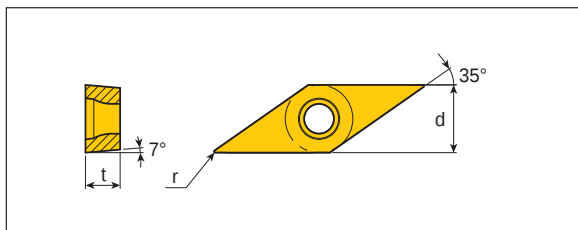


A36, A70, A72, A118,  
A146, A147, A165

● : Standard ○ : Semi Standard

# T-TURN VCGT VCMT

## Inserti Rombici Positivi a 7°



| Misura | Dimensioni (mm) |      |         |
|--------|-----------------|------|---------|
|        | d               | t    | r       |
| 08     | 4.76            | 2.38 | 0.2-0.4 |
| 11     | 6.35            | 3.18 | 0.1-0.4 |
| 16     | 9.52            | 4.76 | 0.4-0.8 |
|        |                 |      |         |
|        |                 |      |         |
|        |                 |      |         |

| Inserto                                                                                                                                                                                                                               | Descrizione | Avanz.<br>(mm/giro) | ap<br>(mm) | Cermet  |        | Rivestito CVD |        |        |        |        |        |        |        |        |        | Rivestito PVD |        |        | Non rivestito |        |     |     |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------|------------|---------|--------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|---------------|--------|-----|-----|-----|
|                                                                                                                                                                                                                                       |             |                     |            | PV3010  | CT3000 | TT7005        | TT7015 | TT7310 | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235 | TT5100 | TT7100        | TT5080 | TT8020 | TT9020        | TT9080 | P20 | K10 | K20 |
| <br><br>Per finitura                                                                                                                               | VCGT        | 110301 SA           | 0.01-0.20  | 0.1-1.5 |        |               |        |        |        |        |        |        |        |        |        |               | ●      |        |               |        |     |     |     |
|                                                                                                                                                                                                                                       |             | 110302 SA           | 0.02-0.20  | 0.2-1.5 |        |               |        |        |        |        |        |        |        |        |        |               |        | ●      | ●             |        |     |     |     |
|                                                                                                                                                                                                                                       |             | 110304 SA           | 0.05-0.20  | 0.2-1.5 |        |               |        |        |        |        |        |        |        |        |        |               |        | ●      | ●             |        |     |     |     |
|                                                                                                                                                                                                                                       |             |                     |            |         |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |     |
|                                                                                                                                                                                                                                       |             |                     |            |         |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |     |
| <br><br>VCMT 08, 11<br><br><br><br>VCMT 16<br>Per Semi Finiture | VCMT        | 080202 PC           | 0.02-0.15  | 0.2-1.5 |        | ●             |        |        |        |        | ●      |        |        |        |        |               |        |        |               |        |     |     |     |
|                                                                                                                                                                                                                                       |             | 080204 PC           | 0.05-0.20  | 0.2-1.5 | ●      | ●             |        |        |        | ●      | ●      |        | ●      |        |        |               |        |        |               |        |     |     |     |
|                                                                                                                                                                                                                                       |             | 110304 PC           | 0.05-0.20  | 0.1-1.7 |        | ●             |        |        |        | ●      | ●      |        | ●      |        |        |               |        |        |               |        | ●   |     |     |
|                                                                                                                                                                                                                                       |             | 160404 PC           | 0.05-0.20  | 0.3-2.0 |        | ●             |        |        |        | ●      | ●      |        | ●      | ●      |        |               |        |        |               |        | ●   |     |     |
|                                                                                                                                                                                                                                       |             | 160408 PC           | 0.07-0.20  | 0.3-2.0 |        | ●             |        |        |        | ●      | ●      |        | ●      |        |        |               |        |        |               |        | ●   |     |     |
|                                                                                                                                                                                                                                       |             |                     |            |         |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |     |
|                                                                                                                                                                                                                                       |             |                     |            |         |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |     |

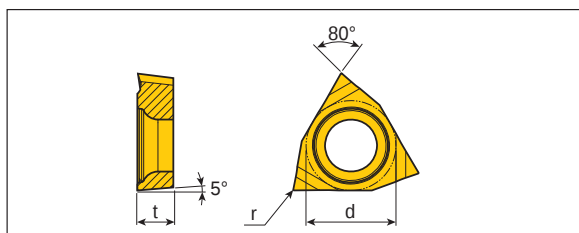


A37, A71, A73,  
A146, A147, A148

● : Standard ○ : Semi Standard

# T-TURN WBGW WBMT

## Inserti Trigoni Positivi a 5°



| Misura | Dimensioni (mm) |      |          |
|--------|-----------------|------|----------|
|        | d               | t    | r        |
| 06     | 9.52            | 1.59 | 0.03-0.4 |
|        |                 |      |          |
|        |                 |      |          |
|        |                 |      |          |
|        |                 |      |          |
|        |                 |      |          |

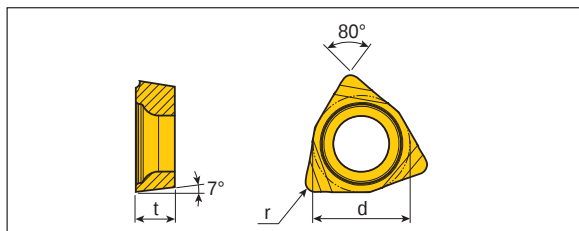
| Inserto                                                                                           | Descrizione       | Avanz.<br>(mm/giro) | ap<br>(mm) | Cermet |        | Rivestito CVD |        |        |        |        |        |        |        |        |        | Rivestito PVD |        |        | Non rivestito |        |     |     |     |
|---------------------------------------------------------------------------------------------------|-------------------|---------------------|------------|--------|--------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|---------------|--------|-----|-----|-----|
|                                                                                                   |                   |                     |            | PV3010 | CT3000 | TT7005        | TT7015 | TT7310 | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235 | TT5100 | TT7100        | TT5080 | TT8020 | TT9020        | TT9080 | P20 | K10 | K20 |
| <br>Per finitura | WBGW 0601003 R-FF | 0.03-0.10           | 0.05-0.3   |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |     |
|                                                                                                   | 0601003 L-FF      | 0.03-0.10           | 0.05-0.3   |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |     |
|                                                                                                   | 060101 R-FF       | 0.03-0.12           | 0.08-0.4   | ●      |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |     |
|                                                                                                   | 060101 L-FF       | 0.03-0.12           | 0.08-0.4   | ●      |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |     |
|                                                                                                   | 060102 R-FF       | 0.03-0.15           | 0.1-0.4    | ●      |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |     |
|                                                                                                   | 060102 L-FF       | 0.03-0.15           | 0.1-0.4    | ●      |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |     |
|                                                                                                   | 060104 R-FF       | 0.05-0.20           | 0.1-0.4    | ●      |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |     |
|                                                                                                   | 060104 L-FF       | 0.05-0.20           | 0.1-0.4    | ●      |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |     |
|                                                                                                   | WBMT 060102 R-C   | 0.03-0.15           | 0.1-0.4    | ●      |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |     |
|                                                                                                   | 060102 L-C        | 0.03-0.15           | 0.1-0.4    | ●      |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |     |
|                                                                                                   |                   |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |     |

● : Standard ○ : Semi Standard



# T-TURN WCGT

## Inserti Trigoni Positivi a 7°



| Misura | Dimensioni (mm) |      |         |
|--------|-----------------|------|---------|
|        | d               | t    | r       |
| 02     | 3.97            | 1.59 | 0.2-0.4 |
|        |                 |      |         |
|        |                 |      |         |
|        |                 |      |         |
|        |                 |      |         |
|        |                 |      |         |

| Inserto                                                                                             | Descrizione      | Avanz.<br>(mm/giro) | ap<br>(mm) | Cermet |        | Rivestito CVD |        |        |        |        |        |        |        |        |        | Rivestito PVD |        |        | Non rivestito |        |     |     |
|-----------------------------------------------------------------------------------------------------|------------------|---------------------|------------|--------|--------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|---------------|--------|-----|-----|
|                                                                                                     |                  |                     |            | PV3010 | CT3000 | TT7005        | TT7015 | TT7310 | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235 | TT5100 | TT7100        | TT5080 | TT8020 | TT9020        | TT9080 | P20 | K10 |
| <br>Per finitura | WCGT 020102 L-FF | 0.03-0.15           | 0.1-0.4    | ●      |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
|                                                                                                     | 020104 L-FF      | 0.05-0.20           | 0.1-0.4    | ●      |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
|                                                                                                     |                  |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
|                                                                                                     |                  |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
|                                                                                                     |                  |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
|                                                                                                     |                  |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
|                                                                                                     |                  |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |
|                                                                                                     |                  |                     |            |        |        |               |        |        |        |        |        |        |        |        |        |               |        |        |               |        |     |     |

● : Standard ○ : Semi Standard



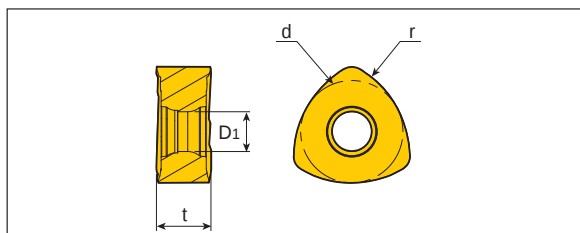


## Inserti Positivi a 7° per Lavorazioni Alluminio

[illegible]

●: Standard

### Inserti TOP FEED per alti avanzamenti



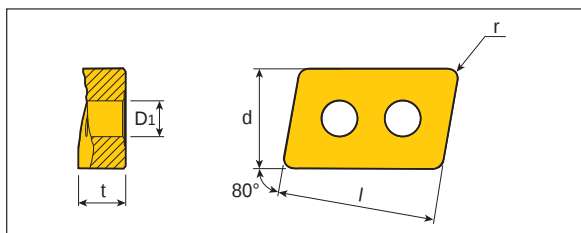
| Misura | Dimensioni (mm) |   |    |     |
|--------|-----------------|---|----|-----|
|        | d               | t | r  | D1  |
| 15     | 15              | 8 | 15 | 6.2 |
|        |                 |   |    |     |
|        |                 |   |    |     |
|        |                 |   |    |     |
|        |                 |   |    |     |
|        |                 |   |    |     |

[illegible]

A97

● : Standard

## Inserti TOP DUTY



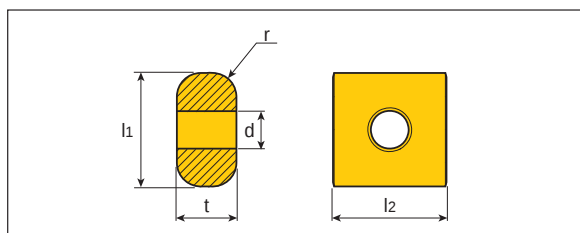
| Misura | Dimensioni (mm) |      |       |      |      |
|--------|-----------------|------|-------|------|------|
|        | l               | d    | t     | r    | D1   |
| 40     | 40.2            | 25.4 | 11.65 | 2.38 | 9.15 |
|        |                 |      |       |      |      |
|        |                 |      |       |      |      |
|        |                 |      |       |      |      |
|        |                 |      |       |      |      |

[illegible]

●: Standard



## Inserti TOP RAIL



| Misura | Dimensioni (mm) |      |    |   |
|--------|-----------------|------|----|---|
|        | l               | d    | t  | r |
| 19     | 19.05           | 6.35 | 10 | 4 |
| 30     | 30              | 6.35 | 12 | 4 |
|        |                 |      |    |   |
|        |                 |      |    |   |
|        |                 |      |    |   |
|        |                 |      |    |   |
|        |                 |      |    |   |

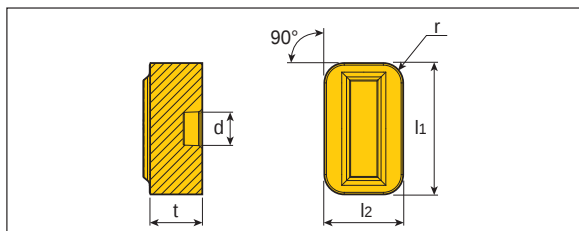
| Inserto                                                                                                                                                                              | Descrizione     | Avanz.<br>(mm/giro) | ap<br>(mm) | Cermet | Rivestito CVD |        |        |        |        |        |        |        |        |        | Rivestito PVD |        | Non rivestito |        |        |        |     |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------|------------|--------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|---------------|--------|--------|--------|-----|-----|
|                                                                                                                                                                                      |                 |                     |            | PV3010 | CT3000        | TT7005 | TT7015 | TT7310 | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235 | TT5100        | TT7100 | TT5080        | TT8020 | TT9020 | TT9080 | P20 | K10 |
| <br>Per finitura                                                                                    | LNMX 191940 TWF | 0.30-1.0            | 0.3-5.0    |        |               |        |        |        | ●      | ●      |        |        |        |        |               |        |               |        |        |        |     |     |
|                                                                                                                                                                                      |                 |                     |            |        |               |        |        |        |        |        |        |        |        |        |               |        |               |        |        |        |     |     |
|                                                                                                                                                                                      |                 |                     |            |        |               |        |        |        |        |        |        |        |        |        |               |        |               |        |        |        |     |     |
|                                                                                                                                                                                      |                 |                     |            |        |               |        |        |        |        |        |        |        |        |        |               |        |               |        |        |        |     |     |
| <br><br>Lav. Medie | LNMX 191940 TWM | 0.45-1.5            | 1.5-9.0    |        |               |        |        |        | ●      | ●      |        |        |        |        | ●             |        |               |        |        |        |     |     |
|                                                                                                                                                                                      | 301940 TWM      | 0.50-1.5            | 1.5-15.0   |        |               |        |        |        | ●      | ●      |        |        |        |        |               |        |               |        |        |        |     |     |
|                                                                                                                                                                                      |                 |                     |            |        |               |        |        |        |        |        |        |        |        |        |               |        |               |        |        |        |     |     |
|                                                                                                                                                                                      |                 |                     |            |        |               |        |        |        |        |        |        |        |        |        |               |        |               |        |        |        |     |     |
|                                                                                                                                                                                      |                 |                     |            |        |               |        |        |        |        |        |        |        |        |        |               |        |               |        |        |        |     |     |
|                                                                                                                                                                                      |                 |                     |            |        |               |        |        |        |        |        |        |        |        |        |               |        |               |        |        |        |     |     |
|                                                                                                                                                                                      |                 |                     |            |        |               |        |        |        |        |        |        |        |        |        |               |        |               |        |        |        |     |     |
|                                                                                                                                                                                      |                 |                     |            |        |               |        |        |        |        |        |        |        |        |        |               |        |               |        |        |        |     |     |
| <br>Per sgrossatura                                                                               | LNMX 301940 TWR | 0.70-1.8            | 2.0-15.0   |        |               |        |        |        | ●      | ●      |        |        |        |        |               |        |               |        |        |        |     |     |
|                                                                                                                                                                                      |                 |                     |            |        |               |        |        |        |        |        |        |        |        |        |               |        |               |        |        |        |     |     |
|                                                                                                                                                                                      |                 |                     |            |        |               |        |        |        |        |        |        |        |        |        |               |        |               |        |        |        |     |     |
|                                                                                                                                                                                      |                 |                     |            |        |               |        |        |        |        |        |        |        |        |        |               |        |               |        |        |        |     |     |
|                                                                                                                                                                                      |                 |                     |            |        |               |        |        |        |        |        |        |        |        |        |               |        |               |        |        |        |     |     |
|                                                                                                                                                                                      |                 |                     |            |        |               |        |        |        |        |        |        |        |        |        |               |        |               |        |        |        |     |     |
|                                                                                                                                                                                      |                 |                     |            |        |               |        |        |        |        |        |        |        |        |        |               |        |               |        |        |        |     |     |
|                                                                                                                                                                                      |                 |                     |            |        |               |        |        |        |        |        |        |        |        |        |               |        |               |        |        |        |     |     |
|                                                                                                                                                                                      |                 |                     |            |        |               |        |        |        |        |        |        |        |        |        |               |        |               |        |        |        |     |     |
|                                                                                                                                                                                      |                 |                     |            |        |               |        |        |        |        |        |        |        |        |        |               |        |               |        |        |        |     |     |
|                                                                                                                                                                                      |                 |                     |            |        |               |        |        |        |        |        |        |        |        |        |               |        |               |        |        |        |     |     |
|                                                                                                                                                                                      |                 |                     |            |        |               |        |        |        |        |        |        |        |        |        |               |        |               |        |        |        |     |     |
|                                                                                                                                                                                      |                 |                     |            |        |               |        |        |        |        |        |        |        |        |        |               |        |               |        |        |        |     |     |
|                                                                                                                                                                                      |                 |                     |            |        |               |        |        |        |        |        |        |        |        |        |               |        |               |        |        |        |     |     |
|                                                                                                                                                                                      |                 |                     |            |        |               |        |        |        |        |        |        |        |        |        |               |        |               |        |        |        |     |     |
|                                                                                                                                                                                      |                 |                     |            |        |               |        |        |        |        |        |        |        |        |        |               |        |               |        |        |        |     |     |
|                                                                                                                                                                                      |                 |                     |            |        |               |        |        |        |        |        |        |        |        |        |               |        |               |        |        |        |     |     |

●: Standard



A100

## Inserti TOP RAIL



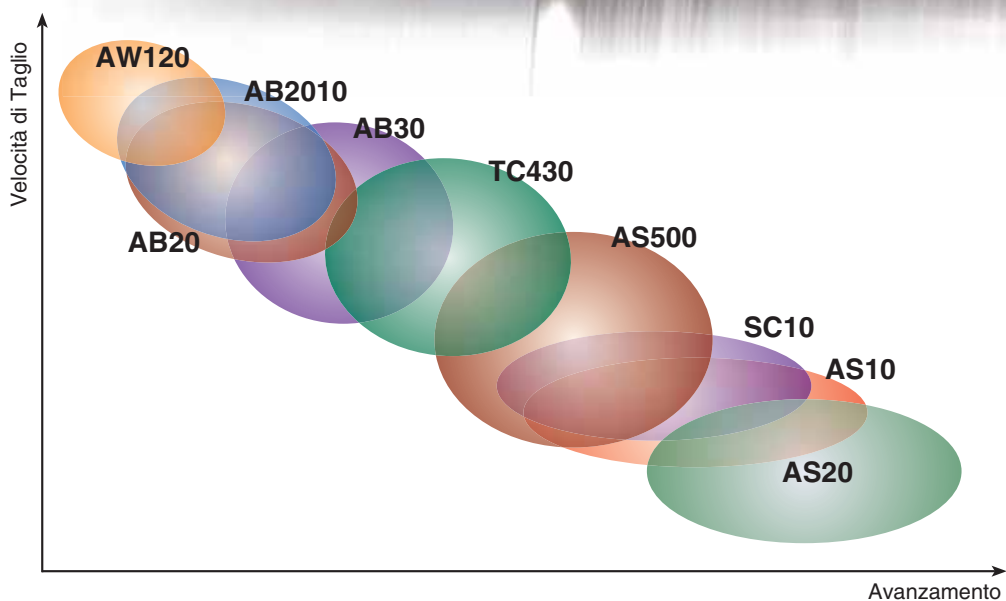
| Misura | Dimensioni (mm) |       |     |      |     |
|--------|-----------------|-------|-----|------|-----|
|        | l1              | l2    | d   | t    | r   |
| SRR-TX | 31.75           | 19.05 | 8.1 | 12.7 | 4.8 |
|        |                 |       |     |      |     |
|        |                 |       |     |      |     |
|        |                 |       |     |      |     |
|        |                 |       |     |      |     |
|        |                 |       |     |      |     |

| Inserto                                                                           | Descrizione | Avanz.<br>(mm/giro) | ap<br>(mm) | Cermet           | Rivestito CVD |        |        |        |        |        |        |        |        |        | Rivestito PVD |        |        |        | Non rivestito |     |     |
|-----------------------------------------------------------------------------------|-------------|---------------------|------------|------------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------|--------|--------|---------------|-----|-----|
|                                                                                   |             |                     |            | PV3010<br>CT3000 | TT7005        | TT7015 | TT7310 | TT8115 | TT8125 | TT8135 | TT9215 | TT9225 | TT9235 | TT5100 | TT7100        | TT5080 | TT8020 | TT9020 | TT9080        | P20 | K10 |
|  | SRR -TX     | 0.60-1.8            | 1.5-20.0   |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        |        |        |               |        |        |        |               |     |     |
|                                                                                   |             |                     |            |                  |               |        |        |        |        |        |        |        | </     |        |               |        |        |        |               |     |     |

## Proprietà Fisiche

| Grado                        | AW120                                              | AB2010                                      | AB20                                        | AB30                                    | TC430          | AS500  |
|------------------------------|----------------------------------------------------|---------------------------------------------|---------------------------------------------|-----------------------------------------|----------------|--------|
| Composizione                 | Al <sub>2</sub> O <sub>3</sub><br>ZrO <sub>2</sub> | Al <sub>2</sub> O <sub>3</sub> -<br>Ti(C,N) | Al <sub>2</sub> O <sub>3</sub> -<br>Ti(C,N) | Al <sub>2</sub> O <sub>3</sub> -<br>TiC | SiC<br>Whisker | SiAlON |
| Densità (g/cm <sup>3</sup> ) | 4.05                                               | 4.30                                        | 4.30                                        | 4.25                                    | 3.74           | 3.21   |
| Durezza                      | HRA                                                | 94.0                                        | 94.5                                        | 94.5                                    | 94.5           | 94.3   |
|                              | Vickers                                            | 1,800                                       | 2,050                                       | 2,050                                   | 2,050          | 1,800  |
| Resistenza a Flessione (MPa) | 600                                                | 650                                         | 650                                         | 700                                     | 700            | 850    |

## Mappa applicazioni gradi Ceramici



## Condizioni di taglio raccomandate

| Materiali                             | Grado  | AW120                                                   | AB2010             | AB20               | AB30               | TC430              | AS500               | SC10                | AS10               | AS20               |
|---------------------------------------|--------|---------------------------------------------------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------|--------------------|--------------------|
|                                       | V.f    | Velocità di taglio: V (m/min), Avanzamento: f (mm/giro) |                    |                    |                    |                    |                     |                     |                    |                    |
| <b>Ghisa grigia (HB 180-230)</b>      | V<br>f | 400-1000<br>0.1-0.5                                     | -                  | -                  | 300-800<br>0.1-0.5 | -                  | 400-1000<br>0.2-0.6 | 400-1000<br>0.2-0.6 | 400-800<br>0.2-0.8 | -                  |
| <b>Ghisa duttile (HB 200-240)</b>     | V<br>f | 300-600<br>0.1-0.2                                      | -                  | -                  | 250-500<br>0.1-0.3 | -                  | 200-600<br>0.1-0.5  | 200-600<br>0.1-0.5  | 200-500<br>0.2-0.6 | -                  |
| <b>Ghisa in conchiglia</b>            | V<br>f | -                                                       | 50-200<br>0.05-0.2 | 50-200<br>0.05-0.2 | 50-150<br>0.05-0.2 | -                  | -                   | -                   | -                  | -                  |
| <b>Acciaio temprato (HRc 40-50)</b>   | V<br>f | -                                                       | 100-400<br>0.1-0.2 | 100-400<br>0.1-0.2 | 100-300<br>0.1-0.2 | -                  | -                   | -                   | -                  | -                  |
| <b>Acciaio temprato (&gt; HRc 50)</b> | V<br>f | -                                                       | 50-250<br>0.05-0.2 | 50-250<br>0.05-0.2 | -                  | -                  | -                   | -                   | -                  | -                  |
| <b>Rullo ADI o HSS</b>                | V<br>f | -                                                       | -                  | 50-100<br>0.2-0.5  | 50-80<br>0.2-0.5   | 50-100<br>0.2-0.7  | 20-60<br>0.2-0.7    | -                   | -                  | -                  |
| <b>Super Leghe (Base-Ni)</b>          | V<br>f | -                                                       | -                  | -                  | -                  | 150-400<br>0.1-0.3 | -                   | -                   | -                  | 100-300<br>0.1-0.3 |

## Preparazione Tagliente Inserti Ceramici

### 1. Tagliente Standard (no descrizione)

| Grado                                                     | Specifiche Fase |              |
|-----------------------------------------------------------|-----------------|--------------|
|                                                           | Larghezza (mm)  | Angolo ( ° ) |
| <b>AB2010, AB20, AB30, TC430, AS500, SC10, AS10, AS20</b> | 0.2             | 25           |
| <b>AW120</b>                                              | 0.2             | 20           |

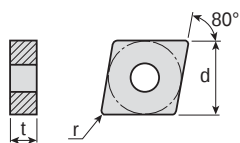
### 2. Altre preparazioni del tagliente (Fase Singola T)

| Descrizione | Specifiche Fase |              |
|-------------|-----------------|--------------|
|             | Larghezza (mm)  | Angolo ( ° ) |
| <b>T2</b>   | 0.10            | 30           |
| <b>T3</b>   | 0.15            | 30           |
| <b>T4</b>   | 0.20            | 30           |
| <b>T5</b>   | 0.30            | 30           |
| <b>T6</b>   | 0.10            | 20           |
| <b>T7</b>   | 0.20            | 20           |

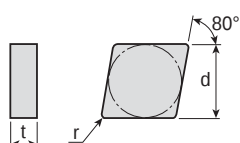
### 3. Preparazione tagliente "E" ha solo Honing (arrotondamento) senza fase

### 4. Diverse preparazioni del tagliente come "Fase Doppia" o "S" possono essere fatte su richiesta.

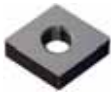
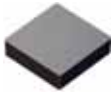
## Inserti Rombici Negativi a 80°



CNGA



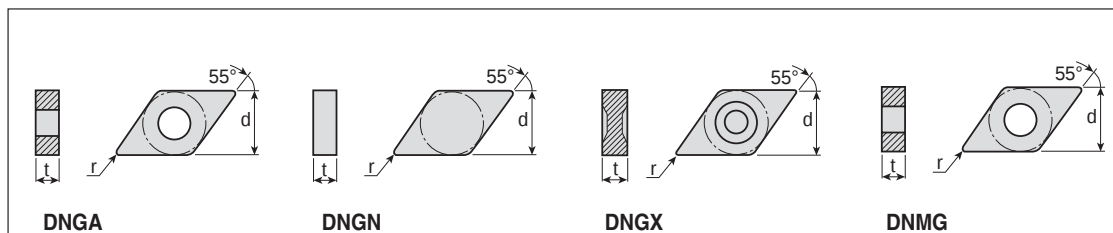
CNGN

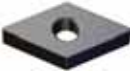
| Inserto                                                                             | Descrizione | Grado  |      |      |       |       |      |      |       |      |  |  |
|-------------------------------------------------------------------------------------|-------------|--------|------|------|-------|-------|------|------|-------|------|--|--|
|                                                                                     |             | AB2010 | AB20 | AB30 | AW120 | AS500 | SC10 | AS10 | TC430 | AS20 |  |  |
|    | CNGA 120404 | ●      | ●    | ●    |       |       |      |      |       |      |  |  |
|                                                                                     | 120408      | ●      | ●    | ●    | ●     | ●     | ●    |      |       |      |  |  |
|                                                                                     | 120408 E    |        |      |      |       |       |      |      |       | ●    |  |  |
|                                                                                     | 120408 T7   |        |      |      |       | ●     |      |      |       |      |  |  |
|                                                                                     | 120412      | ●      | ●    | ●    |       |       | ●    | ●    |       |      |  |  |
|                                                                                     | 120412 E    |        |      |      |       |       |      |      |       | ●    |  |  |
|                                                                                     | 120412 T7   |        |      |      |       | ●     |      |      |       |      |  |  |
|                                                                                     | 120416      |        | ●    | ●    |       |       | ●    | ●    |       |      |  |  |
|                                                                                     | 160408      |        |      | ●    |       |       |      |      |       |      |  |  |
|                                                                                     | 160608      |        | ●    |      |       |       |      |      |       |      |  |  |
|                                                                                     | 160612      |        | ●    | ●    |       |       |      | ●    |       |      |  |  |
|                                                                                     | 160616      |        | ●    | ●    |       |       |      |      |       |      |  |  |
|                                                                                     | 160624      |        |      | ●    |       |       |      |      |       |      |  |  |
|                                                                                     | 190608      |        | ●    | ●    |       |       |      |      |       |      |  |  |
|                                                                                     | 190612      |        | ●    | ●    |       |       |      |      |       |      |  |  |
|                                                                                     | 190616      |        |      | ●    |       |       |      |      |       |      |  |  |
|                                                                                     | 190624      |        |      | ●    |       |       |      | ●    |       |      |  |  |
|                                                                                     | 190716 U3   |        |      |      |       |       |      | ●    |       |      |  |  |
|  | CNGN 120404 |        |      | ●    |       |       |      |      |       |      |  |  |
|                                                                                     | 120404 T6   |        |      |      |       |       |      |      | ●     |      |  |  |
|                                                                                     | 120408      | ●      | ●    | ●    |       |       |      | ●    |       |      |  |  |
|                                                                                     | 120408 E    |        |      |      |       |       |      |      |       | ●    |  |  |
|                                                                                     | 120408 T6   |        |      |      |       |       |      |      | ●     |      |  |  |
|                                                                                     | 120412      |        | ●    |      |       |       | ●    | ●    |       |      |  |  |
|                                                                                     | 120412 E    |        |      |      |       |       |      |      |       | ●    |  |  |
|                                                                                     | 120412 T6   |        |      |      |       |       |      |      | ●     |      |  |  |
|                                                                                     | 120416      |        | ●    |      |       |       |      | ●    |       |      |  |  |
|                                                                                     | 120416 T6   |        |      |      |       |       |      |      | ●     | ●    |  |  |
|                                                                                     | 120708      | ●      | ●    | ●    |       |       |      |      |       |      |  |  |
|                                                                                     | 120708 E    |        |      |      |       |       |      |      |       | ●    |  |  |
|                                                                                     | 120708 T6   |        |      |      |       |       |      |      | ●     |      |  |  |
|                                                                                     | 120712      |        |      | ●    |       |       |      | ●    |       |      |  |  |
|                                                                                     | 120712 E    |        |      |      |       |       |      |      |       | ●    |  |  |
|                                                                                     | 120712 T6   |        |      |      |       |       |      |      | ●     |      |  |  |
|                                                                                     | 120716      |        |      | ●    |       |       | ●    | ●    |       |      |  |  |
|                                                                                     | 120716 E    |        |      |      |       |       |      |      |       | ●    |  |  |

●: Standard



## Inserti Rombici Negativi a 55°

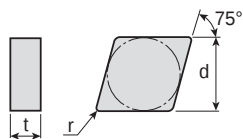


| Inserto                                                                             | Descrizione       | Grado  |      |      |       |       |      |      |       |      |  |  |  |  |  |  |  |
|-------------------------------------------------------------------------------------|-------------------|--------|------|------|-------|-------|------|------|-------|------|--|--|--|--|--|--|--|
|                                                                                     |                   | AB2010 | AB20 | AB30 | AW120 | AS500 | SC10 | AS10 | TC430 | AS20 |  |  |  |  |  |  |  |
|    | DNGA 150404       |        | ●    | ●    |       |       |      |      |       |      |  |  |  |  |  |  |  |
|                                                                                     | 150404 T6         |        | ●    |      |       |       |      |      |       |      |  |  |  |  |  |  |  |
|                                                                                     | 150408            | ●      | ●    | ●    |       |       |      |      |       |      |  |  |  |  |  |  |  |
|                                                                                     | 150408 T6         |        |      | ●    |       |       |      |      |       |      |  |  |  |  |  |  |  |
|                                                                                     | 150412            | ●      | ●    | ●    |       |       |      |      |       |      |  |  |  |  |  |  |  |
|                                                                                     | 150416            |        | ●    |      |       |       |      |      |       |      |  |  |  |  |  |  |  |
|                                                                                     | 150416 T7         |        | ●    |      |       |       |      |      |       |      |  |  |  |  |  |  |  |
|                                                                                     | 150604            | ●      | ●    | ●    |       |       |      |      |       |      |  |  |  |  |  |  |  |
|                                                                                     | 150606            |        |      | ●    |       |       |      |      |       |      |  |  |  |  |  |  |  |
|                                                                                     | 150608            | ●      | ●    | ●    |       | ●     |      | ●    |       |      |  |  |  |  |  |  |  |
|                                                                                     | 150612            | ●      | ●    | ●    |       |       |      | ●    |       |      |  |  |  |  |  |  |  |
|                                                                                     | 150616            |        | ●    | ●    |       |       |      |      |       |      |  |  |  |  |  |  |  |
|  | DNGN 150408       |        | ●    | ●    |       |       |      |      |       |      |  |  |  |  |  |  |  |
|                                                                                     | 150704            |        |      | ●    |       |       |      |      |       |      |  |  |  |  |  |  |  |
|                                                                                     | 150708            |        |      | ●    | ●     |       |      |      |       |      |  |  |  |  |  |  |  |
|                                                                                     | 150712            |        |      |      | ●     |       |      |      |       |      |  |  |  |  |  |  |  |
|                                                                                     | 150712 U2         |        |      | ●    |       |       |      |      |       |      |  |  |  |  |  |  |  |
|                                                                                     | 150716            |        | ●    |      |       |       |      |      |       |      |  |  |  |  |  |  |  |
|                                                                                     | 150716 U2         |        |      | ●    |       |       |      |      |       |      |  |  |  |  |  |  |  |
|                                                                                     |                   |        |      |      |       |       |      |      |       |      |  |  |  |  |  |  |  |
|  | DNGX 120708 T7-CH |        |      |      |       |       |      | ●    |       |      |  |  |  |  |  |  |  |
|                                                                                     | 120712 T7-CH      |        |      |      |       |       |      | ●    |       |      |  |  |  |  |  |  |  |
|                                                                                     | 150708 T7-CH      |        |      |      |       |       |      | ●    |       |      |  |  |  |  |  |  |  |
|                                                                                     | 150712 CH         |        |      |      |       |       | ●    | ●    |       |      |  |  |  |  |  |  |  |
|                                                                                     | 150712 T7-CH      |        |      |      |       | ●     |      | ●    |       |      |  |  |  |  |  |  |  |
|                                                                                     | 150716 CH         |        |      |      |       |       | ●    | ●    |       |      |  |  |  |  |  |  |  |
|                                                                                     | 150716 T7-CH      |        |      |      |       |       |      | ●    |       |      |  |  |  |  |  |  |  |
|                                                                                     |                   |        |      |      |       |       |      |      |       |      |  |  |  |  |  |  |  |
|  | DNMG 150608 CE    |        |      | ●    |       |       |      |      |       |      |  |  |  |  |  |  |  |
|                                                                                     |                   |        |      |      |       |       |      |      |       |      |  |  |  |  |  |  |  |
|                                                                                     |                   |        |      |      |       |       |      |      |       |      |  |  |  |  |  |  |  |
|                                                                                     |                   |        |      |      |       |       |      |      |       |      |  |  |  |  |  |  |  |
|                                                                                     |                   |        |      |      |       |       |      |      |       |      |  |  |  |  |  |  |  |
|                                                                                     |                   |        |      |      |       |       |      |      |       |      |  |  |  |  |  |  |  |
|                                                                                     |                   |        |      |      |       |       |      |      |       |      |  |  |  |  |  |  |  |
|                                                                                     |                   |        |      |      |       |       |      |      |       |      |  |  |  |  |  |  |  |

● : Standard

# T-TURN ENGN

## Inserti Rombici Negativi a 75°



ENGN

| Inserto | Descrizione | Grado  |      |      |       |       |      |      |       |      |  |
|---------|-------------|--------|------|------|-------|-------|------|------|-------|------|--|
|         |             | AB2010 | AB20 | AB30 | AW120 | AS500 | SC10 | AS10 | TC430 | AS20 |  |
|         | ENGN 130708 | ●      | ●    | ●    |       |       |      |      |       |      |  |
|         | 130712      |        | ●    |      |       |       |      |      |       |      |  |
|         | 130716      |        | ●    | ●    |       |       |      |      |       |      |  |
|         | 130716 U2   |        |      | ●    |       |       |      |      |       |      |  |
|         |             |        |      |      |       |       |      |      |       |      |  |

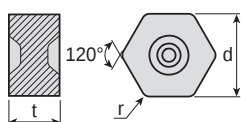


A86

● : Standard

# T-TURN HNGX

## Inserti Negativi Esagonali a 120°

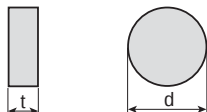


HNGX

| Inserto | Descrizione    | Grado  |      |      |       |       |      |      |       |      |  |
|---------|----------------|--------|------|------|-------|-------|------|------|-------|------|--|
|         |                | AB2010 | AB20 | AB30 | AW120 | AS500 | SC10 | AS10 | TC430 | AS20 |  |
|         | HNGX 050712 CH |        |      |      |       |       |      | ●    |       |      |  |
|         | 050712 T7-CH   |        |      |      |       | ●     |      |      |       |      |  |
|         | 050716 CH      |        |      |      |       |       |      | ●    |       |      |  |
|         | 050716 T7-CH   |        |      |      |       | ●     |      |      |       |      |  |

● : Standard

## Inserti Tondi Negativi

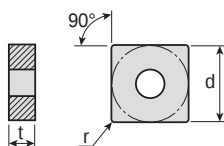


RNGN

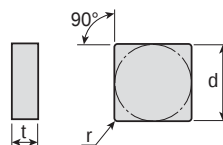
| Inserto | Descrizione | Grado  |      |      |       |       |      |      |       |      |  |  |
|---------|-------------|--------|------|------|-------|-------|------|------|-------|------|--|--|
|         |             | AB2010 | AB20 | AB30 | AW120 | AS500 | SC10 | AS10 | TC430 | AS20 |  |  |
|         | RNGN 090300 |        | ●    | ●    |       |       |      |      |       |      |  |  |
|         | 090300 T6   |        | ●    |      |       |       |      |      | ●     |      |  |  |
|         | 090400 T6   |        |      |      |       |       |      |      | ●     |      |  |  |
|         | 120400      | ●      | ●    | ●    |       |       |      |      |       |      |  |  |
|         | 120400 E    |        |      |      |       |       |      |      |       | ●    |  |  |
|         | 120400 T6   |        |      |      |       |       |      |      | ●     | ●    |  |  |
|         | 120700      | ●      | ●    | ●    |       |       |      |      |       |      |  |  |
|         | 120700 E    |        |      |      |       |       |      |      |       | ●    |  |  |
|         | 120700 T6   |        |      |      |       |       |      |      | ●     | ●    |  |  |
|         | 150600 T6   |        |      |      |       |       |      |      | ●     |      |  |  |
|         | 150700      |        | ●    | ●    |       |       |      |      |       |      |  |  |
|         | 150700 T6   |        |      |      |       |       |      |      | ●     |      |  |  |
|         | 190700      |        | ●    | ●    |       |       |      |      |       |      |  |  |
|         | 190700 E    |        |      |      |       |       |      |      |       | ●    |  |  |
|         | 190700 T6   |        |      |      |       |       |      |      | ●     | ●    |  |  |
|         | 190700 U2   |        |      | ●    |       |       |      |      |       |      |  |  |

●: Standard

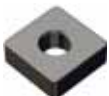
## Inserti Quadri Negativi



SNGA



SNGN

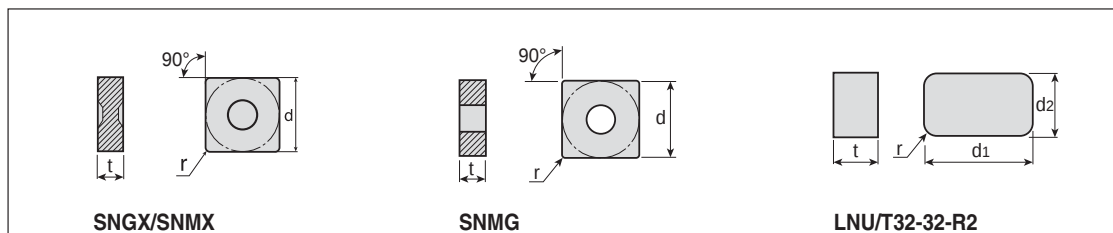
| Inserto                                                                            | Descrizione | Grado  |      |      |       |       |      |      |       |      |  |  |  |  |  |  |  |  |  |
|------------------------------------------------------------------------------------|-------------|--------|------|------|-------|-------|------|------|-------|------|--|--|--|--|--|--|--|--|--|
|                                                                                    |             | AB2010 | AB20 | AB30 | AW120 | AS500 | SC10 | AS10 | TC430 | AS20 |  |  |  |  |  |  |  |  |  |
|   | SNGA 120404 | ●      | ●    | ●    |       |       |      |      |       |      |  |  |  |  |  |  |  |  |  |
|                                                                                    | 120408      | ●      | ●    | ●    |       |       |      | ●    |       |      |  |  |  |  |  |  |  |  |  |
|                                                                                    | 120408 E    |        |      |      |       |       |      |      |       | ●    |  |  |  |  |  |  |  |  |  |
|                                                                                    | 120412      | ●      | ●    | ●    |       |       | ●    | ●    |       |      |  |  |  |  |  |  |  |  |  |
|                                                                                    | 120412 T6   |        |      |      |       |       |      |      |       | ●    |  |  |  |  |  |  |  |  |  |
|                                                                                    | 120412 T7   |        |      |      |       |       |      | ●    |       |      |  |  |  |  |  |  |  |  |  |
|                                                                                    | 120416      |        | ●    |      |       |       | ●    | ●    |       |      |  |  |  |  |  |  |  |  |  |
|                                                                                    | 150616      |        |      |      |       |       | ●    |      |       |      |  |  |  |  |  |  |  |  |  |
|                                                                                    | 190608      |        |      | ●    |       |       |      |      |       |      |  |  |  |  |  |  |  |  |  |
|                                                                                    | 190612      |        |      | ●    |       |       |      |      |       |      |  |  |  |  |  |  |  |  |  |
|                                                                                    | 190616      |        |      | ●    |       |       |      |      |       |      |  |  |  |  |  |  |  |  |  |
|  | SNGN 090412 |        |      | ●    |       |       |      |      |       |      |  |  |  |  |  |  |  |  |  |
|                                                                                    | 120404      | ●      | ●    | ●    |       |       |      |      |       |      |  |  |  |  |  |  |  |  |  |
|                                                                                    | 120408      | ●      | ●    | ●    |       |       |      | ●    |       |      |  |  |  |  |  |  |  |  |  |
|                                                                                    | 120408 E    |        |      |      |       |       |      |      |       | ●    |  |  |  |  |  |  |  |  |  |
|                                                                                    | 120408 T6   |        |      |      |       |       |      |      | ●     |      |  |  |  |  |  |  |  |  |  |
|                                                                                    | 120412      | ●      | ●    | ●    | ●     | ●     | ●    |      |       |      |  |  |  |  |  |  |  |  |  |
|                                                                                    | 120412 T6   |        |      |      |       |       |      |      | ●     |      |  |  |  |  |  |  |  |  |  |
|                                                                                    | 120412 T7   |        |      |      |       | ●     |      | ●    |       |      |  |  |  |  |  |  |  |  |  |
|                                                                                    | 120416      | ●      | ●    | ●    |       | ●     | ●    |      |       |      |  |  |  |  |  |  |  |  |  |
|                                                                                    | 120416 T6   |        |      |      |       |       |      |      |       | ●    |  |  |  |  |  |  |  |  |  |
|                                                                                    | 120704      |        | ●    | ●    |       |       |      |      |       |      |  |  |  |  |  |  |  |  |  |
|                                                                                    | 120708      | ●      | ●    | ●    | ●     |       | ●    | ●    |       |      |  |  |  |  |  |  |  |  |  |
|                                                                                    | 120708 T6   |        |      |      |       |       |      |      | ●     |      |  |  |  |  |  |  |  |  |  |
|                                                                                    | 120712      | ●      | ●    | ●    | ●     |       | ●    | ●    |       |      |  |  |  |  |  |  |  |  |  |
|                                                                                    | 120712 T6   |        |      | ●    |       |       |      |      | ●     |      |  |  |  |  |  |  |  |  |  |
|                                                                                    | 120712 U2   |        |      | ●    |       |       |      |      |       |      |  |  |  |  |  |  |  |  |  |
|                                                                                    | 120716      | ●      |      | ●    | ●     |       | ●    | ●    |       |      |  |  |  |  |  |  |  |  |  |
|                                                                                    | 120720 U2   |        |      | ●    |       |       |      |      |       |      |  |  |  |  |  |  |  |  |  |
|                                                                                    | 120725      |        |      |      |       |       | ●    |      |       |      |  |  |  |  |  |  |  |  |  |
|                                                                                    | 150612      |        | ●    |      |       |       |      |      |       |      |  |  |  |  |  |  |  |  |  |
|                                                                                    | 150712 T6   |        |      |      |       |       |      |      | ●     |      |  |  |  |  |  |  |  |  |  |
|                                                                                    | 150716      |        |      | ●    |       |       |      | ●    |       |      |  |  |  |  |  |  |  |  |  |
|                                                                                    | 190716      |        |      | ●    |       |       |      |      |       |      |  |  |  |  |  |  |  |  |  |
|                                                                                    | 190716 U3   |        |      | ●    |       |       |      |      |       |      |  |  |  |  |  |  |  |  |  |
|                                                                                    | 250924      |        |      | ●    |       |       |      |      |       |      |  |  |  |  |  |  |  |  |  |
|                                                                                    | 250924 U3   |        |      | ●    |       |       |      |      |       |      |  |  |  |  |  |  |  |  |  |



A88, A89

●: Standard

## Inserti Quadri Negativi



| Inserto                                                                             | Descrizione           | Grado  |      |      |       |       |      |      |       |      |  |  |
|-------------------------------------------------------------------------------------|-----------------------|--------|------|------|-------|-------|------|------|-------|------|--|--|
|                                                                                     |                       | AB2010 | AB20 | AB30 | AW120 | AS500 | SC10 | AS10 | TC430 | AS20 |  |  |
|    | <b>SNGX</b> 120712 CH |        |      |      |       |       | ●    | ●    |       |      |  |  |
|                                                                                     | 120712 T7-CH          |        |      |      |       | ●     |      | ●    |       |      |  |  |
|                                                                                     | 120712 T7-CHX *       |        |      |      |       | ●     |      |      |       |      |  |  |
|                                                                                     | 120716 CH             |        |      |      |       |       | ●    | ●    |       |      |  |  |
|                                                                                     | 120716 T7-CH          |        |      |      |       | ●     |      | ●    |       |      |  |  |
|                                                                                     | 120716 T7-CHX *       |        |      |      |       | ●     |      | ●    |       |      |  |  |
|                                                                                     | 150716 T7-CH          |        |      |      |       |       |      | ●    |       |      |  |  |
|   | <b>SNMX</b> 120716 CH |        |      |      |       |       | ●    | ●    |       |      |  |  |
|                                                                                     |                       |        |      |      |       |       |      |      |       |      |  |  |
|  | <b>SNMG</b> 120408 CE |        |      | ●    |       |       |      |      |       |      |  |  |
|                                                                                     |                       |        |      |      |       |       |      |      |       |      |  |  |
|  | <b>LNU</b> 6688 T     |        | ●    | ●    |       |       |      |      | ●     |      |  |  |
|                                                                                     |                       |        |      |      |       |       |      |      |       |      |  |  |
|  | <b>T32-</b> 32-R2     |        | ●    |      |       |       |      | ●    |       |      |  |  |
|                                                                                     |                       |        |      |      |       |       |      |      |       |      |  |  |

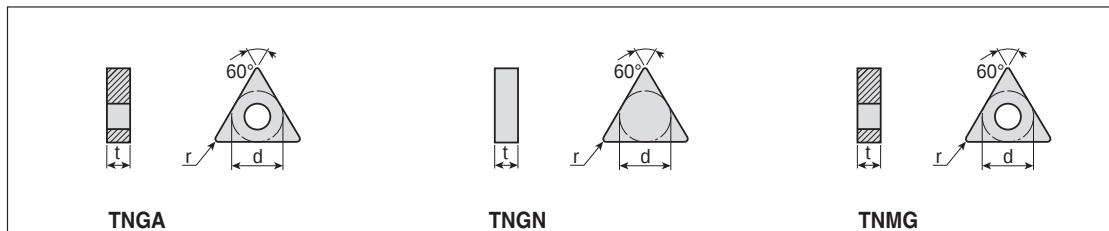
● : Standard

\* : bloccaggio con DCL S-4D applicabile solo agli inserti indicati



A88, A89,  
A95, A96

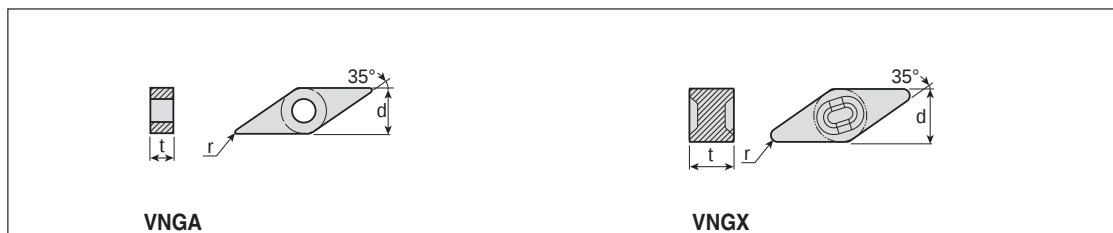
## Inserti Triangolari Negativi



| Inserto | Descrizione    | Grado  |      |      |       |       |      |      |       |      |  |
|---------|----------------|--------|------|------|-------|-------|------|------|-------|------|--|
|         |                | AB2010 | AB20 | AB30 | AW120 | AS500 | SC10 | AS10 | TC430 | AS20 |  |
|         | TNGA 160304    |        |      | ●    |       |       |      |      |       |      |  |
|         | 160308         |        |      | ●    |       |       |      |      |       |      |  |
|         | 160404         | ●      | ●    | ●    |       |       |      |      |       |      |  |
|         | 160408         | ●      | ●    | ●    |       |       | ●    | ●    |       |      |  |
|         | 160408 E       |        |      |      |       |       |      |      |       | ●    |  |
|         | 160412         | ●      | ●    |      |       |       | ●    | ●    |       |      |  |
|         | 160416         |        | ●    |      |       |       |      |      |       |      |  |
|         | 220404         |        | ●    | ●    |       |       |      |      |       |      |  |
|         | 220408         | ●      |      | ●    |       |       |      |      |       |      |  |
|         | 220412         |        | ●    | ●    |       |       |      |      |       |      |  |
|         | 220416         |        | ●    | ●    |       |       |      |      |       |      |  |
|         | TNGN 110308    |        |      | ●    |       |       |      |      |       |      |  |
|         | 110312         |        |      |      |       |       |      | ●    |       |      |  |
|         | 160404         |        | ●    | ●    |       |       |      |      |       |      |  |
|         | 160408         | ●      | ●    | ●    |       |       | ●    | ●    |       |      |  |
|         | 160408 E       |        |      |      |       |       |      |      |       | ●    |  |
|         | 160408 T6      |        |      |      |       |       |      |      | ●     |      |  |
|         | 160412         |        | ●    | ●    | ●     | ●     | ●    | ●    |       |      |  |
|         | 160412 T7      |        |      |      | ●     |       |      |      |       |      |  |
|         | 160416         |        |      | ●    |       |       |      |      |       |      |  |
|         | 160704         |        |      | ●    |       |       |      |      |       |      |  |
|         | 160708         |        |      | ●    |       |       |      |      |       |      |  |
|         | 160712         |        |      | ●    |       |       |      | ●    |       |      |  |
|         | 220408         |        | ●    |      |       |       |      |      |       |      |  |
|         | 220412         |        |      | ●    |       |       |      |      |       |      |  |
|         | 220712 T6      |        |      |      |       |       |      |      | ●     |      |  |
|         | 270616         |        |      | ●    |       |       |      |      |       |      |  |
|         | TNMG 160408 CE |        |      | ●    |       |       |      |      |       |      |  |
|         |                |        |      |      |       |       |      |      |       |      |  |
|         |                |        |      |      |       |       |      |      |       |      |  |
|         |                |        |      |      |       |       |      |      |       |      |  |
|         |                |        |      |      |       |       |      |      |       |      |  |
|         |                |        |      |      |       |       |      |      |       |      |  |
|         |                |        |      |      |       |       |      |      |       |      |  |

# T-TURN VNGA VNGX

## Inserti Rombici Negativi a 35°



| Inserto | Descrizione    | Grado  |      |      |       |       |      |      |       |      |  |
|---------|----------------|--------|------|------|-------|-------|------|------|-------|------|--|
|         |                | AB2010 | AB20 | AB30 | AW120 | AS500 | SC10 | AS10 | TC430 | AS20 |  |
|         | VNGA 160404    | ●      | ●    | ●    |       |       | ●    |      |       |      |  |
|         | 160408         | ●      | ●    | ●    |       |       |      | ●    |       |      |  |
|         | 160408 E       |        |      |      |       |       |      |      |       | ●    |  |
|         | 160412         |        | ●    | ●    |       |       |      |      |       |      |  |
|         | 220412         |        |      | ●    |       |       |      |      |       |      |  |
|         | VNGX 160712 CH |        |      |      |       |       |      |      |       |      |  |
|         | 160712 T7-CH   |        |      |      |       |       |      | ●    |       |      |  |
|         | 160716 CH      |        |      |      |       |       |      |      |       |      |  |

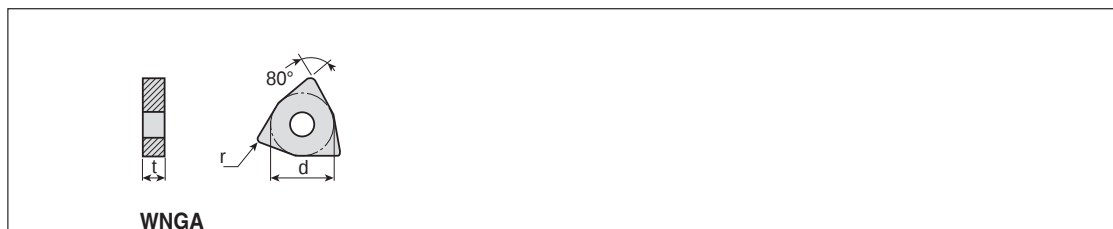
● : Standard



A51, A82,  
A114

# T-TURN WNGA

## Inserti Trigonici Negativi a 80°



| Inserto | Descrizione | Grado  |      |      |       |       |      |      |       |      |  |
|---------|-------------|--------|------|------|-------|-------|------|------|-------|------|--|
|         |             | AB2010 | AB20 | AB30 | AW120 | AS500 | SC10 | AS10 | TC430 | AS20 |  |
|         | WNGA 080408 | ●      | ●    | ●    |       |       | ●    | ●    |       |      |  |
|         | 080412      | ●      | ●    | ●    |       |       | ●    | ●    |       |      |  |
|         | 080412 T7   |        |      |      |       | ●     |      |      |       |      |  |
|         | 080416      |        | ●    | ●    |       |       | ●    |      |       |      |  |
|         |             |        |      |      |       |       |      |      |       |      |  |
|         |             |        |      |      |       |       |      |      |       |      |  |
|         |             |        |      |      |       |       |      |      |       |      |  |
|         |             |        |      |      |       |       |      |      |       |      |  |
|         |             |        |      |      |       |       |      |      |       |      |  |
|         |             |        |      |      |       |       |      |      |       |      |  |

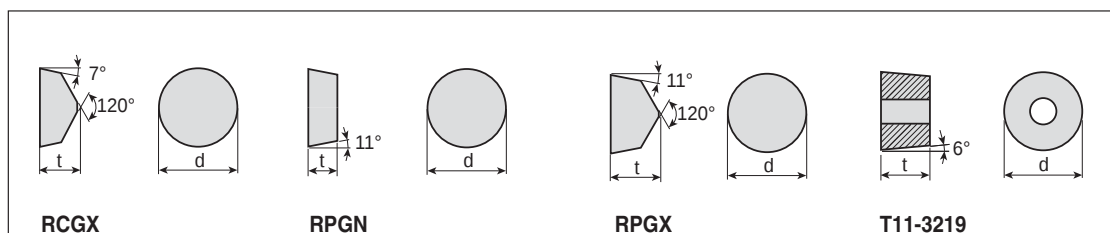
● : Standard



A52, A82, A106,  
A115, A130, A157

# T-TURN RCGX RPGN RPGX T11-

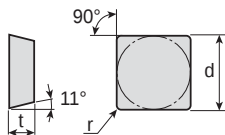
## Inserti Tondi Positivi



| Inserto                                                                             | Descrizione    | Grado  |      |      |       |       |      |      |       |      |  |
|-------------------------------------------------------------------------------------|----------------|--------|------|------|-------|-------|------|------|-------|------|--|
|                                                                                     |                | AB2010 | AB20 | AB30 | AW120 | AS500 | SC10 | AS10 | TC430 | AS20 |  |
|    | RCGX 060600 T6 |        |      |      |       |       |      |      | ●     | ●    |  |
|                                                                                     | 060600 U1      |        |      | ●    |       |       |      |      |       |      |  |
|                                                                                     | 090700 T6      |        |      |      |       |       |      |      | ●     | ●    |  |
|                                                                                     | 090700 U1      |        | ●    | ●    |       |       |      |      |       |      |  |
|                                                                                     | 120700         |        |      | ●    |       |       |      |      |       |      |  |
|                                                                                     | 120700 T6      |        |      |      |       |       |      |      | ●     | ●    |  |
|                                                                                     | 120700 U2      |        | ●    | ●    |       |       |      |      |       |      |  |
|                                                                                     | 151000 U2      |        | ●    | ●    |       |       |      |      |       |      |  |
|                                                                                     | 191000 U2      |        | ●    | ●    |       |       |      |      |       |      |  |
|                                                                                     | 251200 U3      |        | ●    | ●    |       |       |      |      |       |      |  |
|   | RPGN 090300 E  |        |      |      |       |       |      |      | ●     |      |  |
|                                                                                     | 120400 T6      |        |      |      |       |       |      |      | ●     |      |  |
|                                                                                     |                |        |      |      |       |       |      |      |       |      |  |
|  | RPGX 090700 T6 |        |      |      |       |       |      |      | ●     | ●    |  |
|                                                                                     | 120700 T6      |        |      |      |       |       |      |      | ●     | ●    |  |
|                                                                                     |                |        |      |      |       |       |      |      |       |      |  |
|  | T11- 3219      |        | ●    |      |       |       |      |      |       |      |  |
|                                                                                     |                |        |      |      |       |       |      |      |       |      |  |
|                                                                                     |                |        |      |      |       |       |      |      |       |      |  |
|                                                                                     |                |        |      |      |       |       |      |      |       |      |  |
|                                                                                     |                |        |      |      |       |       |      |      |       |      |  |
|                                                                                     |                |        |      |      |       |       |      |      |       |      |  |
|                                                                                     |                |        |      |      |       |       |      |      |       |      |  |
|                                                                                     |                |        |      |      |       |       |      |      |       |      |  |
|                                                                                     |                |        |      |      |       |       |      |      |       |      |  |
|                                                                                     |                |        |      |      |       |       |      |      |       |      |  |

# T-TURN SPGN

## Inserti Quadri Positivi



SPGN

| Inserto | Descrizione | Grado  |      |      |       |       |      |      |       |      |  |
|---------|-------------|--------|------|------|-------|-------|------|------|-------|------|--|
|         |             | AB2010 | AB20 | AB30 | AW120 | AS500 | SC10 | AS10 | TC430 | AS20 |  |
|         | SPGN 120308 |        |      | ●    |       |       |      | ●    |       |      |  |
|         | 120312      |        |      | ●    |       |       |      |      |       |      |  |
|         | 120412      |        |      | ●    |       |       | ●    | ●    |       |      |  |
|         |             |        |      |      |       |       |      |      |       |      |  |
|         |             |        |      |      |       |       |      |      |       |      |  |
|         |             |        |      |      |       |       |      |      |       |      |  |
|         |             |        |      |      |       |       |      |      |       |      |  |

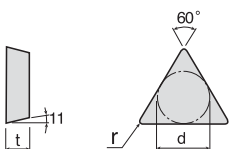
●: Standard



A39, A172

# T-TURN TPGN

## Inserti Triangolari Positivi



TPGN

| Inserto | Descrizione | Grado  |      |      |       |       |      |      |       |      |  |
|---------|-------------|--------|------|------|-------|-------|------|------|-------|------|--|
|         |             | AB2010 | AB20 | AB30 | AW120 | AS500 | SC10 | AS10 | TC430 | AS20 |  |
|         | TPGN 110302 |        | ●    | ●    |       |       |      |      |       |      |  |
|         | 110304      | ●      | ●    | ●    |       |       |      |      |       |      |  |
|         | 110308      | ●      | ●    | ●    |       |       |      |      |       |      |  |
|         | 160304      | ●      | ●    | ●    |       |       |      |      |       |      |  |
|         | 160308      | ●      | ●    | ●    |       |       |      | ●    |       |      |  |
|         | 160308 T6   |        |      |      |       |       |      |      | ●     |      |  |
|         | 160312      |        | ●    | ●    |       |       |      |      |       |      |  |
|         | 220404      |        | ●    |      |       |       |      |      |       |      |  |
|         | 220408      |        |      | ●    |       |       |      |      |       |      |  |
|         | 220412      |        | ●    | ●    |       |       |      |      |       |      |  |

●: Standard



A39, A40,  
A172, A173

## Preparazione Tagliente Inserti CBN

### Tagliente Standard (no Descrizione)

| Grado               | Specifiche Fase |              |             |
|---------------------|-----------------|--------------|-------------|
|                     | Larghezza (mm)  | Angolo ( ° ) | Honing (mm) |
| TB610, TB650, TB670 | 0.13            | 20           | 0.015       |
| TB730, KB90         | 0.13            | 20           | -           |
| KB90A               | 0.2             | 20           | 0.015       |

## Informazioni tecniche per Inserti CBN

CNMA 120408 **LN** : Misura Regolare CBN

CNMA 120408 **LS** : Misura Piccola CBN

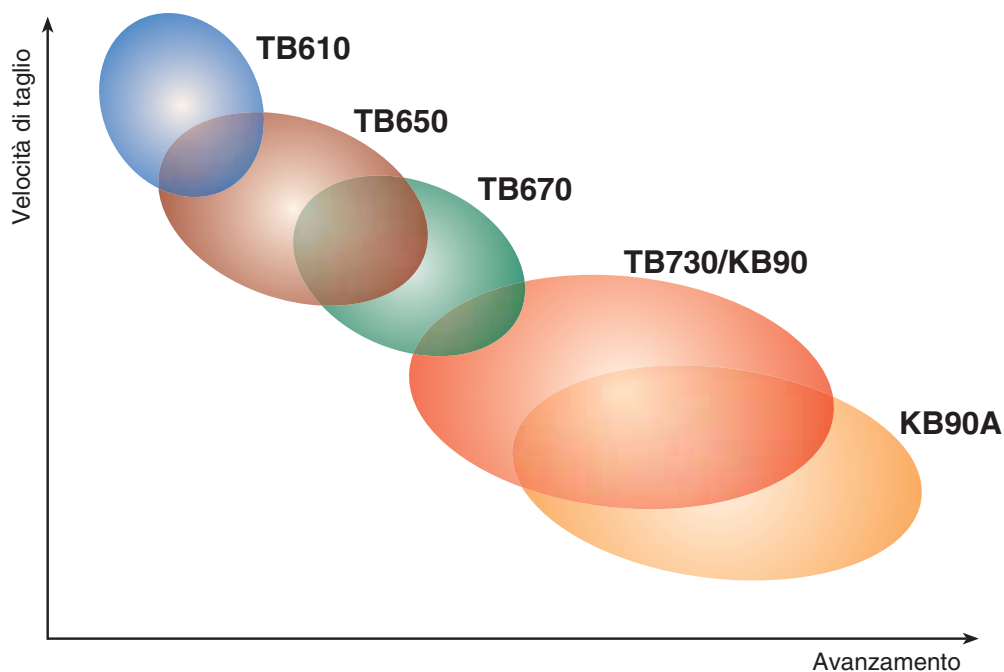
CNMA 120408 **LS2** : Misura Piccola CBN con 2,3,4 taglienti

RCGX 090300 **FT** : CBN su tutta la superficie

CNMN 090308 **SD** : CBN integrale

CNGA 120408 **WZ-LS2**: Geometria Wiper

## Mappa applicazioni gradi CBN



## KP500, KP300, KP100

### Proprietà

| Grado | Caratteristica | PCD (μm) | TRS (GPa) | Durezza (GPa) |
|-------|----------------|----------|-----------|---------------|
| KP100 |                | 4        | 2.0 - 2.2 | 80 - 100      |
| KP300 |                | 10       | 1.8 - 2.0 | 90 - 110      |
| KP500 |                | 25       | 1.0 - 1.2 | 100 - 120     |

### KP500

- Grado con super resistenza all'abrasione
- Progettato per finiture con piccole asportazioni e senza taglio interrotto
- Per Leghe d'alluminio ad alto tenore di Si (Si >12.2%), metallo composito (MMC) e carburo di tungsteno sinterizzato

### KP300

- Il grado KP300 è per lavorazioni generiche
- Buona combinazione tra resistenza all'usura e tenacità
- Per Leghe d'alluminio con basso e medio tenore di Si (Si ≤ 12.2%), leghe di rame e metalli non ferrosi

### KP100

- Basso contenuto di diamante policristallino con grana fine
- Tagliente con alta resistenza e buona finitura superficiale
- Per plastica, legno e alluminio puro

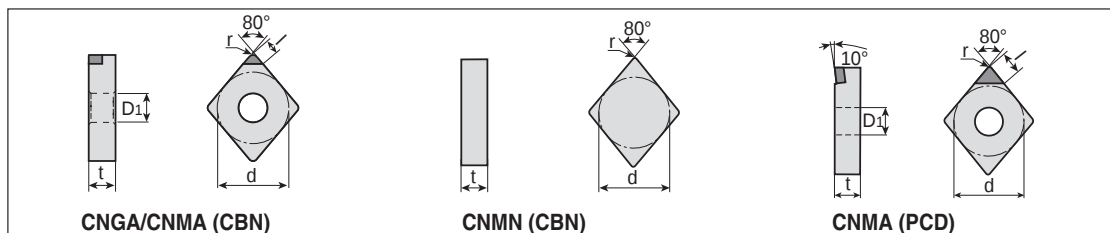
### Parametri di Taglio consigliati

| Materiali                         | Grado        | KP500                                                                                  | KP300                                 | KP100                                   |
|-----------------------------------|--------------|----------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------------|
|                                   | V, f, ap     | Velocità di taglio: V (m/min), Avanzamento: f (mm/giro), Profondità di taglio: ap (mm) |                                       |                                         |
| Lega Al (12.2% ≤ Si)              | V<br>f<br>ap |                                                                                        | 600 - 3000<br>0.05 - 0.3<br>0.1 - 3.0 |                                         |
| Lega Al (12.2% > Si)              | V<br>f<br>ap | 300 - 800<br>0.05 - 0.3<br>0.1 - 3.0                                                   | 300 - 600<br>0.05 - 0.3<br>0.1 - 3.0  |                                         |
| Carburo di Tungsteno Sinterizzato | V<br>f<br>ap | 10 - 30<br>0.05 - 0.15<br>0.02 - 0.5                                                   |                                       |                                         |
| Legno                             | V<br>f<br>ap |                                                                                        |                                       | 1000 - 3000<br>0.1 - 0.5<br>0.2 - 5.0   |
| Leghe Cu                          | V<br>f<br>ap |                                                                                        | 600 - 1500<br>0.05 - 0.3<br>0.1 - 3.0 |                                         |
| Plastica                          | V<br>f<br>ap |                                                                                        |                                       | 300 - 1000<br>0.05 - 0.25<br>0.05 - 2.0 |
| Carbonio (Grafite)                | V<br>f<br>ap |                                                                                        | 100 - 600<br>0.1 - 1.0<br>0.2 - 2.0   |                                         |
| MMC                               | V<br>f<br>ap | 10 - 30<br>0.05 - 0.3<br>0.1 - 1.0                                                     |                                       |                                         |

### Esempi di Lavorazione

| Materiale e Descrizione                      | Inserto        |       | Parametri di Taglio                                                      | Durata (pz./tagliente) |
|----------------------------------------------|----------------|-------|--------------------------------------------------------------------------|------------------------|
|                                              | Descrizione    | Grado |                                                                          |                        |
| Lega di Alluminio 9% Si, Barenatura Cilindro | TPGX 110304    | KP300 | V=410m/min<br>f=0.1mm/giro<br>ap=0.5mm<br>Refrigerante, Taglio continuo  | 6000 pz.               |
| Lega di Alluminio 20% Si, Freno a Disco      | RNMN 090300    | KP500 | V=980m/min<br>f=0.13mm/giro<br>ap=0.5mm<br>Refrigerante, Taglio continuo | 1300 pz.               |
| Lega di Alluminio 10% Si, Carcassa           | DCGT 11T304 CB | KP300 | V=600m/min<br>f=0.45mm/giro<br>ap=1mm<br>Refrigerante, Taglio interrotto | 16500 pz.              |

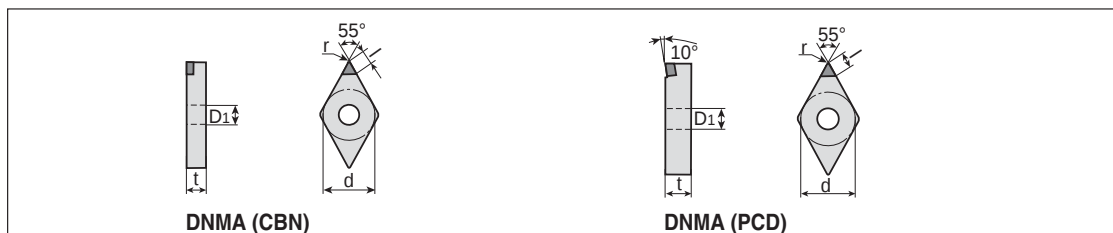
## Inserti Rombici Negativi a 80°



| Inserto                                                                             | Descrizione       | Dimensioni (mm) |      | CBN   |       |       |       |      |       | PCD   |       |       |       |
|-------------------------------------------------------------------------------------|-------------------|-----------------|------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|
|                                                                                     |                   | I               | D1   | TB610 | TB650 | TB670 | TB730 | KB90 | KB90A | KP500 | TD810 | KP300 | KP100 |
|    | CNGA 120404 WZ-LS | 2.1             | 5.16 |       | ●     |       |       |      |       |       |       |       |       |
|                                                                                     | 120404 WZ-LS2     | 2.1             | 5.16 | ●     | ●     | ●     |       |      |       |       |       |       |       |
|                                                                                     | 120404 WZ-LS4     | 2.1             | 5.16 |       |       | ●     |       |      |       |       |       |       |       |
|                                                                                     | 120408 WZ-LS      | 2.1             | 5.16 |       | ●     |       |       | ●    |       |       |       |       |       |
|                                                                                     | 120408 WZ-LS2     | 2.1             | 5.16 | ●     | ●     | ●     | ●     |      |       |       |       |       |       |
|                                                                                     | 120408 WZ-LS4     | 2.1             | 5.16 | ●     |       | ●     |       |      |       |       |       |       |       |
|                                                                                     | 120412 WZ-LS      | 2.5             | 5.16 |       | ●     |       |       | ●    |       |       |       |       |       |
|                                                                                     | 120412 WZ-LS2     | 2.5             | 5.16 |       | ●     | ●     | ●     | ●    |       |       |       |       |       |
|                                                                                     | 120412 WZ-LS4     | 2.5             | 5.16 |       |       | ●     |       |      |       |       |       |       |       |
|    | CNMA 120404 LN    | 4.2             | 5.16 | ●     | ●     | ●     |       | ●    |       |       |       |       |       |
|                                                                                     | 120404 LS         | 2.2             | 5.16 |       | ●     |       |       | ●    |       |       |       |       |       |
|                                                                                     | 120404 LS2        | 2.2             | 5.16 | ●     | ●     | ●     | ●     | ●    |       |       |       |       |       |
|                                                                                     | 120404 LS4        | 2.2             | 5.16 |       | ●     | ●     |       |      |       |       |       |       |       |
|                                                                                     | 120408 LN         | 4.0             | 5.16 | ●     | ●     | ●     | ●     | ●    |       |       |       |       |       |
|                                                                                     | 120408 LS         | 2.1             | 5.16 |       | ●     |       |       | ●    |       |       |       |       |       |
|                                                                                     | 120408 LS2        | 2.1             | 5.16 | ●     | ●     | ●     | ●     | ●    |       |       |       |       |       |
|                                                                                     | 120408 LS4        | 2.1             | 5.16 | ●     | ●     | ●     | ●     | ●    |       |       |       |       |       |
|                                                                                     | 120412 LN         | 3.9             | 5.16 | ●     | ●     | ●     |       | ●    |       |       |       |       |       |
|                                                                                     | 120412 LS         | 2.5             | 5.16 |       | ●     |       |       | ●    |       |       |       |       |       |
|                                                                                     | 120412 LS2        | 2.5             | 5.16 |       | ●     | ●     | ●     | ●    |       |       |       |       |       |
|                                                                                     | 120412 LS4        | 2.5             | 5.16 |       |       | ●     | ●     |      |       |       |       |       |       |
|  | CNMN 090308 SD    | -               | -    |       |       |       |       |      | ●     |       |       |       |       |
|                                                                                     | 090312 SD         | -               | -    |       |       |       |       |      | ●     |       |       |       |       |
|                                                                                     | 090316 SD         | -               | -    |       |       |       |       |      | ●     |       |       |       |       |
|                                                                                     | 120416 SD         | -               | -    |       |       |       |       |      | ●     |       |       |       |       |
|  | CNMA 120404 LN-10 | 4.0             | 5.16 |       |       |       |       |      |       |       | ●     | ●     |       |
|                                                                                     | 120408 LN-10      | 3.9             | 5.16 |       |       |       |       |      |       |       | ●     | ●     |       |
|                                                                                     | 120412 LN-10      | 3.8             | 5.16 |       |       |       |       |      |       |       |       | ●     |       |
|                                                                                     |                   |                 |      |       |       |       |       |      |       |       |       |       |       |

● : Standard

## Inserti Rombici Negativi a 55°

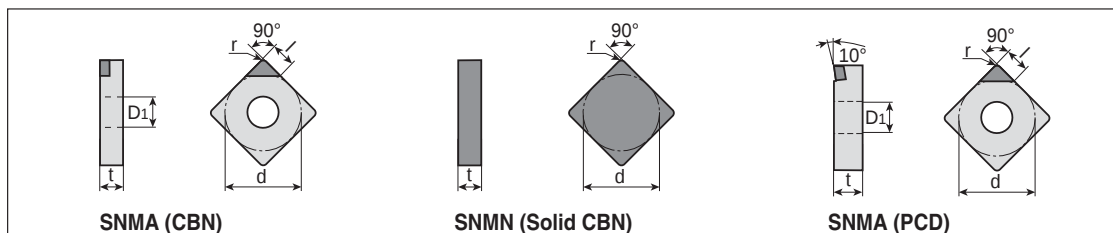


| Inserto | Descrizione | Dimensioni (mm) |      | CBN   |       |       |       |      |       | PCD   |       |       |       |
|---------|-------------|-----------------|------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|
|         |             | l               | D1   | TB610 | TB650 | TB670 | TB730 | KB90 | KB90A | KP500 | TD810 | KP300 | KP100 |
|         | DNMA        | 150404 LN       | 4.2  | 5.16  | ●     | ●     | ●     |      |       |       |       |       |       |
|         |             | 150404 LS       | 2.6  | 5.16  |       | ●     |       | ●    |       |       |       |       |       |
|         |             | 150404 LS2      | 2.6  | 5.16  | ●     | ●     | ●     | ●    |       |       |       |       |       |
|         |             | 150404 LS4      | 2.6  | 5.16  | ●     | ●     | ●     |      |       |       |       |       |       |
|         |             | 150408 LN       | 3.9  | 5.16  | ●     | ●     | ●     | ●    |       |       |       |       |       |
|         |             | 150408 LS       | 2.3  | 5.16  |       | ●     |       | ●    |       |       |       |       |       |
|         |             | 150408 LS2      | 2.3  | 5.16  | ●     | ●     | ●     | ●    |       |       |       |       |       |
|         |             | 150408 LS4      | 2.3  | 5.16  |       |       | ●     |      |       |       |       |       |       |
|         |             | 150412 LN       | 3.5  | 5.16  |       | ●     | ●     | ●    |       |       |       |       |       |
|         |             | 150412 LS2      | 2.2  | 5.16  |       |       | ●     | ●    |       |       |       |       |       |
|         |             | 150412 LS4      | 2.2  | 5.16  |       |       | ●     |      |       |       |       |       |       |
|         |             | 150604 LN       | 4.2  | 5.16  | ●     | ●     | ●     | ●    | ●     |       |       |       |       |
|         |             | 150604 LS       | 2.6  | 5.16  |       | ●     |       |      |       |       |       |       |       |
|         |             | 150604 LS2      | 2.6  | 5.16  | ●     | ●     | ●     | ●    |       |       |       |       |       |
|         |             | 150608 LN       | 3.9  | 5.16  | ●     | ●     | ●     | ●    | ●     |       |       |       |       |
|         |             | 150608 LS2      | 2.3  | 5.16  | ●     | ●     | ●     | ●    | ●     |       |       |       |       |
|         |             | 150608 LS4      | 2.3  | 5.16  |       |       | ●     |      |       |       |       |       |       |
|         |             | 150612 LN       | 3.4  | 5.16  |       |       |       | ●    |       |       |       |       |       |
|         |             | 150612 LS2      | 2.2  | 5.16  |       |       | ●     |      |       |       |       |       |       |
| <br>    | DNMA        | 150404 LN-10    | 4.0  | 5.16  |       |       |       |      |       | ●     | ●     |       |       |
|         |             | 150408 LN-10    | 3.7  | 5.16  |       |       |       |      |       | ●     | ●     |       |       |
|         |             | 150412 LN-10    | 3.47 | 5.16  |       |       |       |      |       |       | ●     |       |       |
|         |             | 150604 LN-10    | 4.0  | 5.16  |       |       |       |      |       | ●     | ●     |       |       |
|         |             | 150608 LN-10    | 3.7  | 5.16  |       |       |       |      |       | ●     | ●     |       |       |
|         |             |                 |      |       |       |       |       |      |       |       |       |       |       |
|         |             |                 |      |       |       |       |       |      |       |       |       |       |       |
|         |             |                 |      |       |       |       |       |      |       |       |       |       |       |
|         |             |                 |      |       |       |       |       |      |       |       |       |       |       |
|         |             |                 |      |       |       |       |       |      |       |       |       |       |       |

● : Standard



## Inserti Quadri Negativi



| Inserto                                                                                                                                                                    | Descrizione       | Dimensioni (mm) |      | CBN   |       |       |       |      |       | PCD   |       |       |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------|------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|
|                                                                                                                                                                            |                   | l               | D1   | TB610 | TB650 | TB670 | TB730 | KB90 | KB90A | KP500 | TD810 | KP300 | KP100 |
|                                                                                           | SNMA 120404 LN    | 4.2             | 5.16 | ●     | ●     |       |       |      |       |       |       |       |       |
|                                                                                                                                                                            | 120404 LS         | 2.5             | 5.16 | ●     |       |       |       | ●    |       |       |       |       |       |
|                                                                                                                                                                            | 120404 LS2        | 2.5             | 5.16 |       |       | ●     | ●     |      |       |       |       |       |       |
|                                                                                                                                                                            | 120404 LS4        | 2.5             | 5.16 |       |       | ●     |       |      |       |       |       |       |       |
|                                                                                                                                                                            | 120408 LN         | 4.2             | 5.16 | ●     | ●     | ●     | ●     | ●    |       |       |       |       |       |
|                                                                                                                                                                            | 120408 LS         | 2.5             | 5.16 |       | ●     |       |       | ●    |       |       |       |       |       |
|                                                                                                                                                                            | 120408 LS2        | 2.5             | 5.16 | ●     |       | ●     | ●     | ●    |       |       |       |       |       |
|                                                                                                                                                                            | 120408 LS4        | 2.5             | 5.16 |       |       | ●     |       |      |       |       |       |       |       |
|                                                                                                                                                                            | 120408 LS8        | 2.5             | 5.16 |       |       | ●     |       |      |       |       |       |       |       |
|                                                                                                                                                                            | 120412 LS         | 2.7             | 5.16 | ●     |       |       |       |      |       |       |       |       |       |
|                                                                                                                                                                            |                   |                 |      |       |       |       |       |      |       |       |       |       |       |
|                                                                                          | SNMN 090308 SD    | -               | -    |       |       |       |       |      | ●     |       |       |       |       |
|                                                                                                                                                                            | 090312 SD         | -               | -    |       |       |       |       |      | ●     |       |       |       |       |
|                                                                                                                                                                            | 090316 SD         | -               | -    |       |       |       |       |      | ●     |       |       |       |       |
|                                                                                                                                                                            | 120312 SD         | -               | -    |       |       |       |       |      | ●     |       |       |       |       |
|                                                                                                                                                                            | 120316 SD         | -               | -    |       |       |       |       |      | ●     |       |       |       |       |
|                                                                                                                                                                            |                   |                 |      |       |       |       |       |      |       |       |       |       |       |
| <br> | SNMA 120408 LN-10 | 4.0             | 5.16 |       |       |       |       |      |       |       |       | ●     |       |
|                                                                                                                                                                            | 120412 LN-10      | 4.0             | 5.16 |       |       |       |       |      |       |       |       | ●     |       |
|                                                                                                                                                                            |                   |                 |      |       |       |       |       |      |       |       |       |       |       |
|                                                                                                                                                                            |                   |                 |      |       |       |       |       |      |       |       |       |       |       |
|                                                                                                                                                                            |                   |                 |      |       |       |       |       |      |       |       |       |       |       |
|                                                                                                                                                                            |                   |                 |      |       |       |       |       |      |       |       |       |       |       |
|                                                                                                                                                                            |                   |                 |      |       |       |       |       |      |       |       |       |       |       |
|                                                                                                                                                                            |                   |                 |      |       |       |       |       |      |       |       |       |       |       |
|                                                                                                                                                                            |                   |                 |      |       |       |       |       |      |       |       |       |       |       |
|                                                                                                                                                                            |                   |                 |      |       |       |       |       |      |       |       |       |       |       |
|                                                                                                                                                                            |                   |                 |      |       |       |       |       |      |       |       |       |       |       |
|                                                                                                                                                                            |                   |                 |      |       |       |       |       |      |       |       |       |       |       |

● : Standard

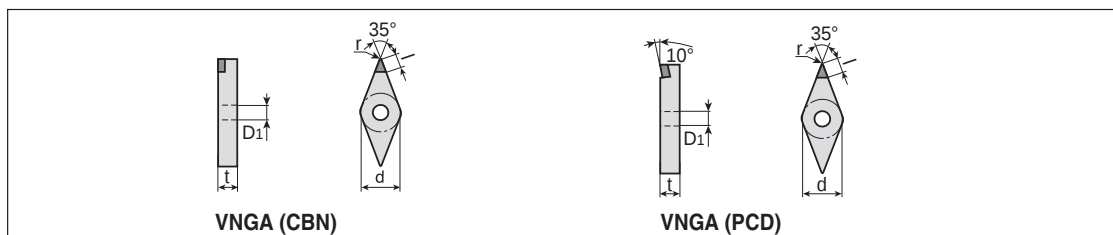
## Inserti Triangolari Negativi



| Inserto                                                                             | Descrizione       | Dimensioni (mm) |      | CBN   |       |       |       |      |       | PCD   |       |       |       |
|-------------------------------------------------------------------------------------|-------------------|-----------------|------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|
|                                                                                     |                   | l               | D1   | TB610 | TB650 | TB670 | TB730 | KB90 | KB90A | KP500 | TD810 | KP300 | KP100 |
|    | TNMA 160404 LN    | 4.3             | 9.52 | ●     | ●     |       |       | ●    |       |       |       |       |       |
|                                                                                     | 160404 LS         | 2.2             | 9.52 |       | ●     |       |       | ●    |       |       |       |       |       |
|                                                                                     | 160404 LS3        | 2.2             | 9.52 | ●     |       | ●     | ●     | ●    |       |       |       |       |       |
|                                                                                     | 160404 LS6        | 2.2             | 9.52 |       | ●     | ●     |       |      |       |       |       |       |       |
|                                                                                     | 160408 LN         | 4               | 9.52 |       | ●     | ●     |       | ●    |       |       |       |       |       |
|                                                                                     | 160408 LS         | 2.1             | 9.52 |       | ●     |       |       | ●    |       |       |       |       |       |
|                                                                                     | 160408 LS3        | 2.1             | 9.52 | ●     | ●     | ●     | ●     | ●    |       |       |       |       |       |
|                                                                                     | 160408 LS6        | 2.1             | 9.52 |       |       | ●     |       |      |       |       |       |       |       |
|                                                                                     | 160412 LN         | 3.4             | 3.81 |       |       |       |       | ●    |       |       |       |       |       |
|                                                                                     | 160412 LS         | 2.5             | 9.52 |       | ●     |       |       |      |       |       |       |       |       |
|                                                                                     | 160412 LS3        | 2.5             | 9.52 |       |       | ●     | ●     |      |       |       |       |       |       |
|                                                                                     | 160416 LN         | 3.1             | 9.52 |       | ●     |       |       |      |       |       |       |       |       |
|                                                                                     | 160416 LS         | 2.4             | 9.52 |       | ●     |       |       | ●    |       |       |       |       |       |
|                                                                                     | 220404 LN         | 4.1             | 5.16 |       | ●     |       |       |      |       |       |       |       |       |
|                                                                                     | 220408 LS         | 2.6             | 5.16 |       | ●     |       |       |      |       |       |       |       |       |
|  | TNMA 160404 LN-10 | 4.3             | 3.81 |       |       |       |       |      |       |       | ●     | ●     |       |
|                                                                                     | 160408 LN-10      | 4.0             | 3.81 |       |       |       |       |      |       |       |       | ●     |       |
|                                                                                     |                   |                 |      |       |       |       |       |      |       |       |       |       |       |
|                                                                                     |                   |                 |      |       |       |       |       |      |       |       |       |       |       |
|                                                                                     |                   |                 |      |       |       |       |       |      |       |       |       |       |       |
|                                                                                     |                   |                 |      |       |       |       |       |      |       |       |       |       |       |
|                                                                                     |                   |                 |      |       |       |       |       |      |       |       |       |       |       |
|                                                                                     |                   |                 |      |       |       |       |       |      |       |       |       |       |       |
|                                                                                     |                   |                 |      |       |       |       |       |      |       |       |       |       |       |
|                                                                                     |                   |                 |      |       |       |       |       |      |       |       |       |       |       |
|                                                                                     |                   |                 |      |       |       |       |       |      |       |       |       |       |       |
|                                                                                     |                   |                 |      |       |       |       |       |      |       |       |       |       |       |
|                                                                                     |                   |                 |      |       |       |       |       |      |       |       |       |       |       |
|                                                                                     |                   |                 |      |       |       |       |       |      |       |       |       |       |       |
|                                                                                     |                   |                 |      |       |       |       |       |      |       |       |       |       |       |
|                                                                                     |                   |                 |      |       |       |       |       |      |       |       |       |       |       |

● : Standard

## Inserti Rombici Negativi a 35°

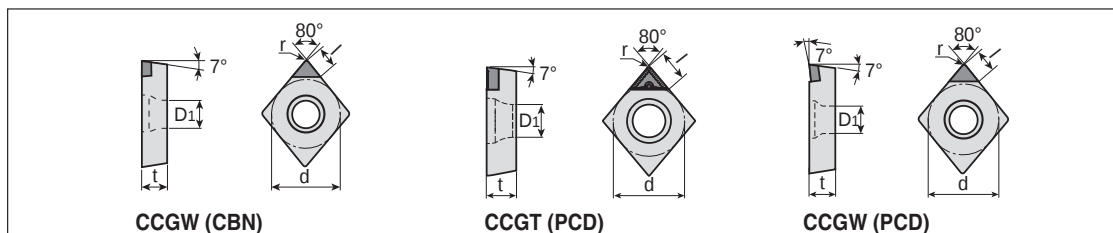


| Inserto                                                                             | Descrizione       | Dimensioni (mm) |      | CBN   |       |       |       |      |       | PCD   |       |       |       |
|-------------------------------------------------------------------------------------|-------------------|-----------------|------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|
|                                                                                     |                   | I               | D1   | TB610 | TB650 | TB670 | TB730 | KB90 | KB90A | KP500 | TD810 | KP300 | KP100 |
|    | VNGA 160404 LN    | 5.0             | 3.81 |       | ●     | ●     |       |      |       |       |       |       |       |
|                                                                                     | 160404 LS         | 3.2             | 3.81 |       | ●     |       |       | ●    |       |       |       |       |       |
|                                                                                     | 160404 LS2        | 3.2             | 3.81 | ●     |       | ●     | ●     |      |       |       |       |       |       |
|                                                                                     | 160408 LN         | 4.1             | 3.81 |       | ●     | ●     |       | ●    |       |       |       |       |       |
|                                                                                     | 160408 LS         | 2.4             | 3.81 |       | ●     |       |       | ●    |       |       |       |       |       |
|                                                                                     | 160408 LS2        | 2.4             | 3.81 | ●     | ●     | ●     | ●     |      |       |       |       |       |       |
|                                                                                     | 160408 LS4        | 2.4             | 3.81 |       |       | ●     |       | ●    |       |       |       |       |       |
|  | VNGA 160404 LN-10 | 5.0             | 3.81 |       |       |       |       |      |       |       | ●     | ●     |       |
|                                                                                     | 160408 LN-10      | 4.1             | 3.81 |       |       |       |       |      |       |       | ●     | ●     |       |
|                                                                                     | 160412 LN-10      | 3.7             | 3.81 |       |       |       |       |      |       |       |       | ●     |       |
|                                                                                     |                   |                 |      |       |       |       |       |      |       |       |       |       |       |
|                                                                                     |                   |                 |      |       |       |       |       |      |       |       |       |       |       |
|                                                                                     |                   |                 |      |       |       |       |       |      |       |       |       |       |       |
|                                                                                     |                   |                 |      |       |       |       |       |      |       |       |       |       |       |
|                                                                                     |                   |                 |      |       |       |       |       |      |       |       |       |       |       |
|                                                                                     |                   |                 |      |       |       |       |       |      |       |       |       |       |       |
|                                                                                     |                   |                 |      |       |       |       |       |      |       |       |       |       |       |
|                                                                                     |                   |                 |      |       |       |       |       |      |       |       |       |       |       |
|                                                                                     |                   |                 |      |       |       |       |       |      |       |       |       |       |       |
|                                                                                     |                   |                 |      |       |       |       |       |      |       |       |       |       |       |
|                                                                                     |                   |                 |      |       |       |       |       |      |       |       |       |       |       |
|                                                                                     |                   |                 |      |       |       |       |       |      |       |       |       |       |       |
|                                                                                     |                   |                 |      |       |       |       |       |      |       |       |       |       |       |
|                                                                                     |                   |                 |      |       |       |       |       |      |       |       |       |       |       |

● : Standard



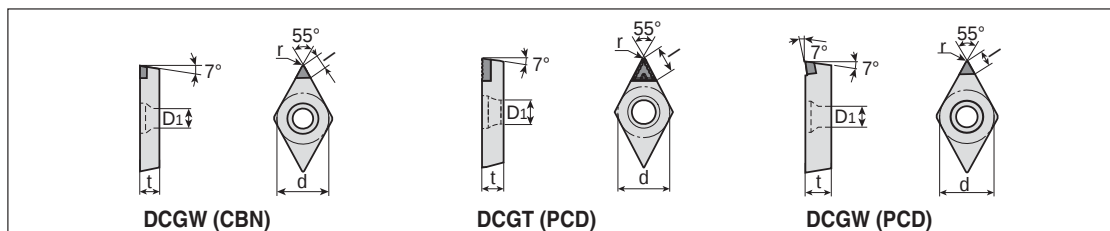
## Inserti Rombici Positivi a 80°



| Inserto                | Descrizione      | Dimensioni (mm) |     | CBN   |       |       |       |      |       | PCD   |       |       |       |
|------------------------|------------------|-----------------|-----|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|
|                        |                  | l               | D1  | TB610 | TB650 | TB670 | TB730 | KB90 | KB90A | KP500 | TD810 | KP300 | KP100 |
|                        | CCGW 060202 LS   | 2.4             | 2.8 |       | ●     |       |       | ●    |       |       |       |       |       |
|                        | 060202 LS2       | 2.2             | 2.8 |       |       | ●     | ●     |      |       |       |       |       |       |
|                        | 060204 LS        | 2.4             | 2.8 |       | ●     |       |       | ●    |       |       |       |       |       |
|                        | 060204 LS2       | 2.1             | 2.8 | ●     |       | ●     | ●     |      |       |       |       |       |       |
|                        | 060208 LS2       | 2.1             | 2.8 | ●     |       | ●     | ●     |      |       |       |       |       |       |
|                        | 09T304 LS        | 2.4             | 4.4 |       | ●     |       |       | ●    |       |       |       |       |       |
|                        | 09T304 LS2       | 2.4             | 4.4 | ●     | ●     | ●     | ●     | ●    |       |       |       |       |       |
|                        | 09T304 WZ-LS     | 2.8             | 4.4 |       | ●     |       |       |      |       |       |       |       |       |
|                        | 09T304 WZ-LS2    | 2.4             | 4.4 | ●     | ●     | ●     | ●     |      |       |       |       |       |       |
|                        | 09T308 LS        | 2.3             | 4.4 |       | ●     |       |       | ●    |       |       |       |       |       |
|                        | 09T308 LS2       | 2.3             | 4.4 | ●     |       | ●     | ●     |      |       |       |       |       |       |
|                        | 09T308 WZ-LS     | 2.3             | 4.4 |       | ●     |       |       | ●    |       |       |       |       |       |
|                        | 09T308 WZ-LS2    | 2.3             | 4.4 |       | ●     | ●     | ●     |      |       |       |       |       |       |
|                        | 120404 LS        | 2.6             | 5.5 |       |       |       |       | ●    |       |       |       |       |       |
|                        | 120404 LS2       | 2.1             | 5.5 |       |       |       | ●     |      |       |       |       |       |       |
|                        | 120408 LS        | 2.5             | 5.5 |       |       |       |       | ●    |       |       |       |       |       |
|                        | 120408 LS2       | 2.1             | 5.5 |       |       |       | ●     |      |       |       |       |       |       |
|                        | CCGT 060204 CB   | 3.1             | 2.8 |       |       |       |       |      |       |       |       | ●     |       |
|                        | 09T302 CB        | 4.15            | 4.4 |       |       |       |       |      |       |       |       | ●     |       |
|                        | 09T304 CB        | 4.1             | 4.4 |       |       |       |       |      |       |       |       | ●     |       |
|                        | 09T308 CB        | 4.0             | 4.4 |       |       |       |       |      |       |       |       | ●     |       |
|                        | 120404 CB        | 4.1             | 5.5 |       |       |       |       |      |       |       |       | ●     |       |
|                        | 120408 CB        | 4.0             | 5.5 |       |       |       |       |      |       |       |       | ●     |       |
| <br>PCD Rompitrucciolo | CCGW 060202 LN-7 | 3.1             | 2.8 |       |       |       |       |      |       | ●     | ●     |       |       |
|                        | 060204 LN-7      | 3.1             | 2.8 |       |       |       |       |      |       | ●     | ●     |       |       |
|                        | 060208 LN-7      | 3.0             | 2.8 |       |       |       |       |      |       | ●     |       |       |       |
|                        | 09T304 LN-7      | 4.0             | 4.4 |       |       |       |       |      |       | ●     | ●     |       |       |
|                        | 09T308 LN-7      | 3.9             | 4.4 |       |       |       |       |      |       | ●     | ●     |       |       |
|                        | 120404 LN-7      | 4.0             | 5.5 |       |       |       |       |      |       | ●     | ●     |       |       |
|                        | 120408 LN-7      | 3.9             | 5.5 |       |       |       |       |      |       | ●     | ●     |       |       |
|                        |                  |                 |     |       |       |       |       |      |       |       |       |       |       |

● : Standard

## Inserti Rombici Positivi a 55°

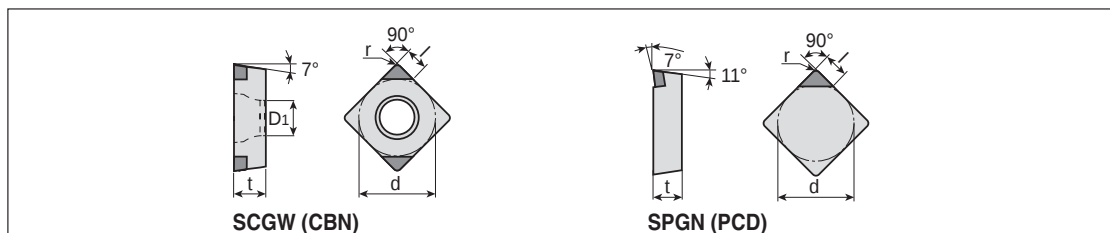


| Inserto                                                                                                                                                                                         | Descrizione      | Dimensioni (mm) |     | CBN   |       |       |       |      |       | PCD   |       |       |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------|-----|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|
|                                                                                                                                                                                                 |                  | l               | D1  | TB610 | TB650 | TB670 | TB730 | KB90 | KB90A | KP500 | TD810 | KP300 | KP100 |
|                                                                                                                | DCGW 070202 LS   | 2.6             | 2.8 |       | ●     |       |       | ●    |       |       |       |       |       |
|                                                                                                                                                                                                 | 070202 LS2       | 2.6             | 2.8 | ●     |       | ●     | ●     |      |       |       |       |       |       |
|                                                                                                                                                                                                 | 070204 LS        | 2.4             | 2.8 |       | ●     |       |       | ●    |       |       |       |       |       |
|                                                                                                                                                                                                 | 070204 LS2       | 2.4             | 2.8 | ●     |       | ●     | ●     |      |       |       |       |       |       |
|                                                                                                                                                                                                 | 070208 LS        | 2.1             | 2.8 |       |       |       |       | ●    |       |       |       |       |       |
|                                                                                                                                                                                                 | 070208 LS2       | 2.6             | 4.4 |       |       |       | ●     |      |       |       |       |       |       |
|                                                                                                                                                                                                 | 11T304 LS        | 2.6             | 4.4 |       | ●     |       |       | ●    |       |       |       |       |       |
|                                                                                                                                                                                                 | 11T304 LS2       | 3.4             | 4.4 | ●     |       | ●     | ●     |      |       |       |       |       |       |
|                                                                                                                                                                                                 | 11T308 LS        | 2.2             | 4.4 |       | ●     |       |       | ●    |       |       |       |       |       |
|                                                                                                                                                                                                 | 11T308 LS2       | 2.2             | 4.4 | ●     |       | ●     | ●     |      |       |       |       |       |       |
|                                                                                                                                                                                                 |                  |                 |     |       |       |       |       |      |       |       |       |       |       |
|                                                                                                                                                                                                 |                  |                 |     |       |       |       |       |      |       |       |       |       |       |
| <br><br>PCD Rompitruciolo | DCGT 070202 CB   | 3.4             | 2.8 |       |       |       |       |      |       |       |       | ●     |       |
|                                                                                                                                                                                                 | 070204 CB        | 3.3             | 2.8 |       |       |       |       |      |       |       |       | ●     |       |
|                                                                                                                                                                                                 | 11T302 CB        | 4.9             | 4.4 |       |       |       |       |      |       |       |       | ●     |       |
|                                                                                                                                                                                                 | 11T304 CB        | 4.7             | 4.4 |       |       |       |       |      |       |       |       | ●     |       |
|                                                                                                                                                                                                 | 11T308 CB        | 4.4             | 4.4 |       |       |       |       |      |       |       |       | ●     |       |
|                                                                                                                                                                                                 |                  |                 |     |       |       |       |       |      |       |       |       |       |       |
| <br>                      | DCGW 070202 LN-7 | 3.4             | 2.8 |       |       |       |       |      |       | ●     | ●     |       |       |
|                                                                                                                                                                                                 | 070204 LN-7      | 3.3             | 2.8 |       |       |       |       |      |       | ●     | ●     |       |       |
|                                                                                                                                                                                                 | 11T302 LN-7      | 3.9             | 4.4 |       |       |       |       |      |       | ●     | ●     |       |       |
|                                                                                                                                                                                                 | 11T304 LN-7      | 3.7             | 4.4 |       |       |       |       |      |       | ●     | ●     |       |       |
|                                                                                                                                                                                                 | 11T308 LN-7      | 3.3             | 4.4 |       |       |       |       |      |       | ●     | ●     |       |       |
|                                                                                                                                                                                                 |                  |                 |     |       |       |       |       |      |       |       |       |       |       |

● : Standard



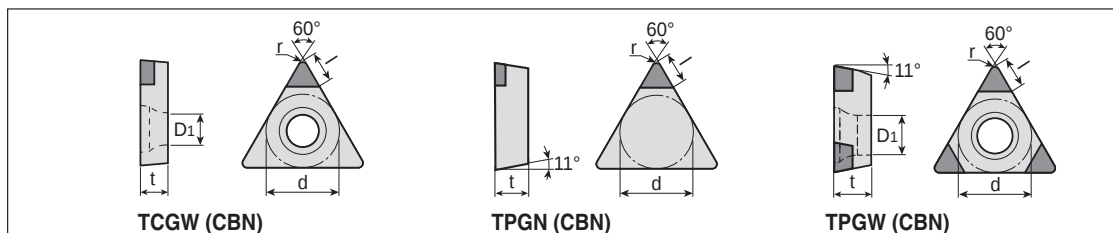
## Inserti Quadri Positivi



| Inserto                                                                             | Descrizione      | Dimensioni (mm) |     | CBN   |       |       |       |      |       | PCD   |       |       |       |
|-------------------------------------------------------------------------------------|------------------|-----------------|-----|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|
|                                                                                     |                  | I               | D1  | TB610 | TB650 | TB670 | TB730 | KB90 | KB90A | KP500 | TD810 | KP300 | KP100 |
|    | SCGW 09T304 LS2  | 2.7             | 4.4 |       |       |       | ●     |      |       |       |       |       |       |
|                                                                                     | 09T308 LS2       | 2.7             | 4.4 |       |       |       | ●     |      |       |       |       |       |       |
|                                                                                     |                  |                 |     |       |       |       |       |      |       |       |       |       |       |
|                                                                                     |                  |                 |     |       |       |       |       |      |       |       |       |       |       |
|                                                                                     |                  |                 |     |       |       |       |       |      |       |       |       |       |       |
|                                                                                     |                  |                 |     |       |       |       |       |      |       |       |       |       |       |
|                                                                                     |                  |                 |     |       |       |       |       |      |       |       |       |       |       |
|                                                                                     |                  |                 |     |       |       |       |       |      |       |       |       |       |       |
|                                                                                     |                  |                 |     |       |       |       |       |      |       |       |       |       |       |
|                                                                                     |                  |                 |     |       |       |       |       |      |       |       |       |       |       |
|                                                                                     |                  |                 |     |       |       |       |       |      |       |       |       |       |       |
|  | SPGN 090308 LN-7 | 3.9             | -   |       |       |       |       |      |       |       |       | ●     |       |
|                                                                                     | 120308 LN-7      | 3.9             | -   |       |       |       |       |      |       |       |       | ●     |       |
|                                                                                     |                  |                 |     |       |       |       |       |      |       |       |       |       |       |
|                                                                                     |                  |                 |     |       |       |       |       |      |       |       |       |       |       |
|                                                                                     |                  |                 |     |       |       |       |       |      |       |       |       |       |       |
|                                                                                     |                  |                 |     |       |       |       |       |      |       |       |       |       |       |
|                                                                                     |                  |                 |     |       |       |       |       |      |       |       |       |       |       |
|                                                                                     |                  |                 |     |       |       |       |       |      |       |       |       |       |       |
|                                                                                     |                  |                 |     |       |       |       |       |      |       |       |       |       |       |
|                                                                                     |                  |                 |     |       |       |       |       |      |       |       |       |       |       |

● : Standard

## Inserti Triangolari Positivi

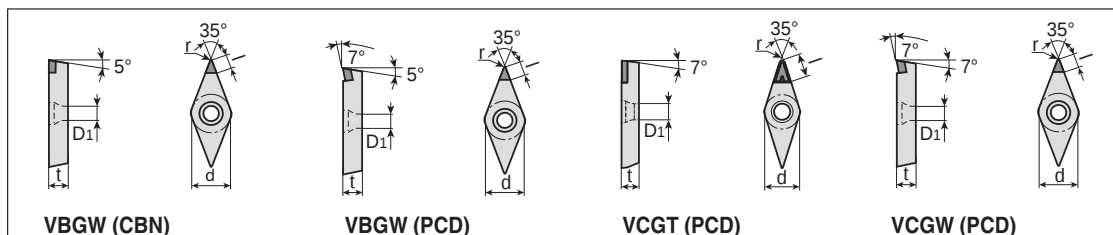


| Inserto | Descrizione     | Dimensioni (mm) |     | CBN   |       |       |       |      |       | PCD   |       |       |       |
|---------|-----------------|-----------------|-----|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|
|         |                 | l               | D1  | TB610 | TB650 | TB670 | TB730 | KB90 | KB90A | KP500 | TD810 | KP300 | KP100 |
|         | TCGW 090204 LS3 | 2.3             | 2.5 | ●     |       | ●     | ●     |      |       |       |       |       |       |
|         | 090208 LS3      | 2.1             | 2.5 |       |       | ●     |       |      |       |       |       |       |       |
|         | 110204 LS       | 2.3             | 2.8 |       | ●     |       |       | ●    |       |       |       |       |       |
|         | 110204 LS3      | 2.3             | 2.8 | ●     |       | ●     | ●     |      |       |       |       |       |       |
|         | 110208 LS       | 2.1             | 2.8 |       | ●     |       |       | ●    |       |       |       |       |       |
|         | 110208 LS3      | 2.1             | 2.8 |       | ●     | ●     | ●     |      |       |       |       |       |       |
|         | 16T304 LS       | 2.8             | 4.4 |       | ●     |       |       | ●    |       |       |       |       |       |
|         | 16T304 LS3      | 2.8             | 4.4 | ●     |       | ●     | ●     |      |       |       |       |       |       |
|         | 16T308 LS       | 2.5             | 4.4 |       | ●     |       |       | ●    |       |       |       |       |       |
|         | 16T308 LS3      | 2.5             | 4.4 | ●     |       | ●     | ●     | ●    |       |       |       |       |       |
|         | TPGN 090204 LS3 | 2.3             | -   | ●     |       |       |       |      |       |       |       |       |       |
|         | 110302 LS3      | 2.8             | -   |       |       |       | ●     |      |       |       |       |       |       |
|         | 110304 LS       | 2.6             | -   |       | ●     |       |       | ●    |       |       |       |       |       |
|         | 110304 LS3      | 2.6             | -   | ●     |       | ●     | ●     |      |       |       |       |       |       |
|         | 110308 LS       | 2.3             | -   |       | ●     |       |       | ●    |       |       |       |       |       |
|         | 110308 LS3      | 2.3             | -   | ●     |       | ●     | ●     |      |       |       |       |       |       |
|         | 160304 LS       | 2.8             | -   |       | ●     |       |       | ●    |       |       |       |       |       |
|         | 160304 LS3      | 2.8             | -   | ●     |       | ●     | ●     |      |       |       |       |       |       |
|         | 160308 LS       | 2.5             | -   |       | ●     |       |       | ●    |       |       |       |       |       |
|         | 160308 LS3      | 2.5             | -   | ●     |       | ●     | ●     |      |       |       |       |       |       |
|         | 220408 LS       | 2.6             | -   |       | ●     |       |       | ●    |       |       |       |       |       |
|         |                 |                 |     |       |       |       |       |      |       |       |       |       |       |
|         | TPGW 080204 LS3 | 2.1             | 2.5 |       |       | ●     |       |      |       |       |       |       |       |
|         | 090204 LS3      | 2.3             | 2.5 |       |       | ●     | ●     |      |       |       |       |       |       |
|         | 090208 LS3      | 2               | 2.5 |       |       | ●     |       |      |       |       |       |       |       |
|         | 110302 LS3      | 2.8             | 3.4 | ●     |       |       | ●     |      |       |       |       |       |       |
|         | 110304 LS       | 2.6             | 3.4 |       | ●     | ●     |       |      |       |       |       |       |       |
|         | 110304 LS3      | 2.6             | 3.4 | ●     |       |       | ●     |      |       |       |       |       |       |
|         | 110308 LS3      | 2.3             | 3.4 | ●     |       | ●     | ●     |      |       |       |       |       |       |
|         | 160404 LS3      | 2.8             | 4.4 |       |       | ●     |       |      |       |       |       |       |       |
|         | 160408 LS3      | 2.5             | 4.4 |       |       | ●     |       |      |       |       |       |       |       |
|         |                 |                 |     |       |       |       |       |      |       |       |       |       |       |

● : Standard



## Inserti Rombici Positivi a 35°



| Inserto                                                                                                                                                                                         | Descrizione      | Dimensioni (mm) |      | CBN   |       |       |       |      |       | PCD   |       |       |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------|------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|
|                                                                                                                                                                                                 |                  | l               | D1   | TB610 | TB650 | TB670 | TB730 | KB90 | KB90A | KP500 | TD810 | KP300 | KP100 |
|                                                                                                                | VBGW 110304 LS2  | 3.2             | 2.8  |       |       | ●     |       |      |       |       |       |       |       |
|                                                                                                                                                                                                 | 110308 LS2       | 2.4             | 2.8  |       |       | ●     |       |      |       |       |       |       |       |
|                                                                                                                                                                                                 | 160402 LS2       | 3.6             | 4.4  |       |       | ●     |       |      |       |       |       |       |       |
|                                                                                                                                                                                                 | 160404 LS        | 3.2             | 4.4  |       | ●     |       |       | ●    |       |       |       |       |       |
|                                                                                                                                                                                                 | 160404 LS2       | 3.2             | 4.4  | ●     |       | ●     | ●     |      |       |       |       |       |       |
|                                                                                                                                                                                                 | 160408 LS        | 2.3             | 4.4  |       | ●     |       |       | ●    |       |       |       |       |       |
|                                                                                                                                                                                                 | 160408 LS2       | 2.3             | 4.4  | ●     |       | ●     | ●     |      |       |       |       |       |       |
|                                                                                                                                                                                                 |                  |                 |      |       |       |       |       |      |       |       |       |       |       |
|                                                                                                                                                                                                 |                  |                 |      |       |       |       |       |      |       |       |       |       |       |
|                                                                                                                                                                                                 |                  |                 |      |       |       |       |       |      |       |       |       |       |       |
|                                                                                                              | VBGW 160402 LN-7 | 5.2             | 4.4  |       |       |       |       |      |       |       | ●     | ●     |       |
|                                                                                                                                                                                                 | 160404 LN-7      | 5.0             | 4.4  |       |       |       |       |      |       |       | ●     | ●     |       |
|                                                                                                                                                                                                 | 160408 LN-7      | 4.2             | 4.4  |       |       |       |       |      |       |       | ●     | ●     |       |
|                                                                                                                                                                                                 |                  |                 |      |       |       |       |       |      |       |       |       |       |       |
| <br><br>PCD Rompitruciolo | VCGT 110302 CB   | 4.7             | 2.8  |       |       |       |       |      |       |       |       | ●     |       |
|                                                                                                                                                                                                 | 110304 CB        | 5.0             | 2.8  |       |       |       |       |      |       |       |       | ●     |       |
|                                                                                                                                                                                                 | 160404 CB        | 7.3             | 3.81 |       |       |       |       |      |       |       |       | ●     |       |
|                                                                                                                                                                                                 | 160408 CB        | 6.4             | 3.81 |       |       |       |       |      |       |       |       | ●     |       |
|                                                                                                                                                                                                 | 160412 CB        | 6.2             | 3.81 |       |       |       |       |      |       |       |       | ●     |       |
|                                                                                                                                                                                                 | 220530 CB        | 6.4             | 5.5  |       |       |       |       |      |       |       |       | ●     |       |
|                                                                                                                                                                                                 |                  |                 |      |       |       |       |       |      |       |       |       |       |       |
|                                                                                                              | VCGW 110304 LN-7 | 5.0             | 2.8  |       |       |       |       |      |       |       | ●     |       |       |
|                                                                                                                                                                                                 | 110308 LN-7      | 4.1             | 2.8  |       |       |       |       |      |       |       | ●     |       |       |
|                                                                                                                                                                                                 | 160404 LN-7      | 5.0             | 4.4  |       |       |       |       |      |       |       | ●     | ●     |       |
|                                                                                                                                                                                                 | 160408 LN-7      | 4.1             | 4.4  |       |       |       |       |      |       |       | ●     | ●     |       |
|                                                                                                                                                                                                 |                  |                 |      |       |       |       |       |      |       |       |       |       |       |

● : Standard