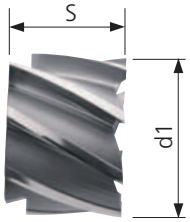
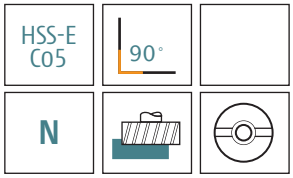
Rime

SERIE
C

FRESE FRONTALI - FINITURA

NORM	TIPO-TYPE
UNI 3903 DIN 841-1880 ISO 2586	SHORT · NORMAL · LONG · EXTRA-LONG





C2

- FRESE FRONTALI - FINITURA - Denti elicoidali rinforzati - Cava trascinamento trasversale
- SHELL END MILLS - Reinforced helical teeth - Slot for transverse dragging
- FRAISES À CYLINDRES FRONTALES - Denture hélicoïdale renforcée - Fente de traînement transversal
- WALZENSTIRNFRÄSER - Verstärkte Spiralzähne - Mitnehmerquernut Schlitz
- FRESAS CILINDRICAS FRONTALES - Labios helicoidales reforzados - Agujero condiucimiento trasversal
- FRESAS CILINDRICAS FRONTAIS
- Фреза торцевая с усиленным зубом

CODE	d1 mm js16	s mm k16	d mm H7	Z	Co 5% €
C2/01	40	32	16	8	•
C2/02	50	36	22	8	•
C2/03	63	40	27	8	•
C2/04	80	45	27	10	•
C2/05	100	50	32	12	•
C2/06	125	56	40	14	•

Toll. reale sul Ø / *Real Tol. on Ø* +0,05 -0

Parametri
Cutting data
pag. 199-222

Suggerimenti Suggestion

SGROSSATURA - ROUGHING ■□□□□
SEMIFINITURA - SEMIFINISHING ■■□□□
FINITURA - FINISHING ■■■■■

Lavorazioni Workings

Apertura cava Slotting	Contornatura Side milling	Copia 3D 3D copying	Assiale Axial	Rampa Ramping	Spianatura Face milling
□	■	□	□	□	■

Materiali Materials

ACCIAI STEELS	GHISE CAST IRON	ACCIAI INOSSIDABILI STAINLESS STEELS	SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM	LEGHE LEGGERE LIGHT ALLOYS	MATERIALI NON FERROSI NON FERROUS MATERIAL
■	■	◪	◪	◪	◪

CONSIGLIATO RECOMMENDED ■
ACCETTABILE ACCEPTABLE ◪
SCONSIGLIATO NOT RECOMMENDED □

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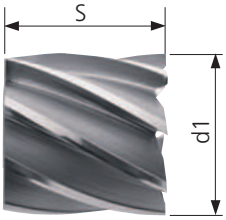
Rime

SERIE
C

FRESE FRONTALI - FINITURA

NORM	TIPO-TYPE
UNI 3903	SHORT NORMAL LONG EXTRA-LONG
DIN 841-1880	
ISO 2586	



HSS-E Co8 | 90° | N

C3

- FRESE FRONTALI - FINITURA - Denti elicoidali rinforzati - Spacco longitudinale
- SHELL END MILLS - Reinforced helical teeth - Longitudinal slot
- FRAISES À CYLINDRES FRONTALES - Denture hélicoïdale renforcée - Fente longitudinale
- WALZENSTIRNFRÄSER - Verstärkte Spiralzähne - Mitnehmerlängsnut
- FRESAS CILINDRICAS FRONTALES - Labios helicoidales reforzados - Hendidura longitudinal
- FRESAS CILINDRICAS FRONTAIS
- Фреза торцевая с усиленным зубом. Шпоночный паз

CODE	d1 mm js16	s mm k16	d mm H7	Z	Co 5% €
C3/01	30	30	13	8	•
C3/02	35	35	16	8	•
C3/03	40	20	16	8	•
C3/04	40	40	16	8	•
C3/05	50	25	22	8	•
C3/06	50	50	22	8	•
C3/07	60	30	27	8	•
C3/08	60	60	27	8	•
C3/09	75	35	27	10	•
C3/10	75	75	27	10	•
C3/11	90	35	27	12	•
C3/12	110	35	32	14	•

Toll. reale sul Ø / *Real Tol. on Ø* +0,05 -0

Parametri
Cutting data
pag. 199-222

Suggerimenti Suggestion

SGROSSATURA - ROUGHING ■□□□□
SEMIFINITURA - SEMIFINISHING ■■□□□
FINITURA - FINISHING ■■■■■

Lavorazioni Workings

Apertura cava Slotting	Contornatura Side milling	Copia 3D 3D copying	Assiale Axial	Rampa Ramping	Spianatura Face milling
□	■	□	□	□	■

Materiali Materials

ACCIAI STEELS	GHISE CAST IRON	ACCIAI INOSSIDABILI STAINLESS STEELS	SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM	LEGHE LEGGERE LIGHT ALLOYS	MATERIALI NON FERROSI NON FERROUS MATERIAL
■	■	◪	◪	◪	◪

CONSIGLIATO RECOMMENDED ■
ACCETTABILE ACCEPTABLE ◪
SCONSIGLIATO NOT RECOMMENDED □

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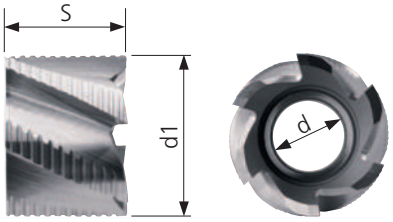
FRESE FRONTALI - SEMIFINITURA

NORM	TIPO-TYPE
UNI 3903 DIN 841-1880 ISO 2586	SHORT NORMAL LONG EXTRA-LONG



HSS-E Co8 | 45° | NF

C5A

- FRESE FRONTALI - SEMIFINITURA - Denti elicoidali con rompitruciolo spogliato completamente rettificato. Esecuzione per semifinitura - Cava trascinamento trasversale
- SHELL END MILLS - Helical teeth with form relieved entirely ground chip-breaker. Semifinishing type -Slot for transverse dragging
- FRAISES À CYLINDRES FRONTALES - Denture hélicoïdale avec brise-copeaux dépouillé entièrement rectifié. Exécution pour demi-fini - Fente de traînement transversal
- WALZENSTIRNFRÄSER - Schrägschneiden mit voll eingeschliffenem Mitnehmerquernut. Ausführung zur Halbbearbeitung - Querbetriebs Schlitz
- FRESAS CILINDRICAS FRONTALES - Labios helicoidal con arranca de viruta completamente rectificado para semiacabado - Agujero conducimiento trasversal
- FRESAS CILINDRICAS FRONTAIS - Fresa concha com navalha reforçada normal
- Фреза торцевая для получистовой обработки со стружколомом, с усиленным зубом

CODE	d1 mm js16	s mm k16	d mm H7	Z	Co 8% €
C5/01/A	40	32	16	6	•
C5/02/A	50	36	22	6	•
C5/03/A	63	40	27	8	•
C5/04/A	80	45	27	8	•
C5/05/A	100	50	32	10	•
C5/06/A	125	56	40	12	•

Toll. reale sul Ø / *Real Tol. on Ø* ±0,05

Parametri Cutting data pag. 199-222

Suggerimenti Suggestion

SGROSSATURA - ROUGHING ■■■□□
SEMIFINITURA - SEMIFINISHING ■■■■■
FINITURA - FINISHING □□□□□

Lavorazioni Workings

Apertura cava Slotting	Contornatura Side milling	Copia 3D 3D copying	Assiale Axial	Rampa Ramping	Spianatura Face milling
□	■	□	□	□	■

Materiali Materials

ACCIAI STEELS	GHISE CAST IRON	ACCIAI INOSSIDABILI STAINLESS STEELS	SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM	LEGHE LEGGERE LIGHT ALLOYS	MATERIALI NON FERROSI NON FERROUS MATERIAL
■	■	◪	◪	□	□

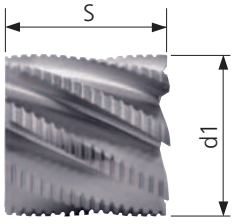
CONSIGLIATO RECOMMENDED ■
ACCETTABILE ACCEPTABLE ◪
SCONSIGLIATO NOT RECOMMENDED □

Rime

SERIE
C

FRESE FRONTALI - SEMIFINITURA

NORM	TIPO-TYPE
UNI 3903 DIN 841-1880 ISO 2586	SHORT · NORMAL · LONG · EXTRA-LONG



HSS-E Co8 · 45° · NF

C6A

- FRESE FRONTALI - SEMIFINITURA - Denti elicoidali con rompitruciolo spogliato completamente rettificato. Esecuzione per semifinitura - Spacco longitudinale
- SHELL END MILLS - Helical teeth with form relieved entirely ground chip-breaker. Semifinishing type - Longitudinal slot
- FRAISES À CYLINDRES FRONTALES- Denture hélicoïdale avec brise-copeaux dépouillé entièrement rectifié. Exécution pour demi-fini - Fente longitudinale
- WALZENSTIRNFRÄSER - Schrägschneiden mit voll eingeschliffenem Mitnehmerlängsnut. Ausführung zur Halbbearbeitung - Longitudinaler Schlitz
- FRESAS CILINDRICAS FRONTALES - Labios helicoidal con arranca de viruta completamente rectificado para semiacabado - Hendidura longitudinal
- FRESAS CILINDRICAS FRONTAIS - Ripa fina
- Фреза торцевая для получистовой обработки со стружколомом, с усиленным зубом. Шпоночный паз

CODE	d1 mm js16	s mm k16	d mm H7	Z	Co 8% €
C6/01/A	30	30	13	6	•
C6/02/A	35	35	16	6	•
C6/03/A	40	20	16	8	•
C6/04/A	40	40	16	6	•
C6/05/A	50	25	22	8	•
C6/06/A	50	50	22	8	•
C6/07/A	60	30	27	10	•
C6/08/A	60	60	27	10	•
C6/09/A	75	35	27	10	•
C6/10/A	75	75	27	10	•

Toll. reale sul Ø / *Real Tol. on Ø* ±0,05

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Suggerimenti / Suggestion

SGROSSATURA - ROUGHING ■■■□□
SEMIFINITURA - SEMIFINISHING ■■■■■
FINITURA - FINISHING □□□□□

Lavorazioni / Workings

Apertura cava Slotting	Contornatura Side milling	Copia 3D 3D copying	Assiale Axial	Rampa Ramping	Spianatura Face milling
□	■	□	□	□	■

Materiali / Materials

ACCIAI STEELS	GHISE CAST IRON	ACCIAI INOSSIDABILI STAINLESS STEELS	SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM	LEGHE LEGGERE LIGHT ALLOYS	MATERIALI NON FERROSI NON FERROUS MATERIAL
■	■	◪	◪	□	□

CONSIGLIATO RECOMMENDED ■
ACCETTABILE ACCEPTABLE ◪
SCONSIGLIATO NOT RECOMMENDED □

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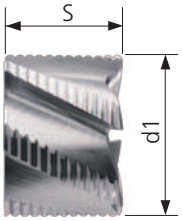
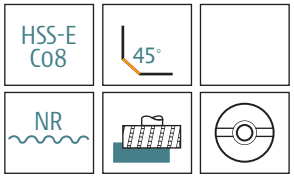
Rime

SERIE
C

FRESE FRONTALI - SGROSSATURA

NORM	TIPO-TYPE
UNI 3903 DIN 841-1880 ISO 2586	SHORT · NORMAL · LONG · EXTRA-LONG





C5B

- FRESE FRONTALI - SGROSSATURA - Denti elicoidali con rompitruciolo spogliato completamente rettificato. Esecuzione per sgrossatura - Cava trascinamento trasversale
- SHELL END MILLS - Helical teeth with form relieved entirely ground chip-breaker. Roughing type - Slot for transverse dragging
- FRAISES À CYLINDRES FRONTALES - Denture hélicoïdale avec brise-copeaux dépouillé entièrement rectifié. Exécution pour dégrossir - Fente de traînement transversal
- WALZENSTIRNFRÄSER - Schrägschneiden mit voll eingeschliffenem Mitnehmerquernut. Ausführung zum Schruppen - Querbetriebs Schlitz
- FRESAS CILINDRICAS FRONTALES - Labios helicoidal con arranca de viruta completamente rectificado para desbaste - Agujero conducimiento trasversal
- FRESAS CILINDRICAS FRONTAIS - Fresa concha com quebra-apara normal
- Фреза торцевая для черновой обработки

CODE	d1 mm js16	s mm k16	d mm H7	Z	Co 8% €
C5/01/B	40	32	16	6	•
C5/02/B	50	36	22	6	•
C5/03/B	63	40	27	8	•
C5/04/B	80	45	27	8	•
C5/05/B	100	50	32	10	•
C5/06/B	125	56	40	12	•

Toll. reale sul Ø / *Real Tol. on Ø* ±0,05

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Suggerimenti
Suggestion

SGROSSATURA - ROUGHING ■■■■■
SEMIFINITURA - SEMIFINISHING □□□□□
FINITURA - FINISHING □□□□□

Lavorazioni
Workings

Apertura cava Slotting	Contornatura Side milling	Copia 3D 3D copying	Assiale Axial	Rampa Ramping	Spianatura Face milling
■	■	□	□	□	■

Materiali
Materials

ACCIAI STEELS	GHISE CAST IRON	ACCIAI INOSSIDABILI STAINLESS STEELS	SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM	LEGHE LEGGERE LIGHT ALLOYS	MATERIALI NON FERROSI NON FERROUS MATERIAL
■	■	◪	◪	□	□

■ CONSIGLIATO RECOMMENDED
◪ ACCETTABILE ACCEPTABLE
□ SCONSIGLIATO NOT RECOMMENDED

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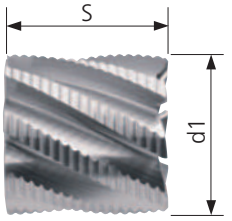
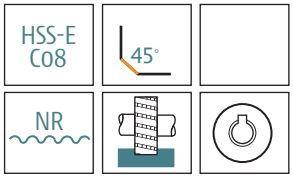
Rime

SERIE
C

FRESE FRONTALI - SGROSSATURA

NORM	TIPO-TYPE
UNI 3903	SHORT · NORMAL · LONG · EXTRA-LONG
DIN 841-1880	
ISO 2586	





CORTA

C6B

- FRESE FRONTALI - SGROSSATURA - Denti elicoidali con rompitruciolo spogliato completamente rettificato. Esecuzione per sgrossatura - Spacco longitudinale
- SHELL END MILLS - Helical teeth with form relieved entirely ground chip-breaker. Roughing type - Longitudinal slot
- FRAISES À CYLINDRES FRONTALES - Denture hélicoïdale avec brise-copeaux dépouillé entièrement rectifié. Exécution pour dégrossir - Fente longitudinale
- WALZENSTIRNFRÄSER - Schrägschneiden mit voll eingeschliffenem Mitnehmerlängsnut. Ausführung zum Schruppen - Longitudinaler Schlitz
- FRESAS CILINDRICAS FRONTALES - Labios helicoidal con arranca de viruta completamente rectificado para desbaste - Hendidura longitudinal
- FRESAS CILINDRICAS FRONTAIS - Fresa concha com quebra-apara normal
- Фреза торцевая для черновой обработки. Шпоночный паз

CODE	d1 mm js16	s mm k16	d mm H7	Z	Co 8% €
C6/01/B	30	30	13	6	•
C6/02/B	35	35	16	6	•
C6/03/B	40	20	16	8	•
C6/04/B	40	40	16	6	•
C6/05/B	50	25	22	8	•
C6/06/B	50	50	22	8	•
C6/07/B	60	30	27	10	•
C6/08/B	60	60	27	10	•
C6/09/B	75	35	27	10	•
C6/10/B	75	75	27	10	•

Toll. reale sul Ø / *Real Tol. on Ø* ±0,05

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Suggerimenti Suggestion

SGROSSATURA - ROUGHING ■■■■■
SEMIFINITURA - SEMIFINISHING □□□□□
FINITURA - FINISHING □□□□□

Lavorazioni Workings

Apertura cava Slotting	Contornatura Side milling	Copia 3D 3D copying	Assiale Axial	Rampa Ramping	Spianatura Face milling
□	■	□	□	□	■

Materiali Materials

ACCIAI STEELS	GHISE CAST IRON	ACCIAI INOSSIDABILI STAINLESS STEELS	SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM	LEGHE LEGGERE LIGHT ALLOYS	MATERIALI NON FERROSI NON FERROUS MATERIAL
■	■	◪	◪	□	□

CONSIGLIATO RECOMMENDED ■
ACCETTABILE ACCEPTABLE ◪
SCONSIGLIATO NOT RECOMMENDED □

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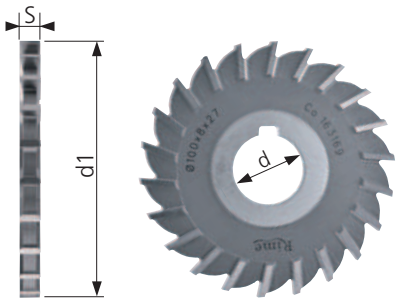
Rime

SERIE
C

FRESE A DISCO A TRE TAGLI - DENTI DRITTI



NORM	TIPO-TYPE
UNI 3905B DIN 885B ISO 2587	SHORT NORMAL LONG EXTRA-LONG

HSS-E Co5	90°	
N		

C7

- FRESE A DISCO A TRE TAGLI - Denti dritti
- SIDE AND FACE MILLING CUTTERS - Straight teeth
- FRAISSES EN DISQUE À TROIS TAILLES - Denture droite
- SCHEIBENFRÄSER - Geradeverzhant
- FRESAS A DISCO DE TRÉS LABIOS - Labios derechos
- FRESAS DE TRÊS NAVALHAS - Topo dereito
- Фреза 3-х зубая. Режущий торец. Хвостовик Weldon. Средняя серия

CODE	d1 mm js16	s mm k11	d mm H7	Z	Co 5% €
C7/01	50	4	16	20	•
C7/02	50	5	16	20	•
C7/03	50	6	16	20	•
C7/04	50	7	16	18	•
C7/05	50	8	16	18	•
C7/06	50	9	16	18	•
C7/07	50	10	16	18	•
C7/08	63	4	22	20	•
C7/09	63	5	22	20	•
C7/10	63	6	22	20	•
C7/11	63	7	22	20	•
C7/12	63	8	22	20	•
C7/13	63	9	22	20	•
C7/14	63	10	22	18	•
C7/15	63	12	22	18	•
C7/16	63	14	22	18	•
C7/17	63	16	22	18	•
C7/18	63	18	22	18	•
C7/19	63	20	22	18	•
C7/20	80	4	22	24	•
C7/20/1	80	4	27	24	•
C7/21	80	5	22	24	•
C7/21/1	80	5	27	24	•
C7/22	80	6	22	24	•
C7/22/1	80	6	27	24	•
C7/23	80	7	22	22	•
C7/23/1	80	7	27	22	•
C7/24	80	8	22	22	•
C7/24/1	80	8	27	22	•
C7/25	80	9	22	22	•
C7/25/1	80	9	27	22	•
C7/26	80	10	22	20	•
C7/26/1	80	10	27	20	•
C7/27	80	12	22	20	•
C7/27/1	80	12	27	20	•
C7/28	80	14	22	20	•
C7/28/1	80	14	27	20	•
C7/29	80	16	22	20	•
C7/29/1	80	16	27	20	•
C7/30	80	18	22	20	•
C7/30/1	80	18	27	20	•
C7/31	80	20	22	20	•
C7/31/1	80	20	27	20	•
C7/32	100	4	27	26	•

Toll. reale sul Ø *Real Tol. on Ø* +0,05 -0

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Suggerimenti Suggestion

SGROSSATURA - ROUGHING ■■■■□
SEMIFINITURA - SEMIFINISHING ■■■■□
FINITURA - FINISHING ■■■■□

Lavorazioni Workings

Apertura cava Slotting	Contornatura Side milling	Copia 3D 3D copying	Assiale Axial	Rampa Ramping
■	□	□	□	□

Materiali Materials

ACCIAI STEELS	GHISE CAST IRON	ACCIAI INOSSIDABILI STAINLESS STEELS	SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM	LEGHE LEGGERE LIGHT ALLOYS	MATERIALI NON FERROSI NON FERROUS MATERIAL
■	■	◪	◪	◪	◪

CONSIGLIATO RECOMMENDED ■
ACCETTABILE ACCEPTABLE ◪
SCONSIGLIATO NOT RECOMMENDED □

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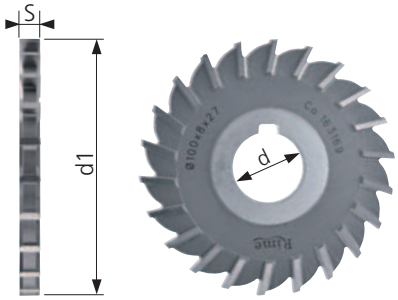
Rime

SERIE
C

FRESE A DISCO A TRE TAGLI - DENTI DRITTI



NORM	TIPO-TYPE
UNI 3905B DIN 885B ISO 2587	SHORT NORMAL LONG EXTRA-LONG

HSS-E Co5 | 90° | N

C7

- FRESE A DISCO A TRE TAGLI - Denti diritti
- SIDE AND FACE MILLING CUTTERS - Straight teeth
- FRAISSES EN DISQUE À TROIS TAILLES - Denture droite
- SCHEIBENFRÄSER - Geradeverzhant
- FRESAS A DISCO DE TRÉS LABIOS - Labios derechos
- FRESAS DE TRÊS NAVALHAS - Topo dereito
- Фреза 3-х зубая. Режущий торец. Хвостовик Weldon. Средняя серия

CODE	d1 mm js16	s mm k11	d mm H7	Z	Co 5% €
C7/32/1	100	4	32	26	•
C7/33	100	5	27	26	•
C7/33/1	100	5	32	26	•
C7/34	100	6	27	24	•
C7/34/1	100	6	32	24	•
C7/35	100	7	27	24	•
C7/35/1	100	7	32	24	•
C7/36	100	8	27	22	•
C7/36/1	100	8	32	22	•
C7/37	100	9	27	22	•
C7/37/1	100	9	32	22	•
C7/38	100	10	27	22	•
C7/38/1	100	10	32	22	•
C7/39	100	12	27	22	•
C7/39/1	100	12	32	22	•
C7/40	100	14	27	22	•
C7/40/1	100	14	32	22	•
C7/41	100	15	27	22	•
C7/41/1	100	15	32	22	•
C7/42	100	16	27	22	•
C7/42/1	100	16	32	22	•
C7/43	100	18	27	22	•
C7/43/1	100	18	32	22	•
C7/44	100	20	27	20	•
C7/44/1	100	20	32	20	•
C7/45	100	22	27	20	•
C7/45/1	100	22	32	20	•
C7/46	100	25	27	20	•
C7/46/1	100	25	32	20	•
C7/47	125	5	32	30	•
C7/48	125	6	32	30	•
C7/49	125	8	32	28	•
C7/50	125	10	32	28	•
C7/51	125	12	32	28	•
C7/52	125	14	32	26	•
C7/53	125	16	32	26	•
C7/54	125	18	32	26	•
C7/55	125	20	32	26	•

Toll. reale sul Ø / *Real Tol. on Ø* +0,05 -0

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Suggerimenti Suggestion

SGROSSATURA - ROUGHING
SEMIFINITURA - SEMIFINISHING
FINITURA - FINISHING

Lavorazioni Workings

Apertura cava Slotting ■ | Contornatura Side milling □ | Copia 3D 3D copying □ | Assiale Axial □ | Rampa Ramping □

Materiali Materials

ACCIAI STEELS	GHISE CAST IRON	ACCIAI INOSSIDABILI STAINLESS STEELS	SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM	LEGHE LEGGERE LIGHT ALLOYS	MATERIALI NON FERROSI NON FERROUS MATERIAL
■	■	◪	◪	◪	◪

CONSIGLIATO RECOMMENDED ■
ACCETTABILE ACCEPTABLE ◪
SCONSIGLIATO NOT RECOMMENDED □

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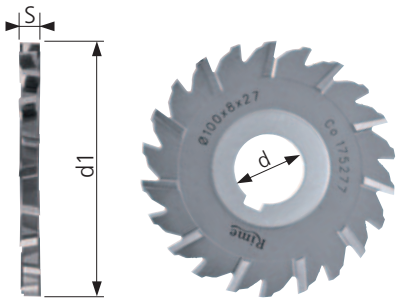
Rime

SERIE
C

FRESE A DISCO A TRE TAGLI - DENTI ALTERNATI



NORM	TIPO-TYPE	
UNI 3905A DIN 885A ISO 2587	SHORT NORMAL LONG EXTRA-LONG	

HSS-E Co5	90°	
N		

C8

- FRESE A DISCO A TRE TAGLI - Denti alternati
- SIDE AND FACE MILLING CUTTERS - Staggered teeth
- FRAISSES EN DISQUE À TROIS TAILLES - Denture alternée
- SCHEIBENFRÄSER - Kreuzverzahnt
- FRESAS A DISCO DE TRÉS LABIOS - Labios alternados
- FRESAS DE TRÊS NAVALHAS - Topo alternado
- Фреза дисковая с тремя режущими гранями с разнонаправленными зубьями

CODE	d1 mm js16	s mm k11	d mm H7	Z	Co 5% €
C8/01	50	4	16	18	•
C8/02	50	5	16	18	•
C8/03	50	6	16	18	•
C8/04	50	7	16	18	•
C8/05	50	8	16	18	•
C8/06	50	9	16	16	•
C8/07	50	10	16	16	•
C8/08	63	4	22	22	•
C8/09	63	5	22	20	•
C8/10	63	6	22	20	•
C8/11	63	7	22	20	•
C8/12	63	8	22	20	•
C8/13	63	9	22	18	•
C8/14	63	10	22	18	•
C8/15	63	12	22	18	•
C8/16	63	14	22	18	•
C8/17	63	16	22	16	•
C8/18	63	18	22	16	•
C8/19	63	20	22	14	•
C8/20	80	4	22	24	•
C8/20/1	80	4	27	24	•
C8/21	80	5	22	22	•
C8/21/1	80	5	27	22	•
C8/22	80	6	22	22	•
C8/22/1	80	6	27	22	•
C8/23	80	7	22	20	•
C8/23/1	80	7	27	20	•
C8/24	80	8	22	20	•
C8/24/1	80	8	27	20	•
C8/25	80	9	22	20	•
C8/25/1	80	9	27	20	•
C8/26	80	10	22	18	•
C8/26/1	80	10	27	18	•
C8/27	80	12	22	18	•
C8/27/1	80	12	27	18	•
C8/28	80	14	22	18	•
C8/28/1	80	14	27	18	•
C8/29	80	16	22	16	•
C8/29/1	80	16	27	16	•
C8/30	80	18	22	16	•
C8/30/1	80	18	27	16	•
C8/31	80	20	22	16	•
C8/31/1	80	20	27	16	•
C8/32	100	4	27	26	•
C8/32/1	100	4	32	26	•
C8/33	100	5	27	26	•
C8/33/1	100	5	32	26	•
C8/34	100	6	27	24	•
C8/34/1	100	6	32	24	•
C8/35	100	7	27	24	•
C8/35/1	100	7	32	24	•
C8/36	100	8	27	22	•
C8/36/1	100	8	32	22	•
C8/37	100	9	27	22	•
C8/37/1	100	9	32	22	•

Toll. reale sul Ø
Real Tol. on Ø +0,05 -0

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Suggerimenti
Suggestion

SGROSSATURA - ROUGHING
SEMIFINITURA - SEMIFINISHING
FINITURA - FINISHING

Lavorazioni
Workings

Apertura cava Slotting	Contornatura Side milling	Copia 3D 3D copying	Assiale Axial	Rampa Ramping
■	□	□	□	□

Materiali
Materials

ACCIAI STEELS	GHISE CAST IRON	ACCIAI INOSSIDABILI STAINLESS STEELS	SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM	LEGHE LEGGERE LIGHT ALLOYS	MATERIALI NON FERROSI NON FERROUS MATERIAL
■	■	◪	◪	◪	◪

CONSIGLIATO RECOMMENDED ■
ACCETTABILE ACCEPTABLE ◪
SCONSIGLIATO NOT RECOMMENDED □

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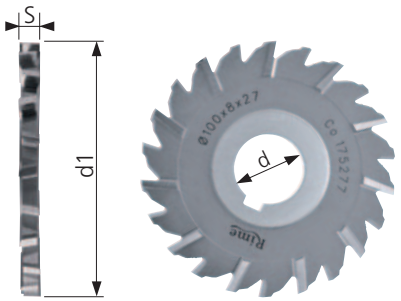
Rime

SERIE
C

FRESE A DISCO A TRE TAGLI - DENTI ALTERNATI

NORM	TIPO-TYPE
UNI 3905A DIN 885A ISO 2587	SHORT NORMAL LONG EXTRA-LONG



HSS-E Co5 | 90° | N

C8

- FRESE A DISCO A TRE TAGLI - Denti alternati
- SIDE AND FACE MILLING CUTTERS - Staggered teeth
- FRAISSES EN DISQUE À TROIS TAILLES - Denture alternée
- SCHEIBENFRÄSER - Kreuzverzahnt
- FRESAS A DISCO DE TRÉS LABIOS - Labios alternados
- FRESAS DE TRÊS NAVALHAS - Topo alternado
- Фреза дисковая с тремя режущими гранями с разнонаправленными зубьями

CODE	d1 mm js16	s mm k11	d mm H7	Z	Co 5% €
C8/38	100	10	27	22	•
C8/38/1	100	10	32	22	•
C8/39	100	12	27	20	•
C8/39/1	100	12	32	20	•
C8/40	100	14	27	18	•
C8/40/1	100	14	32	18	•
C8/41	100	15	27	18	•
C8/41/1	100	15	32	18	•
C8/42	100	16	27	18	•
C8/42/1	100	16	32	18	•
C8/43	100	18	27	18	•
C8/43/1	100	18	32	18	•
C8/44	100	20	27	18	•
C8/44/1	100	20	32	18	•
C8/45	100	22	27	18	•
C8/45/1	100	22	32	18	•
C8/46	100	25	27	18	•
C8/46/1	100	25	32	18	•
C8/47	125	5	32	30	•
C8/48	125	6	32	30	•
C8/48/1	125	7	32	28	•
C8/49	125	8	32	28	•
C8/49/1	125	9	32	24	•
C8/50	125	10	32	24	•
C8/51	125	12	32	22	•
C8/52	125	14	32	22	•
C8/53	125	16	32	20	•
C8/54	125	18	32	20	•
C8/55	125	20	32	20	•
C8/56	125	22	32	20	•
C8/57	125	25	32	18	•
C8/58	160	6	32	30	•
C8/59	160	8	32	28	•
C8/60	160	10	32	26	•
C8/61	160	12	32	26	•
C8/62	160	14	32	24	•
C8/63	160	16	32	24	•
C8/64	160	18	32	22	•
C8/65	160	20	32	22	•
C8/66	160	22	32	22	•
C8/67	160	25	32	22	•
C8/68	200	8	40	34	•
C8/69	200	10	40	32	•
C8/70	200	12	40	30	•
C8/71	200	14	40	30	•
C8/72	200	16	40	28	•
C8/73	200	18	40	28	•
C8/74	200	20	40	26	•
C8/75	200	22	40	26	•
C8/76	200	25	40	24	•
C8/77	200	28	40	24	•
C8/78	200	32	40	22	•
C8/79	250	20	50	34	•
C8/80	250	30	50	26	•

Toll. reale sul Ø / *Real Tol. on Ø* +0,05 -0

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Suggerimenti Suggestion

SGROSSATURA - ROUGHING ■■■■□
SEMIFINITURA - SEMIFINISHING ■■■■□
FINITURA - FINISHING ■■■■□

Lavorazioni Workings

Apertura cava Slotting	Contornatura Side milling	Copia 3D 3D copying	Assiale Axial	Rampa Ramping
■	□	□	□	□

Materiali Materials

ACCIAI STEELS	GHISE CAST IRON	ACCIAI INOSSIDABILI STAINLESS STEELS	SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM	LEGHE LEGGERE LIGHT ALLOYS	MATERIALI NON FERROSI NON FERROUS MATERIAL
■	■	◪	◪	◪	◪

CONSIGLIATO RECOMMENDED ■
ACCETTABILE ACCEPTABLE ◪
SCONSIGLIATO NOT RECOMMENDED □

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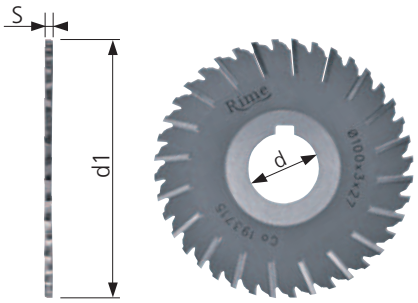
Rime

SERIE
C

SEGHE CIRCOLARI A TRE TAGLI - DENTI ALTERNATI

NORM | TIPO-TYPE



HSS-E C05 | 90° | N

C9

- SEGHE CIRCOLARI A TRE TAGLI - Denti elicoidali alternati
- THREE-FLUTED CIRCULAR SAWS - Staggered teeth
- SCIES CIRCULAIRES TROIS TAILLES - Denture alternée
- KREISSÄGEN - Schräg-Kreuzverzahnt
- SIERRA CIRCULAR DE TRÉS LABIOS - Labios helicoidales alternados
- SERRA CIRCULAR DE TRÊS NAVALHAS - Navalhas helicoidales alternada
- Фреза дисковая с тремя режущими гранями с разнонаправленными зубьями

CODE	d1 mm js16	s mm k11	d mm H7	Z	Co 5% €
C9/01	63	1.6	22	32	•
C9/02	63	2	22	32	•
C9/03	63	2.5	22	32	•
C9/04	63	3	22	28	•
C9/05	63	3.5	22	28	•
C9/06	80	2	22	32	•
C9/07	80	2.5	22	32	•
C9/08	80	3	22	32	•
C9/09	80	3.5	22	32	•
C9/10	100	2	27	40	•
C9/11	100	2.5	27	40	•
C9/12	100	3	27	40	•
C9/13	100	3.5	27	40	•
C9/14	125	2	32	44	•
C9/15	125	2.5	32	44	•
C9/16	125	3	32	44	•
C9/17	125	3.5	32	40	•
C9/18	125	4	32	40	•
C9/19	160	3	32	50	•
C9/19/1	160	3.5	32	50	•
C9/20	160	4	32	50	•
C9/21	160	5	32	50	•

Toll. reale sul Ø / *Real Tol. on Ø* +0,05 -0

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Suggerimenti Suggestion

SGROSSATURA - ROUGHING
SEMIFINITURA - SEMIFINISHING
FINITURA - FINISHING

Lavorazioni Workings

Apertura cava Slotting ■ | Contornatura Side milling □ | Copia 3D 3D copying □ | Assiale Axial □ | Rampa Ramping □

Materiali Materials

ACCIAI STEELS	GHISE CAST IRON	ACCIAI INOSSIDABILI STAINLESS STEELS	SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM	LEGHE LEGGERE LIGHT ALLOYS	MATERIALI NON FERROSI NON FERROUS MATERIAL
■	■	◪	◪	□	□

■ CONSIGLIATO RECOMMENDED
◪ ACCETTABILE ACCEPTABLE
□ SCONSIGLIATO NOT RECOMMENDED

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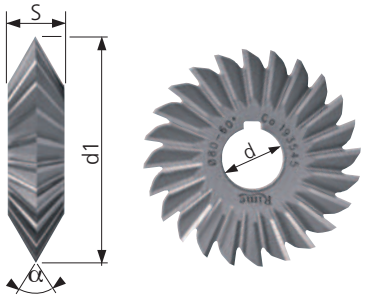
Rime

SERIE
C

FRESE AD ANGOLO PRISMATICHE



NORM	TIPO-TYPE
UNI 3907 DIN 847 ISO 6108	SHORT NORMAL LONG EXTRA-LONG

HSS-E Co5	45°-60°-90°	
N		

C13

- FRESE AD ANGOLO PRISMATICHE
- DOUBLE EQUAL-ANGLE CUTTERS
- FRAISES D'ANGLE PRISMATIQUES
- PRISMENFRÄSER
- FRESAS DE ANGULO PRISMATICO
- FRESAS DE ANGULO PRISMATICO
- Фреза дисковая угловая

CODE	d1 mm js16	α 0°+1°	s mm k11	d mm H7	Z	Co 5% €
C13/01	56		10	16	24	•
C13/02	63	45°	12	22	22	•
C13/03	80		16	22	26	•
C13/04	100		18	27	30	•
C13/05	56		12	16	22	•
C13/06	63	60°	16	22	20	•
C13/07	80		20	22	24	•
C13/08	100		25	27	26	•
C13/09	56		14	16	22	•
C13/10	63	90°	18	22	20	•
C13/11	80		22	22	22	•
C13/12	100		28	27	24	•

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Suggerimenti
Suggestion

SGROSSATURA - ROUGHING
SEMIFINITURA - SEMIFINISHING
FINITURA - FINISHING

Lavorazioni
Workings

Apertura cava Slotting	Contornatura Side milling	Copia 3D 3D copying	Assiale Axial	Rampa Ramping	Cava a "V" "V" Slotting
☐	☐	☐	☐	☐	■

Materiali
Materials

ACCIAI STEELS	GHISE CAST IRON	ACCIAI INOSSIDABILI STAINLESS STEELS	SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM	LEGHE LEGGERE LIGHT ALLOYS	MATERIALI NON FERROSI NON FERROUS MATERIAL
■	■	◪	◪	◪	◪

CONSIGLIATO RECOMMENDED ■
ACCETTABILE ACCEPTABLE ◪
SCONSIGLIATO NOT RECOMMENDED ☐

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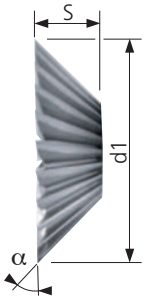
Rime

SERIE
C

FRESE FRONTALI AD ANGOLO



NORM	TIPO-TYPE
UNI 3908 DIN 842A	SHORT NORMAL LONG EXTRA-LONG

HSS-E Co5 | 45°-50°-60° | N

C14

- FRESE FRONTALI AD ANGOLO
- SINGLE ANGLE CUTTERS
- FRAISES FRONTALES D'ANGLE
- WINKELSTIRNFRÄSER
- FRESAS FRONTALES D'ANGULO
- FRESAS DE ANGULO FRONTAIS
- Фреза торцевая с обратным конусом

CODE	d1 mm js16	α ±25′	s mm k16	d mm H7	Z	Co 5% €
C14/01	40		12	10	18	•
C14/02	50		15	13	20	•
C14/03	63	45°	18	16	20	•
C14/04	80		23	22	24	•
C14/05	100		30	27	24	•
C14/08	40		13	10	16	•
C14/09	50		16	13	18	•
C14/10	63	50°	20	16	20	•
C14/11	80		25	22	22	•
C14/12	100		32	27	26	•
C14/15	40		13	10	18	•
C14/16	50		16	13	18	•
C14/17	63	60°	20	16	18	•
C14/18	80		25	22	20	•
C14/19	100		32	27	22	•

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Suggerimenti
Suggestion

SGROSSATURA - ROUGHING ■■■■□
SEMIFINITURA - SEMIFINISHING ■■■■□
FINITURA - FINISHING ■■■■□

Lavorazioni
Workings

Apertura cava Slotting	Contornatura Side milling	Copia 3D 3D copying	Assiale Axial	Rampa Ramping	Cava ad angolo Angle slotting
□	□	□	□	□	■

Materiali
Materials

ACCIAI STEELS	GHISE CAST IRON	ACCIAI INOSSIDABILI STAINLESS STEELS	SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM	LEGHE LEGGERE LIGHT ALLOYS	MATERIALI NON FERROSI NON FERROUS MATERIAL
■	■	◪	◪	◪	◪

CONSIGLIATO RECOMMENDED ■
ACCETTABILE ACCEPTABLE ◪
SCONSIGLIATO NOT RECOMMENDED □

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SERIE E

Frese per sgrossatura

Roughing end mills

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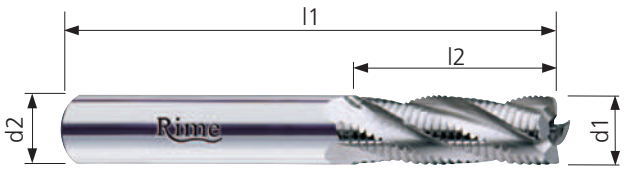
Rime

SERIE
E

FRESE PER SGROSSATURA

NORM | TIPO-TYPE | Z3÷Z4



HSS-E Co8 | 45° | NR | ≃30° | DIN 1835 A

NORMALE

E0

- FRESE PER SGROSSATURA - Denti elicoidali con rompitruciolo spogliato completamente rettificato - Codolo cilindrico
- ROUGHING END MILLS - Helical teeth with form relieved entirely ground chip-breaker - Straight shank
- FRAISES FRONTALES ÉBAUCHE - Denture hélicoïdale avec brise-copeaux profil rond - Queue cylindrique
- SCHAFTFRÄSER - Schrägschneiden mit voll eingeschliffenem Spannbrecher
- FRESAS CILINDRICAS FRONTALES PARA DESBASTE - Labios helicoidal con arranca de viruta completamente rectificado - Mango cilindrico
- FRESAS DE DESBASTE FRONTAL - Fresa cilindrica sem corte ao centro com quebra-apara - Encabadouro cilindrico
- Фреза концевая для черновой обработки. Цилиндрический хвостовик. Средняя серия

CODE	d1 mm js14	l2 mm	l1 mm	d2 mm h6	Z	Co 8% €
E0/01	6	16	60	6	3	•
E0/02	8	22	64	10	4	•
E0/03	10	28	70	10	4	•
E0/04	12	32	80	12	4	•
E0/05	14	32	80	12	4	•
E0/06	15	36	90	16	4	•
E0/07	16	36	90	16	4	•
E0/08	18	40	100	16	4	•
E0/09	20	45	110	20	4	•
E0/10	22	45	110	20	4	•

THREADED DIN 1835 D — su richiesta / on request

Toll. reale sul Ø / *Real Tol. on Ø* ±0,05

Ulteriori diametri a richiesta
Other diameters on demand

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Suggerimenti Suggestion

SGROSSATURA - ROUGHING ■■■■■
SEMIFINITURA - SEMIFINISHING □□□□□
FINITURA - FINISHING □□□□□

Lavorazioni Workings

Apertura cava Slotting	Contornatura Side milling	Copia 3D 3D copying	Assiale Axial	Rampa Ramping
■	■	□	□	□

Materiali Materials

ACCIAI STEELS	GHISE CAST IRON	ACCIAI INOSSIDABILI STAINLESS STEELS	SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM	LEGHE LEGGERE LIGHT ALLOYS	MATERIALI NON FERROSI NON FERROUS MATERIAL
■	■	◪	◪	□	□

CONSIGLIATO RECOMMENDED ■
ACCETTABILE ACCEPTABLE ◪
SCONSIGLIATO NOT RECOMMENDED □

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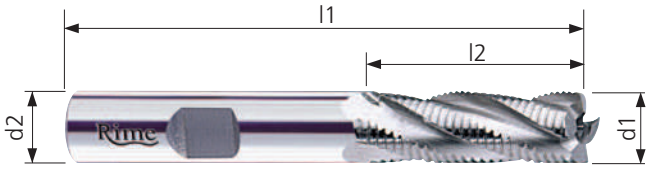
Rime

SERIE
E

FRESE PER SGROSSATURA

NORM | TIPO-TYPE | Z3÷Z5



HSS-E Co8 | 45° | NR | ≃30° | DIN 1835 B

NORMALE

E2

- FRESE PER SGROSSATURA - Denti elicoidali con rompitruciolo spogliato completamente rettificato - Attacco Weldon
- ROUGHING END MILLS - Helical teeth with form relieved entirely ground chip-breaker - Weldon shank
- FRAISES FRONTALES ÉBAUCHE - Denture hélicoïdale avec brise-copeaux profil rond - Queue cylindrique Weldon
- SCHAFTFRÄSER - Schrägschneiden mit voll eingeschliffenem Spannbrecher - Weldon Spannfläche
- FRESAS CILINDRICAS FRONTALES PARA DESBASTE - Labios helicoidal con arranca de viruta completamente rectificado - Weldon
- FRESAS FRONTAIS PARA DESBASTE - Fresa sem corte ao centro com quebra-apara - Encabadouro Weldon
- Фреза концевая для черновой обработки. Хвостовик Weldon. Средняя серия

CODE	d1 mm js14	l2 mm	l1 mm	d2 mm h6	Z	Co 8% €
E2/01	6	16	60	6	3	•
E2/02	8	22	64	10	4	•
E2/03	10	28	70	10	4	•
E2/04	12	32	80	12	4	•
E2/05	14	32	80	12	4	•
E2/06	15	36	90	16	4	•
E2/07	16	36	90	16	4	•
E2/08	18	40	100	16	4	•
E2/09	20	45	110	20	4	•
E2/10	22	45	110	20	4	•
E2/11	24	45	120	25	5	•
E2/12	25	50	125	25	5	•
E2/13	26	50	125	25	5	•
E2/14	28	50	125	25	5	•
E2/15	30	63	135	25	5	•
E2/16	32	63	145	32	5	•

Toll. reale sul Ø / *Real Tol. on Ø* ±0,05

Ulteriori diametri a richiesta / *Other diameters on demand*

Parametri Cutting data pag. 199-222

Suggerimenti Suggestion

SGROSSATURA - ROUGHING ■■■■■
SEMIFINITURA - SEMIFINISHING □□□□□
FINITURA - FINISHING □□□□□

Lavorazioni Workings

Apertura cava Slotting	Contornatura Side milling	Copia 3D 3D copying	Assiale Axial	Rampa Ramping
■	■	□	□	□

Materiali Materials

ACCIAI STEELS	GHISE CAST IRON	ACCIAI INOSSIDABILI STAINLESS STEELS	SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM	LEGHE LEGGERE LIGHT ALLOYS	MATERIALI NON FERROSI NON FERROUS MATERIAL
■	■	◪	◪	□	□

CONSIGLIATO RECOMMENDED ■
ACCETTABILE ACCEPTABLE ◪
SCONSIGLIATO NOT RECOMMENDED □

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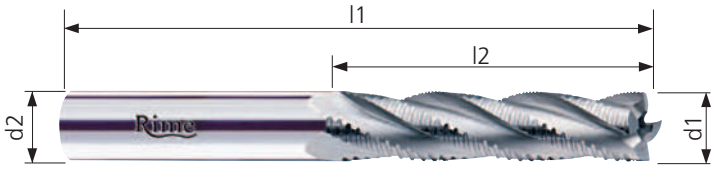
Rime

SERIE
E

FRESE PER SGROSSATURA

NORM | TIPO-TYPE | Z4



HSS-E Co8 | 45° | NR | ≃30° | DIN 1835 A

LUNGA

E4

- FRESE PER SGROSSATURA - Denti elicoidali con rompitruciolo spogliato completamente rettificato - Codolo cilindrico
- ROUGHING END MILLS - Helical teeth with form relieved entirely ground chip-breaker - Straight shank
- FRAISES FRONTALES ÉBAUCHE - Denture hélicoïdale avec brise-copeaux profil rond - Queue cylindrique
- SCHAFTFRÄSER - Schrägschneiden mit voll eingeschliffenem Spannbrecher - Zylinderschaft
- FRESAS CILINDRICAS FRONTALES PARA DESBASTE - Labios helicoidal con arranca de viruta completamente rectificado - Mango cilindrico
- FRESAS CILINDRICAS FRONTAIS PARA DESBASTE - Fresa sem corte ao centro com quebra-apara - Encabadouro cilindrico
- Фреза концевая для черновой обработки. Цилиндрический хвостовик. Удлиненная серия

CODE	d1 mm js14	l2 mm	l1 mm	d2 mm h6	Z	Co 8% €
E4/01	8	35	85	10	4	•
E4/02	10	42	90	10	4	•
E4/03	12	48	95	12	4	•
E4/04	14	48	100	12	4	•
E4/05	15	54	104	16	4	•
E4/06	16	54	104	16	4	•
E4/07	18	60	120	16	4	•
E4/08	20	62	128	20	4	•
E4/09	22	64	130	20	4	•

THREADED DIN 1835 D — su richiesta / on request

Toll. reale sul Ø / *Real Tol. on Ø* ±0,05

Ulteriori diametri a richiesta
Other diameters on demand

Parametri
Cutting data
pag. 199-222

Suggerimenti Suggestion

SGROSSATURA - ROUGHING ■■■■■
SEMIFINITURA - SEMIFINISHING □□□□□
FINITURA - FINISHING □□□□□

Lavorazioni Workings

Apertura cava Slotting	Contornatura Side milling	Copia 3D 3D copying	Assiale Axial	Rampa Ramping
■	■	□	□	□

Materiali Materials

ACCIAI STEELS	GHISE CAST IRON	ACCIAI INOSSIDABILI STAINLESS STEELS	SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM	LEGHE LEGGERE LIGHT ALLOYS	MATERIALI NON FERROSI NON FERROUS MATERIAL
■	■	◪	◪	□	□

CONSIGLIATO RECOMMENDED ■
ACCETTABILE ACCEPTABLE ◪
SCONSIGLIATO NOT RECOMMENDED □

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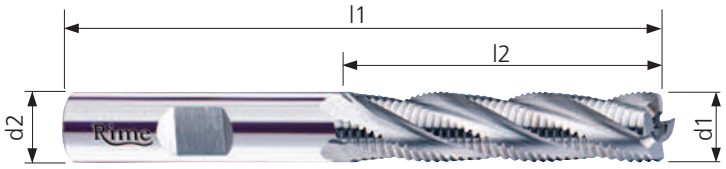
Rime

SERIE
E

FRESE PER SGROSSATURA

NORM | TIPO-TYPE | Z4÷Z5



HSS-E Co8 | 45° | NR | ≃30° | DIN 1835 B

LUNGA

E6

- FRESE PER SGROSSATURA - Denti elicoidali con rompitruciolo spogliato completamente rettificato - Attacco Weldon
- ROUGHING END MILLS - Helical teeth with form relieved entirely ground chip-breaker - Weldon shank
- FRAISES FRONTALES ÉBAUCHE - Denture hélicoïdale avec brise-copeaux profil rond - Queue cylindrique Weldon
- SCHAFTFRÄSER - Schrägschneiden mit voll eingeschliffenem Spannbrecher - Weldon Spannfläche
- FRESAS CILINDRICAS FRONTALES PARA DESBASTE - Labios helicoidal con arranca de viruta completamente rectificado - Weldon
- FRESAS CILINDRICAS FRONTAIS PARA DESBASTE - Fresa sem corte ao centro com quebra-apara - Weldon
- Фреза концевая для черновой обработки. Хвостовик Weldon. Удлиненная серия

CODE	d1 mm js14	l2 mm	l1 mm	d2 mm h6	Z	Co 8% €
E6/01	8	35	85	10	4	•
E6/02	10	42	90	10	4	•
E6/03	12	48	95	12	4	•
E6/04	14	48	100	12	4	•
E6/05	15	54	104	16	4	•
E6/06	16	54	104	16	4	•
E6/07	18	60	120	16	4	•
E6/08	20	62	128	20	4	•
E6/09	22	64	130	20	4	•
E6/10	24	66	135	25	5	•
E6/11	25	70	145	25	5	•
E6/12	28	70	145	25	5	•
E6/13	30	80	155	25	5	•
E6/14	32	80	160	32	5	•

Toll. reale sul Ø *Real Tol. on Ø* ±0,05

Ulteriori diametri a richiesta
Other diameters on demand

Parametri Cutting data pag. 199-222

Suggerimenti Suggestion

SGROSSATURA - ROUGHING ■■■■■
SEMIFINITURA - SEMIFINISHING □□□□□
FINITURA - FINISHING □□□□□

Lavorazioni Workings

Apertura cava Slotting	Contornatura Side milling	Copia 3D 3D copying	Assiale Axial	Rampa Ramping
■	■	□	□	□

Materiali Materials

ACCIAI STEELS	GHISE CAST IRON	ACCIAI INOSSIDABILI STAINLESS STEELS	SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM	LEGHE LEGGERE LIGHT ALLOYS	MATERIALI NON FERROSI NON FERROUS MATERIAL
■	■	◪	◪	□	□

CONSIGLIATO RECOMMENDED ■
ACCETTABILE ACCEPTABLE ◪
SCONSIGLIATO NOT RECOMMENDED □

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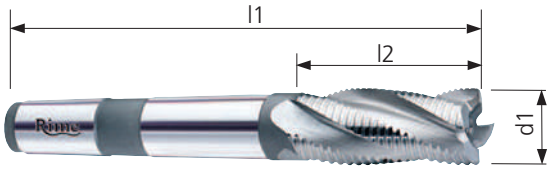
Rime

SERIE
E

FRESE PER SGROSSATURA

NORM | TIPO-TYPE | Z4÷Z7



HSS-E Co8 | 45° | NR | ≃30° | DIN 228 A

NORMALE

E7

- FRESE PER SGROSSATURA - Denti elicoidali con rompitruciolo spogliato completamente rettificato - Codolo conico Morse con foro filettato
- ROUGHING END MILLS - Helical teeth with form relieved entirely ground chip-breaker - Morse taper shank
- FRAISES FRONTALES ÉBAUCHE - Denture hélicoïdale avec brise-copeaux profil rond - Queue au cône Morse à trou fileté
- SCHAFTFRÄSER - Schrägschneiden mit voll eingeschliffenem Spannbrecher - Morsekegelschaft und Anzugsgewinde
- FRESAS CILINDRICAS FRONTALES PARA DESBASTE - Labios helicoidal con arranca de viruta completamente rectificado - Mango conico Morse con taladro roscado
- FRESAS CILINDRICAS FRONTAIS PARA DESBASTE - Fresa sem corte ao centro com quebra-apara - Encabadouro cone Morse con taladro roscado
- Фреза концевая для черновой обработки. Хвостовик конус Морзе с резьбой. Средняя серия

CODE	d1 mm js14	l2 mm	l1 mm	CM-MK	Z	Co 8% €
E7/01	16	36	115	2	4	•
E7/02	18	40	120	2	4	•
E7/03	20	45	125	2	4	•
E7/04	22	45	125	2	4	•
E7/05	24	50	150	3	5	•
E7/06	25	50	150	3	5	•
E7/07	26	56	155	3	5	•
E7/08	28	56	155	3	5	•
E7/09	30	63	165	3	5	•
E7/10	32	63	188	4	5	•
E7/11	34	70	195	4	5	•
E7/12	35	70	195	4	6	•
E7/13	36	70	195	4	6	•
E7/14	38	70	195	4	6	•
E7/15	40	70	195	4	6	•
E7/16	45	80	205	4	6	•
E7/17	50	90	215	4	7	•
E7/18	50	90	250	5	7	•

Toll. reale sul Ø / *Real Tol. on Ø* ±0,05

Parametri Cutting data pag. 199-222

Suggerimenti Suggestion

SGROSSATURA - ROUGHING ■■■■■
SEMIFINITURA - SEMIFINISHING □□□□□
FINITURA - FINISHING □□□□□

Lavorazioni Workings

Apertura cava Slotting	Contornatura Side milling	Copia 3D 3D copying	Assiale Axial	Rampa Ramping
■	■	□	□	□

Materiali Materials

ACCIAI STEELS	GHISE CAST IRON	ACCIAI INOSSIDABILI STAINLESS STEELS	SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM	LEGHE LEGGERE LIGHT ALLOYS	MATERIALI NON FERROSI NON FERROUS MATERIAL
■	■	◪	◪	□	□

CONSIGLIATO RECOMMENDED ■
ACCETTABILE ACCEPTABLE ◪
SCONSIGLIATO NOT RECOMMENDED □

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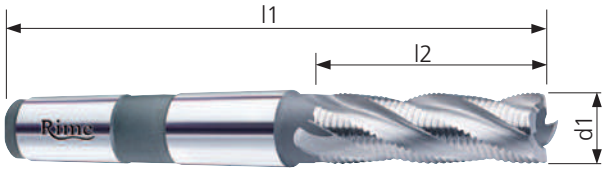
Rime

SERIE
E

FRESE PER SGROSSATURA

NORM | TIPO-TYPE | Z4÷Z7



HSS-E Co8 | 45° | NR | ≃30° | DIN 228 A

LUNGA

E8

- FRESE PER SGROSSATURA - Denti elicoidali con rompitruciolo spogliato completamente rettificato - Codolo conico Morse con foro filettato
- ROUGHING END MILLS - Helical teeth with form relieved entirely ground chip-breaker - Morse taper shank
- FRAISES FRONTALES ÉBAUCHE - Denture hélicoïdale avec brise-copeaux profil rond - Queue au cône Morse à trou fileté
- SCHAFTFRÄSER - Schrägschneiden mit voll eingeschliffenem Spannbrecher - Morsekegelschaft und Anzugsgewinde
- FRESAS CILINDRICAS FRONTALES PARA DESBASTE - Labios helicoidal con arranca de viruta completamente rectificado - Mango conico Morse con taladro roscado
- FRESAS CILINDRICAS FRONTAIS PARA DESBASTE - Fresa sem corte ao centro com quebra-apara - Encabadouro cone Morse
- Фреза концевая для черновой обработки. Хвостовик конус Морзе с резьбой. Удлиненная серия

CODE	d1 mm js14	l2 mm	l1 mm	CM-MK	Z	Co 8% €
E8/01	16	55	140	2	4	•
E8/02	18	60	145	2	4	•
E8/03	20	65	148	2	4	•
E8/04	22	65	166	3	4	•
E8/05	24	70	171	3	5	•
E8/06	25	70	171	3	5	•
E8/07	26	70	176	3	5	•
E8/08	28	80	186	3	5	•
E8/09	30	85	210	4	5	•
E8/10	32	90	215	4	5	•
E8/11	34	90	215	4	5	•
E8/12	35	90	215	4	6	•
E8/13	36	90	215	4	6	•
E8/14	38	95	220	4	6	•
E8/15	40	95	220	4	6	•
E8/16	45	100	225	4	6	•
E8/17	50	110	235	4	7	•
E8/18	50	120	275	5	7	•

Toll. reale sul Ø / *Real Tol. on Ø* ±0,05

Parametri
Cutting data
pag. 199-222

Suggerimenti Suggestion

SGROSSATURA - ROUGHING ■■■■■
SEMIFINITURA - SEMIFINISHING □□□□□
FINITURA - FINISHING □□□□□

Lavorazioni Workings

Apertura cava Slotting	Contornatura Side milling	Copia 3D 3D copying	Assiale Axial	Rampa Ramping
■	■	□	□	□

Materiali Materials

ACCIAI STEELS	GHISE CAST IRON	ACCIAI INOSSIDABILI STAINLESS STEELS	SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM	LEGHE LEGGERE LIGHT ALLOYS	MATERIALI NON FERROSI NON FERROUS MATERIAL
■	■	◪	◪	□	□

CONSIGLIATO RECOMMENDED ■
ACCETTABILE ACCEPTABLE ◪
SCONSIGLIATO NOT RECOMMENDED □

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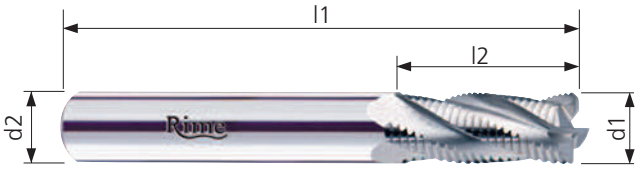
Rime

SERIE
E

FRESE PER SGROSSATURA

NORM	TIPO-TYPE	Z3÷Z4
UNI 8244 DIN 844A ISO 1641/I	SHORT · NORMAL · LONG · EXTRA-LONG	



HSS-E Co8 · 45° · NR · ≃30° · DIN 1835 A

NORMALE

E10

- FRESE PER SGROSSATURA - Denti elicoidali con rompitruciolo spogliato completamente rettificato - Due denti frontali taglienti fino al centro - Codolo cilindrico
- ROUGHING END MILLS - Helical teeth with form relieved entirely ground chip-breaker - Two end teeth cutting up to the centre - Straight shank
- FRAISES FRONTALES ÉBAUCHE - Denture hélicoïdale avec brise-copeaux profil rond - Deux dents bout coupantes jusq'au centre - Queue cylindrique
- SCHAFTFRÄSER - Schrägschneiden mit voll eingeschliffenem Spannbrecher - Zwei Schneiden mit Zentrumschnitt - Zylinderschaft
- FRESAS CILINDRICAS FRONTALES PARA DESBASTE - Labios helicoidal con arranca de viruta completamente rectificado - Dos labios que cortan hasta el centro - Mango cilindrico
- FRESAS CILINDRICAS FRONTAIS PARA DESBASTE - Fresa com corte ao centro com quebra-apara - Encabadouro cilindrico
- Фреза концевая для черновой обработки. Режущий торец. Цилиндрический хвостовик. Средняя серия

CODE	d1 mm js14	l2 mm	l1 mm	d2 mm h6	Z €	Co 8% €
E10/01	6	13	57	6	3	•
E10/02	8	19	69	10	4	•
E10/03	10	22	72	10	4	•
E10/04	12	26	83	12	4	•
E10/05	14	26	83	12	4	•
E10/06	15	32	92	16	4	•
E10/07	16	32	92	16	4	•
E10/08	18	32	92	16	4	•
E10/09	20	38	104	20	4	•
E10/10	22	38	104	20	4	•

THREADED DIN 1835 D — su richiesta / on request

Toll. reale sul Ø / *Real Tol. on Ø* ±0,05

Parametri Cutting data pag. 199-222

Suggerimenti Suggestion

SGROSSATURA - ROUGHING ■■■■■
SEMIFINITURA - SEMIFINISHING □□□□□
FINITURA - FINISHING □□□□□

Lavorazioni Workings

Apertura cava Slotting	Contornatura Side milling	Copia 3D 3D copying	Assiale Axial	Rampa Ramping
■	■	□	◪	◪

Materiali Materials

ACCIAI STEELS	GHISE CAST IRON	ACCIAI INOSSIDABILI STAINLESS STEELS	SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM	LEGHE LEGGERE LIGHT ALLOYS	MATERIALI NON FERROSI NON FERROUS MATERIAL
■	■	◪	◪	□	□

CONSIGLIATO RECOMMENDED ■
ACCETTABILE ACCEPTABLE ◪
SCONSIGLIATO NOT RECOMMENDED □

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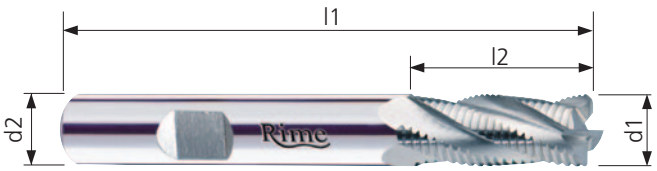
Rime

SERIE
E

FRESE PER SGROSSATURA

NORM	TIPO-TYPE	Z3÷6
UNI 8244 DIN 844B ISO 1641/I	SHORT · NORMAL · LONG · EXTRA-LONG	



HSS-E Co8 · 45° · NR · ≃30° · DIN 1835 B

NORMALE

E12

- FRESE PER SGROSSATURA - Denti elicoidali con rompitruciolo spogliato completamente rettificato - Due denti frontali taglienti fino al centro - Attacco Weldon
- ROUGHING END MILLS - Helical teeth with form relieved entirely ground chip-breaker - Two end teeth cutting up to the centre - Weldon shank
- FRAISES FRONTALES ÉBAUCHE - Denture hélicoïdale avec brise-copeaux profil rond - Deux dents bout coupantes jusq'au centre - Queue cylindrique Weldon
- SCHAFTFRÄSER - Schrägschneiden mit voll eingeschliffenem Spannbrecher - Zwei Schneiden mit Zentrumschnitt - Weldon-Spannfläche
- FRESAS CILINDRICAS FRONTALES PARA DESBASTE - Labios helicoidal con arranca de viruta completamente rectificado - Dos labios que cortan hasta el centro - Mango Weldon
- FRESAS CILINDRICAS FRONTAIS PARA DESBASTE - Fresa com corte ao centro com quebra-apara - Encabadouro Weldon
- Фреза концевая для черновой обработки. Режущий торец. Хвостовик Weldon. Средняя серия

CODE (Co 8%)	d1 mm js14	l2 mm	l1 mm	d2 mm h6	Z	Co 8% €	SUPREME €
E12/00	5	13	57	6	3	•	•
E12/01	6	13	57	6	3	•	•
E12/02	7	16	66	10	3	•	•
E12/03	8	19	69	10	4	•	•
E12/04	9	19	69	10	4	•	•
E12/05	10	22	72	10	4	•	•
E12/06	11	22	79	12	4	•	•
E12/07	12	26	83	12	4	•	•
E12/08	13	26	83	12	4	•	•
E12/09	14	26	83	12	4	•	•
E12/10	15	32	92	16	4	•	•
E12/11	16	32	92	16	4	•	•
E12/12	17	32	92	16	4	•	•
E12/13	18	32	92	16	4	•	•
E12/13/1	19	38	104	20	4	•	•
E12/14	20	38	104	20	4	•	•
E12/15	22	38	104	20	4	•	•
E12/16	24	45	121	25	5	•	•
E12/17	25	45	121	25	5	•	•
E12/18	26	45	121	25	5	•	•
E12/19	28	45	121	25	5	•	•
E12/20	30	45	121	25	5	•	•
E12/21	32	53	133	32	5	•	•
E12/22	36	53	133	32	6	•	•
E12/23	40	63	143	32	6	•	•

Toll. reale sul Ø / *Real Tol. on Ø* ±0,05

COATING **SUPREME**

CODE E12/.../**S**

Parametri
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Suggerimenti Suggestion

SGROSSATURA - ROUGHING ■■■■■
SEMIFINITURA - SEMIFINISHING □□□□□
FINITURA - FINISHING □□□□□

Lavorazioni Workings

Apertura cava Slotting	Contornatura Side milling	Copia 3D 3D copying	Assiale Axial	Rampa Ramping
■	■	□	◪	◪

Materiali Materials

ACCIAI STEELS	GHISE CAST IRON	ACCIAI INOSSIDABILI STAINLESS STEELS	SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM	LEGHE LEGGERE LIGHT ALLOYS	MATERIALI NON FERROSI NON FERROUS MATERIAL
■	■	◪	◪	□	□

CONSIGLIATO RECOMMENDED ■
ACCETTABILE ACCEPTABLE ◪
SCONSIGLIATO NOT RECOMMENDED □

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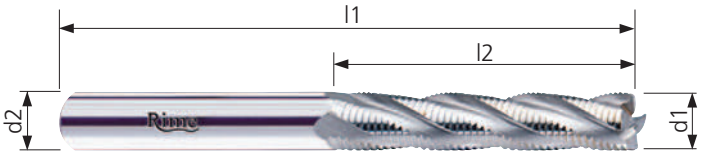
Rime

SERIE
E

FRESE PER SGROSSATURA

NORM	TIPO-TYPE	Z4
UNI 8245 DIN 844A ISO 1641/I	SHORT NORMAL LONG EXTRA-LONG	



HSS-E C08 | 45° | NR | ≃30° | DIN 1835 A

LUNGA

E13

- FRESE PER SGROSSATURA - Denti elicoidali con rompitruciolo spogliato completamente rettificato - Due denti frontali taglienti fino al centro - Codolo cilindrico
- ROUGHING END MILLS - Helical teeth with form relieved entirely ground chip-breaker - Two end teeth cutting up to the centre - Straight shank
- FRAISES FRONTALES ÉBAUCHE - Denture hélicoïdale avec brise-copeaux profil rond - Deux dents bout coupantes jusq'au centre - Queue cylindrique
- SCHAFTFRÄSER - Schrägschneiden mit voll eingeschliffenem Spannbrecher - Zwei Schneiden mit Zentrumschnitt - Zylinderschaft
- FRESAS CILINDRICAS FRONTALES PARA DESBASTE - Labios helicoidal con arranca de viruta completamente rectificado - Dos labios que cortan hasta el centro - Mango cilindrico
- FRESAS CILINDRICAS FRONTAIS PARA DESBASTE - Fresa com corte ao centro com quebra-apara - Encabadouro cilindrico
- Фреза концевая для черновой обработки. Режущий торец. Цилиндрический хвостовик. Удлиненная серия

CODE	d1 mm js14	l2 mm	l1 mm	d2 mm h6	Z	Co 8% €
E13/01	8	38	88	10	4	•
E13/02	10	45	95	10	4	•
E13/03	12	53	110	12	4	•
E13/04	14	53	110	12	4	•
E13/05	15	63	123	16	4	•
E13/06	16	63	123	16	4	•
E13/07	18	63	123	16	4	•
E13/08	20	75	141	20	4	•
E13/09	22	75	141	20	4	•

THREADED DIN 1835 D su richiesta on request

Toll. reale sul Ø *Real Tol. on Ø* ±0,05

Parametri Cutting data pag. 199-222

Suggerimenti Suggestion

SGROSSATURA - ROUGHING ■■■■■
SEMIFINITURA - SEMIFINISHING □□□□□
FINITURA - FINISHING □□□□□

Lavorazioni Workings

Apertura cava Slotting	Contornatura Side milling	Copia 3D 3D copying	Assiale Axial	Rampa Ramping
■	■	□	◪	◪

Materiali Materials

ACCIAI STEELS	GHISE CAST IRON	ACCIAI INOSSIDABILI STAINLESS STEELS	SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM	LEGHE LEGGERE LIGHT ALLOYS	MATERIALI NON FERROSI NON FERROUS MATERIAL
■	■	◪	◪	□	□

CONSIGLIATO RECOMMENDED ■
ACCETTABILE ACCEPTABLE ◪
SCONSIGLIATO NOT RECOMMENDED □

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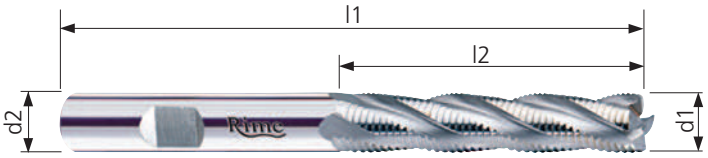
Rime

SERIE
E

FRESE PER SGROSSATURA

NORM	TIPO-TYPE	Z3÷6
UNI 8245 DIN 844B ISO 1641/II	SHORT NORMAL LONG EXTRA-LONG	



HSS-E C08 | 45° | NR | ≃30° | DIN 1835 B

LUNGA

E15

- FRESE PER SGROSSATURA - Denti elicoidali con rompitruciolo spogliato completamente rettificato - Due denti frontali taglienti fino al centro - Attacco Weldon
- ROUGHING END MILLS - Helical teeth with form relieved entirely ground chip-breaker - Two end teeth cutting up to the centre - Weldon shank
- FRAISES FRONTALES ÉBAUCHE - Denture hélicoïdale avec brise-copeaux profil rond - Deux dents bout coupantes jusq'au centre - Queue cylindrique Weldon
- SCHAFTFRÄSER - Schrägschneiden mit voll eingeschliffenem Spannbrecher - Zwei Schneiden mit Zentrumschnitt - Weldon Spannfläche
- FRESAS CILINDRICAS FRONTALES PARA DESBASTE - Labios helicoidal con arranca de viruta completamente rectificado - Dos labios que cortan hasta el centro - Mango Weldon
- FRESAS CILINDRICAS FRONTAIS PARA DESBASTE - Fresa com corte ao centro com quebra-apara - Encabadouro Weldon
- Фреза концевая для черновой обработки. Режущий торец. Хвостовик Weldon. Удлиненная серия

CODE (Co 8%)	d1 mm js14	l2 mm	l1 mm	d2 mm h6	Z	Co 8% €	SUPREME €
E15/00	6	24	68	6	3	•	•
E15/00/1	7	30	80	10	3	•	•
E15/01	8	38	88	10	4	•	•
E15/01/1	9	45	95	10	4	•	•
E15/02	10	45	95	10	4	•	•
E15/02/1	11	53	110	12	4	•	•
E15/03	12	53	110	12	4	•	•
E15/03/1	13	53	110	12	4	•	•
E15/04	14	53	110	12	4	•	•
E15/05	15	63	123	16	4	•	•
E15/06	16	63	123	16	4	•	•
E15/06/1	17	63	123	16	4	•	•
E15/07	18	63	123	16	4	•	•
E15/08	20	75	141	20	4	•	•
E15/09	22	75	141	20	4	•	•
E15/10	24	90	166	25	5	•	•
E15/11	25	90	166	25	5	•	•
E15/12	28	90	166	25	5	•	•
E15/13	30	90	166	25	5	•	•
E15/14	32	106	186	32	5	•	•
E15/15	36	106	186	32	6	•	•
E15/16	40	125	205	32	6	•	•

Toll. reale sul Ø *Real Tol. on Ø* ±0,05

COATING **SUPREME**

CODE E15/.../**S**

Parametri Cutting data pag. 199-222

Suggerimenti Suggestion

SGROSSATURA - ROUGHING ■■■■■
SEMIFINITURA - SEMIFINISHING □□□□□
FINITURA - FINISHING □□□□□

Lavorazioni Workings

Apertura cava Slotting	Contornatura Side milling	Copia 3D 3D copying	Assiale Axial	Rampa Ramping
■	■	□	◪	◪

Materiali Materials

ACCIAI STEELS	GHISE CAST IRON	ACCIAI INOSSIDABILI STAINLESS STEELS	SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM	LEGHE LEGGERE LIGHT ALLOYS	MATERIALI NON FERROSI NON FERROUS MATERIAL
■	■	◪	◪	□	□

CONSIGLIATO RECOMMENDED ■
ACCETTABILE ACCEPTABLE ◪
SCONSIGLIATO NOT RECOMMENDED □

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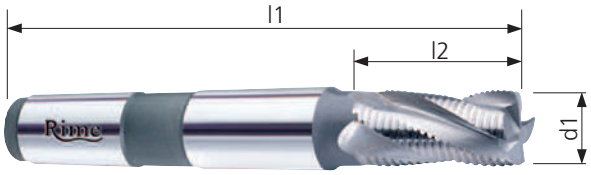
Rime

SERIE
E

FRESE PER SGROSSATURA

NORM	TIPO-TYPE	Z4÷7
UNI 8250 8251 DIN 845B ISO 1641/II	SHORT NORMAL LONG EXTRA-LONG	



HSS-E Co8 | 45° | NR | ≃30° | DIN 228 A

NORMALE

E16

- FRESE PER SGROSSATURA - Denti elicoidali con rompitruciolo spogliato completamente rettificato - Due denti frontali taglienti fino al centro - Codolo conico Morse con foro filettato
- ROUGHING END MILLS - Helical teeth with form relieved entirely ground chip-breaker - Two end teeth cutting up to the centre - Morse taper shank
- FRAISES FRONTALES ÉBAUCHE - Denture hélicoïdale avec brise-copeaux profil rond - Deux dents bout coupantes jusq'au centre - Queue au cône Morse à trou fileté
- SCHAFTFRÄSER - Schrägschneiden mit voll eingeschliffenem Spannbrecher - Zwei Schneiden mit Zentrumschnitt - Morsekegelschaft und Anzugsgewinde
- FRESAS CILINDRICAS FRONTALES PARA DESBASTE - Labios helicoidal con arranca de viruta completamente rectificado - Dos labios que cortan hasta el centro - Mango conico Morse con taladro roscado
- FRESAS CILINDRICAS FRONTAIS PARA DESBASTE - Fresa com corte ao centro com quebra-apara - Encabadouro cone Morse
- Фреза концевая для черновой обработки. Режущий торец. Хвостовик конус Морзе с резьбой. Средняя серия

CODE (Co 8%)	d1 mm js14	l2 mm	l1 mm	CM-MK	Z	Co 8% €	SUPREME €	
E16/01	16	32	117	2	4	•	•	
E16/02	18	32	117	2	4	•	•	
E16/03	20	38	140	3	4	•	•	
E16/04	22	38	140	3	4	•	•	
E16/05	24	45	147	3	5	•	•	
E16/06	25	45	147	3	5	•	•	
E16/07	26	45	147	3	5	•	•	
E16/08	28	45	147	3	5	•	•	
E16/09	30	53	155	3	5	•	•	
E16/10	32	53	178	4	5	•	•	
E16/11	34	53	178	4	5	•	•	
E16/12	35	53	178	4	6	•	•	
E16/13	36	53	178	4	6	•	•	
E16/14	38	63	188	4	6	•	•	
E16/15	40	63	188	4	6	•	•	
E16/16	45	63	188	4	6	•	•	
E16/17	50	75	200	4	7	•	•	

Toll. reale sul Ø / *Real Tol. on Ø* ±0,05

COATING **SUPREME**

CODE E16/.../**S**

Parametri Cutting data pag. 199-222

Suggerimenti Suggestion

SGROSSATURA - ROUGHING ■■■■■
SEMIFINITURA - SEMIFINISHING □□□□□
FINITURA - FINISHING □□□□□

Lavorazioni Workings

Apertura cava Slotting	Contornatura Side milling	Copia 3D 3D copying	Assiale Axial	Rampa Ramping
■	■	□	◪	◪

Materiali Materials

ACCIAI STEELS	GHISE CAST IRON	ACCIAI INOSSIDABILI STAINLESS STEELS	SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM	LEGHE LEGGERE LIGHT ALLOYS	MATERIALI NON FERROSI NON FERROUS MATERIAL
■	■	◪	◪	□	□

■ CONSIGLIATO RECOMMENDED
◪ ACCETTABILE ACCEPTABLE
□ SCONSIGLIATO NOT RECOMMENDED

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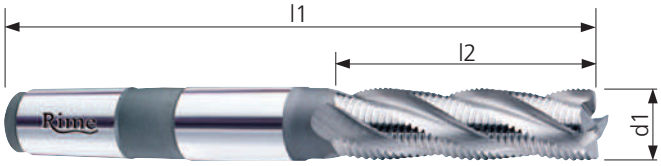
Rime

SERIE
E

FRESE PER SGROSSATURA

NORM	TIPO-TYPE	Z4÷7
UNI 8250 8251 DIN 845B ISO 1641/II	SHORT NORMAL LONG EXTRA-LONG	



HSS-E Co8 | 45° | NR | ≃30° | DIN 228 A

LUNGA

E17

- FRESE PER SGROSSATURA - Denti elicoidali con rompitruciolo spogliato completamente rettificato - Due denti frontali taglienti fino al centro - Codolo conico Morse con foro filettato
- ROUGHING END MILLS - Helical teeth with form relieved entirely ground chip-breaker - Two end teeth cutting up to the centre - Morse taper shank
- FRAISES FRONTALES ÉBAUCHE - Denture hélicoïdale avec brise-copeaux profil rond - Deux dents bout coupantes jusq'au centre - Queue au cône Morse à trou fileté
- SCHAFTFRÄSER - Schrägschneiden mit voll eingeschliffenem Spannbrecher - Zwei Schneiden mit Zentrumschnitt - Morsekegelschaft und Anzugsgewinde
- FRESAS CILINDRICAS FRONTALES PARA DESBASTE - Labios helicoidal con arranca de viruta - Dos labios que cortan hasta el centro - Mango conico Morse con taladro roscado
- FRESAS CILINDRICAS FRONTALES PARA DESBASTE - Fresa com corte ao centro com quebra-apara - Encabadouro cone Morse
- Фреза концевая для черновой обработки. Режущий торец. Хвостовик конус Морзе с резьбой. Удлиненная серия

CODE (Co 8%)	d1 mm js14	l2 mm	l1 mm	CM-MK	Z	Co 8% €	SUPREME €	
E17/01	16	63	148	2	4	•	•	
E17/02	18	63	148	2	4	•	•	
E17/03	20	75	177	3	4	•	•	
E17/04	22	75	177	3	4	•	•	
E17/05	24	90	192	3	5	•	•	
E17/06	25	90	192	3	5	•	•	
E17/07	26	90	192	3	5	•	•	
E17/08	28	90	192	3	5	•	•	
E17/09	30	90	192	3	5	•	•	
E17/10	32	106	231	4	5	•	•	
E17/11	34	106	231	4	5	•	•	
E17/12	35	106	231	4	6	•	•	
E17/13	36	106	231	4	6	•	•	
E17/14	38	125	250	4	6	•	•	
E17/15	40	125	250	4	6	•	•	
E17/16	45	125	250	4	6	•	•	
E17/17	50	150	275	4	7	•	•	

Toll. reale sul Ø / *Real Tol. on Ø* ±0,05

COATING **SUPREME**

CODE E17/.../**S**

Parametri
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Suggerimenti Suggestion

SGROSSATURA - ROUGHING ■■■■■
SEMIFINITURA - SEMIFINISHING □□□□□
FINITURA - FINISHING □□□□□

Lavorazioni Workings

Apertura cava Slotting	Contornatura Side milling	Copia 3D 3D copying	Assiale Axial	Rampa Ramping
■	■	□	◪	◪

Materiali Materials

ACCIAI STEELS	GHISE CAST IRON	ACCIAI INOSSIDABILI STAINLESS STEELS	SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM	LEGHE LEGGERE LIGHT ALLOYS	MATERIALI NON FERROSI NON FERROUS MATERIAL
■	■	◪	◪	□	□

CONSIGLIATO RECOMMENDED ■
ACCETTABILE ACCEPTABLE ◪
SCONSIGLIATO NOT RECOMMENDED □

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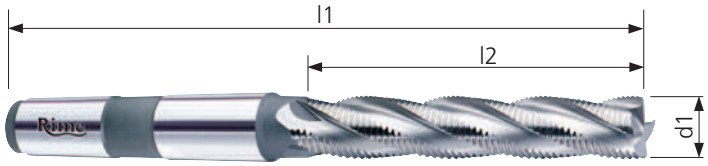
Rime

SERIE
E

FRESE PER SGROSSATURA

NORM | TIPO-TYPE | Z4÷7



HSS-E Co8 | 45° | NR | ≃30° | DIN 228 A

EXTRA-LUNGA

E18

- FRESE PER SGROSSATURA - Denti elicoidali con rompitruciolo spogliato completamente rettificato - Due denti frontali taglienti fino al centro - Codolo conico Morse con foro filettato
- ROUGHING END MILLS - Helical teeth with form relieved entirely ground chip-breaker - Two end teeth cutting up to the centre - Morse taper shank
- FRAISES FRONTALES ÉBAUCHE - Denture hélicoïdale avec brise-copeaux profil rond - Deux dents bout coupantes jusq'au centre - Queue au cône Morse à trou fileté
- SCHAFTFRÄSER - Schrägschneiden mit voll eingeschliffenem Spannbrecher - Zwei Schneiden mit Zentrumschnitt - Morsekegelschaft und Anzugsgewinde
- FRESAS CILINDRICAS FRONTALES PARA DESBASTE - Labios helicoidal con arranca de viruta completamente rectificado - Dos labios que cortan hasta el centro - Mango conico Morse con taladro roscado
- FRESAS CILINDRICAS FRONTALES PARA DESBASTE - Fresa com corte ao centro com quebra-apara - Encabadouro cone Morse con taladro roscado
- Фреза концевая для черновой обработки. Режущий торец. Хвостовик конус Морзе с резьбой. Ультрадлинная серия

CODE	d1 mm js14	l2 mm	l1 mm	CM-MK	Z	Co 8% €
E18/03	20	110	212	3	4	•
E18/04	22	110	212	3	4	•
E18/05	24	125	227	3	5	•
E18/06	25	125	250	4	5	•
E18/07	26	125	250	4	5	•
E18/08	28	135	260	4	5	•
E18/09	30	140	265	4	5	•
E18/10	32	150	275	4	6	•
E18/11	34	150	275	4	6	•
E18/12	35	150	275	4	6	•
E18/13	36	150	275	4	6	•
E18/14	38	180	305	4	6	•
E18/15	40	180	305	4	6	•
E18/16	45	190	315	4	7	•
E18/17	50	200	360	5	7	•

Toll. reale sul Ø / *Real Tol. on Ø* ±0,05

Parametri
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Suggerimenti Suggestion

SGROSSATURA - ROUGHING ■■■■■
SEMIFINITURA - SEMIFINISHING □□□□□
FINITURA - FINISHING □□□□□

Lavorazioni Workings

Apertura cava Slotting	Contornatura Side milling	Copia 3D 3D copying	Assiale Axial	Rampa Ramping
■	■	□	◪	◪

Materiali Materials

ACCIAI STEELS	GHISE CAST IRON	ACCIAI INOSSIDABILI STAINLESS STEELS	SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM	LEGHE LEGGERE LIGHT ALLOYS	MATERIALI NON FERROSI NON FERROUS MATERIAL
■	■	◪	◪	□	□

CONSIGLIATO RECOMMENDED ■
ACCETTABILE ACCEPTABLE ◪
SCONSIGLIATO NOT RECOMMENDED □

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Rime
advanced tools production

SERIE F

Frese per semifinitura

Semifinishing end mills

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advanced tools production

design and technology

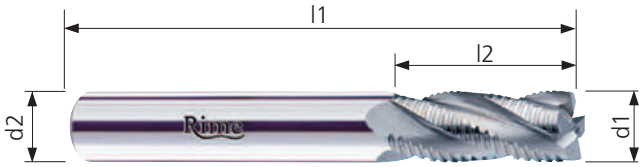
Rime
advanced tools production

Rime

SERIE
F

FRESE PER SEMIFINITURA

NORM	TIPO-TYPE	Z3÷4
UNI 8244 DIN 844A ISO 1641/II	SHORT NORMAL LONG EXTRA-LONG	



HSS-E C08 | 45° | NF | ≃30° | DIN 1835 A

NORMALE

F10

- FRESE PER SEMIFINITURA - Denti elicoidali con rompitruciolo spogliato completamente rettificato - Due denti frontali taglienti fino al centro - Codolo cilindrico
- ROUGHING AND SEMIFINISHING END MILLS - Helical teeth with form relieved entirely ground chip-breaker - Two end teeth cutting up to the centre - Straight shank
- FRAISES FRONTALES ÉBAUCHE - SEMI FINITION - Denture hélicoïdale avec brise-copeaux profil plat - Deux dents bout coupantes jusq'au centre - Queue cylindrique
- SCHAFTFRÄSER - Schrägschneiden mit voll eingeschliffenem Spannbrecher - Zwei Schneiden mit Zentrumschnitt - Zylinderschaft
- FRESAS CILINDRICAS FRONTALES PARA SEMIACABADO - Labios helicoidal con arranca de viruta completamente rectificado - Dos labios que cortan hasta el centro - Mango cilindrico
- FRESAS CILINDRICAS FRONTALES PARA SEMIACABAMENTO - Fresa com corte ao centro com quebra-apara - Encabadouro cilindrico
- Фреза для получистовой обработки со стружколомом. Режущий торец. Цилиндрический хвостовик. Средняя серия

CODE	d1 mm js14	l2 mm	l1 mm	d2 mm h6	Z	Co 8% €
F10/01	6	13	57	6	3	•
F10/02	8	19	69	10	4	•
F10/03	10	22	72	10	4	•
F10/04	12	26	83	12	4	•
F10/05	14	26	83	12	4	•
F10/06	15	32	92	16	4	•
F10/07	16	32	92	16	4	•
F10/08	18	32	92	16	4	•
F10/09	20	38	104	20	4	•
F10/10	22	38	104	20	4	•

THREADED DIN 1835 D — su richiesta / on request

Toll. reale sul Ø / *Real Tol. on Ø* ±0,05

Parametri
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Suggerimenti Suggestion

SGROSSATURA - ROUGHING
SEMIFINITURA - SEMIFINISHING
FINITURA - FINISHING

Lavorazioni Workings

Apertura cava Slotting	Contornatura Side milling	Copia 3D 3D copying	Assiale Axial	Rampa Ramping
■	■	□	◪	◪

Materiali Materials

ACCIAI STEELS	GHISE CAST IRON	ACCIAI INOSSIDABILI STAINLESS STEELS	SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM	LEGHE LEGGERE LIGHT ALLOYS	MATERIALI NON FERROSI NON FERROUS MATERIAL
■	■	◪	◪	□	□

CONSIGLIATO RECOMMENDED ■
ACCETTABILE ACCEPTABLE ◪
SCONSIGLIATO NOT RECOMMENDED □

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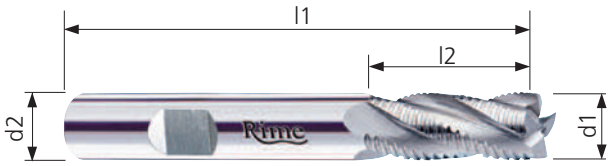
Rime

SERIE
F

FRESE PER SEMIFINITURA

NORM	TIPO-TYPE	Z3÷6
UNI 8244 DIN 844B ISO 1641/II	SHORT NORMAL LONG EXTRA-LONG	



HSS-E Co8 | 45° | NF | ≃30° | DIN 1835 B

NORMALE

F12

- FRESE PER SEMIFINITURA - Denti elicoidali con rompitruciolo spogliato completamente rettificato - Due denti frontali taglienti fino al centro - Attacco Weldon
- ROUGHING AND SEMIFINISHING END MILLS - Helical teeth with form relieved entirely ground chip-breaker - Two end teeth cutting up to the centre - Weldon shank
- FRAISES FRONTALES ÉBAUCHE - SEMI FINITION - Denture hélicoïdale avec brise-copeaux profil plat - Deux dents bout coupantes jusq'au centre - Queue cylindrique Weldon
- SCHAFTFRÄSER - Schrägschneiden mit voll eingeschliffenem Spannbrecher - Zwei Schneiden mit Zentrumschnitt - Weldon Spannfläche
- FRESAS CILINDRICAS FRONTALES PARA SEMIACABADO - Labios helicoidal con arranca de viruta completamente rectificado - Dos labios que cortan hasta el centro - Mango Weldon
- FRESAS CILINDRICAS FRONTAIS PARA SEMIACABAMENTO - Fresa com corte ao centro com quebra-apara - Encabadouro Weldon
- Фреза для получистовой обработки со стружколомом. Режущий торец. Хвостовик Weldon. Средняя серия

CODE (Co 8%)	d1 mm js14	l2 mm	l1 mm	d2 mm h6	Z	Co 8% €	SUPREME €	
F12/01	6	13	57	6	3	•	•	
F12/02	7	16	66	10	3	•	•	
F12/03	8	19	69	10	4	•	•	
F12/04	9	19	69	10	4	•	•	
F12/05	10	22	72	10	4	•	•	
F12/06	11	22	79	12	4	•	•	
F12/07	12	26	83	12	4	•	•	
F12/08	13	26	83	12	4	•	•	
F12/09	14	26	83	12	4	•	•	
F12/10	15	32	92	16	4	•	•	
F12/11	16	32	92	16	4	•	•	
F12/12	17	32	92	16	4	•	•	
F12/13	18	32	92	16	4	•	•	
F12/13/1	19	38	104	20	4	•	•	
F12/14	20	38	104	20	4	•	•	
F12/15	22	38	104	20	4	•	•	
F12/16	24	45	121	25	5	•	•	
F12/17	25	45	121	25	5	•	•	
F12/18	26	45	121	25	5	•	•	
F12/19	28	45	121	25	5	•	•	
F12/20	30	45	121	25	5	•	•	
F12/21	32	53	133	32	5	•	•	
F12/22	36	53	133	32	6	•	•	
F12/23	40	63	143	32	6	•	•	

Toll. reale sul Ø / *Real Tol. on Ø* ±0,05

COATING **SUPREME**

CODE F12/.../**S**

Parametri Cutting data pag. 199-222

Suggerimenti Suggestion

SGROSSATURA - ROUGHING	■■■□□
SEMIFINITURA - SEMIFINISHING	■■■■■
FINITURA - FINISHING	□□□□□

Lavorazioni Workings

Apertura cava Slotting	Contornatura Side milling	Copia 3D 3D copying	Assiale Axial	Rampa Ramping
■	■	□	◪	◪

Materiali Materials

ACCIAI STEELS	GHISE CAST IRON	ACCIAI INOSSIDABILI STAINLESS STEELS	SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM	LEGHE LEGGERE LIGHT ALLOYS	MATERIALI NON FERROSI NON FERROUS MATERIAL
■	■	◪	◪	□	□

CONSIGLIATO RECOMMENDED ■
ACCETTABILE ACCEPTABLE ◪
SCONSIGLIATO NOT RECOMMENDED □

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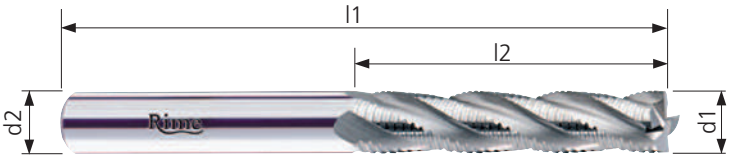
Rime

SERIE
F

FRESE PER SEMIFINITURA

NORM	TIPO-TYPE	Z4
UNI 8254 DIN 844A ISO 1641/I	SHORT NORMAL LONG EXTRA-LONG	



HSS-E Co8 | 45° | NF | ≃30° | DIN 1835 A

LUNGA

F13

- FRESE PER SEMIFINITURA - Denti elicoidali con rompitruciolo spogliato completamente rettificato - Due denti frontali taglienti fino al centro - Codolo cilindrico
- ROUGHING AND SEMIFINISHING END MILLS - Helical teeth with form relieved entirely ground chip-breaker - Two end teeth cutting up to the centre - Straight shank
- FRAISES FRONTALES ÉBAUCHE - SEMI FINITION - Denture hélicoïdale avec brise-copeaux profil plat - Deux dents bout coupantes jusq'au centre - Queue cylindrique
- SCHAFTFRÄSER - Schrägschneiden mit voll eingeschliffenem Spannbrecher - Zwei Schneiden mit Zentrumschnitt - Zylinderschaft
- FRESAS CILINDRICAS FRONTALES PARA SEMIACABADO - Labios helicoidal con arranca de viruta completamente rectificado - Dos labios que cortan hasta el centro - Mango cilindrico
- FRESAS CILINDRICAS FRONTAIS PARA SEMIACABAMENTO - Fresa com corte ao centro com quebra-apara - Encabadouro cilindrico
- Фреза для получистовой обработки со стружколомом. Режущий торец. Цилиндрический хвостовик. Удлиненная серия

CODE	d1 mm js14	l2 mm	l1 mm	d2 mm h6	Z	Co 8% €
F13/01	8	38	88	10	4	•
F13/02	10	45	95	10	4	•
F13/03	12	53	110	12	4	•
F13/04	14	53	110	12	4	•
F13/05	15	63	123	16	4	•
F13/06	16	63	123	16	4	•
F13/07	18	63	123	16	4	•
F13/08	20	75	141	20	4	•
F13/09	22	75	141	20	4	•

THREADED DIN 1835 D — su richiesta / on request

Toll. reale sul Ø / *Real Tol. on Ø* ±0,05

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Suggerimenti Suggestion

SGROSSATURA - ROUGHING ■■■□□
SEMIFINITURA - SEMIFINISHING ■■■■■
FINITURA - FINISHING □□□□□

Lavorazioni Workings

Apertura cava Slotting	Contornatura Side milling	Copia 3D 3D copying	Assiale Axial	Rampa Ramping
■	■	□	◪	◪

Materiali Materials

ACCIAI STEELS	GHISE CAST IRON	ACCIAI INOSSIDABILI STAINLESS STEELS	SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM	LEGHE LEGGERE LIGHT ALLOYS	MATERIALI NON FERROSI NON FERROUS MATERIAL
■	■	◪	◪	□	□

CONSIGLIATO RECOMMENDED ■
ACCETTABILE ACCEPTABLE ◪
SCONSIGLIATO NOT RECOMMENDED □

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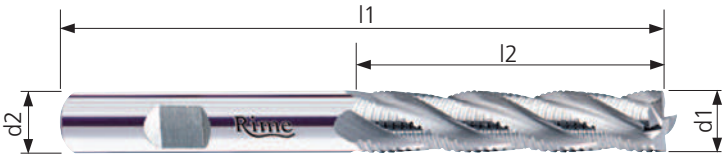
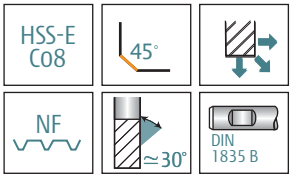
Rime

SERIE
F

FRESE PER SEMIFINITURA

NORM	TIPO-TYPE	Z3÷6
UNI 8245 DIN 844B ISO 1641/II	SHORT NORMAL LONG EXTRA-LONG	





LUNGA

F15

- FRESE PER SEMIFINITURA - Denti elicoidali con rompitruciolo spogliato completamente rettificato - Due denti frontali taglienti fino al centro - Attacco Weldon
- ROUGHING AND SEMIFINISHING END MILLS - Helical teeth with form relieved entirely ground chip-breaker - Two end teeth cutting up to the centre - Weldon shank
- FRAISES FRONTALES ÉBAUCHE - SEMI FINITION - Denture hélicoïdale avec brise-copeaux profil plat - Deux dents bout coupantes jusq'au centre - Queue cylindrique Weldon
- SCHAFTFRÄSER - Schrägschneiden mit voll eingeschliffenem Spannbrecher - Zwei Schneiden mit Zentrumschnitt - Weldon Spannfläche
- FRESAS CILINDRICAS FRONTALES PARA SEMIACABADO - Labios helicoidal con arranca de viruta completamente rectificado - Dos labios que cortan hasta el centro - Mango Weldon
- FRESAS CILINDRICAS FRONTAIS PARA SEMIACABAMENTO - Fresa com corte ao centro com quebra-apara - Encabadouro Weldon
- Фреза для получистовой обработки со стружколомом. Режущий торец. Хвостовик Weldon. Удлиненная серия

CODE (Co 8%)	d1 mm js14	l2 mm	l1 mm	d2 mm h6	Z	Co 8% €	SUPREME €	
F15/00	6	24	68	6	3	•	•	
F15/00/1	7	30	80	10	3	•	•	
F15/01	8	38	88	10	4	•	•	
F15/01/1	9	45	95	10	4	•	•	
F15/02	10	45	95	10	4	•	•	
F15/02/1	11	53	110	12	4	•	•	
F15/03	12	53	110	12	4	•	•	
F15/03/1	13	53	110	12	4	•	•	
F15/04	14	53	110	12	4	•	•	
F15/05	15	63	123	16	4	•	•	
F15/06	16	63	123	16	4	•	•	
F15/06/1	17	63	123	16	4	•	•	
F15/07	18	63	123	16	4	•	•	
F15/08	20	75	141	20	4	•	•	
F15/09	22	75	141	20	4	•	•	
F15/10	24	90	166	25	5	•	•	
F15/11	25	90	166	25	5	•	•	
F15/12	28	90	166	25	5	•	•	
F15/13	30	90	166	25	5	•	•	
F15/14	32	106	186	32	5	•	•	
F15/15	36	106	186	32	6	•	•	
F15/16	40	125	205	32	6	•	•	

Toll. reale sul Ø ±0,05
Real Tol. on Ø

COATING **SUPREME**

CODE
F15/.../**S**

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Suggerimenti
Suggestion

SGROSSATURA - ROUGHING
SEMIFINITURA - SEMIFINISHING
FINITURA - FINISHING

Lavorazioni
Workings

Apertura cava Slotting	Contornatura Side milling	Copia 3D 3D copying	Assiale Axial	Rampa Ramping
■	■	□	◪	◪

Materiali
Materials

ACCIAI STEELS	GHISE CAST IRON	ACCIAI INOSSIDABILI STAINLESS STEELS	SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM	LEGHE LEGGERE LIGHT ALLOYS	MATERIALI NON FERROSI NON FERROUS MATERIAL
■	■	◪	◪	□	□

■ CONSIGLIATO RECOMMENDED
◪ ACCETTABILE ACCEPTABLE
□ SCONSIGLIATO NOT RECOMMENDED

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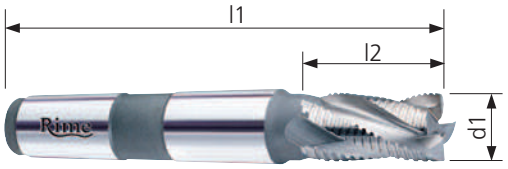
Rime

SERIE
F

FRESE PER SEMIFINITURA

NORM	TIPO-TYPE	Z4÷7
UNI 8250 8251 DIN 845B ISO 1641/II	SHORT NORMAL LONG EXTRA-LONG	



HSS-E Co8 | 45° | NF | ≃30° | DIN 228 A

NORMALE

F16

- FRESE PER SEMIFINITURA - Denti elicoidali con rompitruciolo spogliato completamente rettificato - Due denti frontali taglienti fino al centro - Codolo conico Morse con foro filettato
- ROUGHING AND SEMIFINISHING END MILLS - Helical teeth with form relieved entirely ground chip-breaker - Two end teeth cutting up to the centre - Morse taper shank
- FRAISES FRONTALES ÉBAUCHE - SEMI FINITION - Denture hélicoïdale avec brise-copeaux profil plat -Deux dents bout coupantes jusq'au centre - Queue au cône Morse à trou fileté
- SCHAFTFRÄSER - Schrägschneiden mit voll eingeschliffenem Spannbrecher - Zwei Schneiden mit Zentrumschnitt - Morsekegelschaft und Anzugsgewinde
- FRESAS CILINDRICAS FRONTALES PARA SEMIACABADO - Labios helicoidal con arranca de viruta completamente rectificado - Dos labios que cortan hasta el centro - Mango conico Morse con taladro roscado
- FRESAS CILINDRICAS FRONTAIS PARA SEMIACABAMENTO - Fresa com corte ao centro com quebra-apara - Encabadouro cone Morse con taladro roscado
- Фреза для получистовой обработки со стружколомом. Режущий торец. Хвостовик конус Морзе с резьбой. Средняя серия

CODE (Co 8%)	d1 mm js14	l2 mm	l1 mm	CM-MK	Z	Co 8% €	SUPREME €	
F16/01	16	32	117	2	4	•	•	
F16/02	18	32	117	2	4	•	•	
F16/03	20	38	140	3	4	•	•	
F16/04	22	38	140	3	4	•	•	
F16/05	24	45	147	3	5	•	•	
F16/06	25	45	147	3	5	•	•	
F16/07	26	45	147	3	5	•	•	
F16/08	28	45	147	3	5	•	•	
F16/09	30	53	155	3	5	•	•	
F16/10	32	53	178	4	5	•	•	
F16/11	34	53	178	4	5	•	•	
F16/12	35	53	178	4	6	•	•	
F16/13	36	53	178	4	6	•	•	
F16/14	38	63	188	4	6	•	•	
F16/15	40	63	188	4	6	•	•	
F16/16	45	63	188	4	6	•	•	
F16/17	50	75	200	4	7	•	•	

Toll. reale sul Ø / *Real Tol. on Ø* ±0,05

COATING **SUPREME**

CODE F16/.../**S**

Parametri Cutting data pag. 199-222

Suggerimenti Suggestion

SGROSSATURA - ROUGHING
SEMIFINITURA - SEMIFINISHING
FINITURA - FINISHING

Lavorazioni Workings

Apertura cava Slotting	Contornatura Side milling	Copia 3D 3D copying	Assiale Axial	Rampa Ramping
■	■	□	◪	◪

Materiali Materials

ACCIAI STEELS	GHISE CAST IRON	ACCIAI INOSSIDABILI STAINLESS STEELS	SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM	LEGHE LEGGERE LIGHT ALLOYS	MATERIALI NON FERROSI NON FERROUS MATERIAL
■	■	◪	◪	□	□

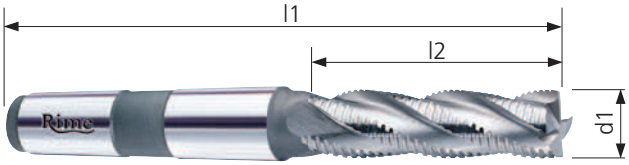
CONSIGLIATO RECOMMENDED ■
ACCETTABILE ACCEPTABLE ◪
SCONSIGLIATO NOT RECOMMENDED □

Rime

SERIE
F

FRESE PER SEMIFINITURA

NORM	TIPO-TYPE	Z4÷7
UNI 8250 8251 DIN 845B ISO 1641/II	SHORT NORMAL LONG EXTRA-LONG	



HSS-E Co8 | 45° | | NF | ≃30° | DIN 228 A

LUNGA

F17

- FRESE PER SEMIFINITURA - Denti elicoidali con rompitruciolo spogliato completamente rettificato - Due denti frontali taglienti fino al centro - Codolo conico Morse con foro filettato
- ROUGHING AND SEMIFINISHING END MILLS - Helical teeth with form relieved entirely ground chip-breaker - Two end teeth cutting up to the centre - Morse taper shank
- FRAISES FRONTALES ÉBAUCHE - SEMI FINITION - Denture hélicoïdale avec brise-copeaux profil plat -Deux dents bout coupantes jusq'au centre - Queue au cône Morse à trou fileté
- SCHAFTFRÄSER - Schrägschneiden mit voll eingeschliffenem Spannbrecher - Zwei Schneiden mit Zentrumschnitt - Morsekegelschaft und Anzugsgewinde
- FRESAS CILINDRICAS FRONTALES PARA SEMIACABADO - Labios helicoidal con arranca de viruta completamente rectificado - Dos labios que cortan hasta el centro - Mango conico Morse con taladro roscado
- FRESAS CILINDRICAS FRONTAIS PARA SEMIACABAMENTO - Fresa com corte ao centro com quebra-apara - Encabadouro cone Morse con taladro roscado
- Фреза для получистовой обработки со стружколомом. Режущий торец. Хвостовик конус Морзе с резьбой. Удлиненная серия

CODE (Co 8%)	d1 mm js14	l2 mm	l1 mm	CM-MK	Z	Co 8% €	SUPREME €
F17/01	16	63	148	2	4	•	•
F17/02	18	63	148	2	4	•	•
F17/03	20	75	177	3	4	•	•
F17/04	22	75	177	3	4	•	•
F17/05	24	90	192	3	5	•	•
F17/06	25	90	192	3	5	•	•
F17/07	26	90	192	3	5	•	•
F17/08	28	90	192	3	5	•	•
F17/09	30	90	192	3	5	•	•
F17/10	32	106	231	4	5	•	•
F17/11	34	106	231	4	5	•	•
F17/12	35	106	231	4	6	•	•
F17/13	36	106	231	4	6	•	•
F17/14	38	125	250	4	6	•	•
F17/15	40	125	250	4	6	•	•
F17/16	45	125	250	4	6	•	•
F17/17	50	150	275	4	7	•	•

Toll. reale sul Ø / *Real Tol. on Ø* ±0,05

COATING **SUPREME**

CODE F17/.../**S**

Parametri Cutting data pag. 199-222

Suggerimenti Suggestion

SGROSSATURA - ROUGHING ■■■□□

SEMIFINITURA - SEMIFINISHING ■■■■■

FINITURA - FINISHING □□□□□

Lavorazioni Workings

Apertura cava Slotting	Contornatura Side milling	Copia 3D 3D copying	Assiale Axial	Rampa Ramping
■	■	□	◪	◪

Materiali Materials

ACCIAI STEELS	GHISE CAST IRON	ACCIAI INOSSIDABILI STAINLESS STEELS	SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM	LEGHE LEGGERE LIGHT ALLOYS	MATERIALI NON FERROSI NON FERROUS MATERIAL
■	■	◪	◪	□	□

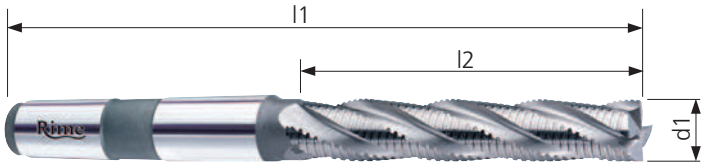
CONSIGLIATO RECOMMENDED ■
ACCETTABILE ACCEPTABLE ◪
SCONSIGLIATO NOT RECOMMENDED □

Rime

SERIE
F

FRESE PER SEMIFINITURA

NORM | TIPO-TYPE | Z4÷7



HSS-E C08 | 45° | NF | ≃30° | DIN 228 A

EXTRA-LUNGA

F18

- FRESE PER SEMIFINITURA - Denti elicoidali con rompitruciolo spogliato completamente rettificato - Due denti frontali taglienti fino al centro - Codolo conico Morse con foro filettato
- ROUGHING AND SEMIFINISHING END MILLS - Helical teeth with form relieved entirely ground chip-breaker - Two end teeth cutting up to the centre - Morse taper shank
- FRAISES FRONTALES ÉBAUCHE - SEMI FINITION - Denture hélicoïdale avec brise-copeaux profil plat -Deux dents bout coupantes jusq'au centre - Queue au cône Morse à trou fileté
- SCHAFTFRÄSER - Schrägschneiden mit voll eingeschliffenem Spannbrecher - Zwei Schneiden mit Zentrumschnitt Morsekegelschaft und Anzugsgewinde
- FRESAS CILINDRICAS FRONTALES PARA SEMIACABADO - Labios helicoidal con arranca de viruta completamente rectificado - Dos labios que cortan hasta el centro - Mango conico Morse con taladro roscado
- FRESAS CILINDRICAS FRONTAIS PARA SEMIACABAMENTO - Fresa com corte ao centro com quebra-apara - Encabadouro cone Morse com taladro roscado
- Фреза для получистовой обработки со стружколомом. Режущий торец. Хвостовик конус Морзе с резьбой. Ультрадлинная серия

CODE	d1 mm js14	l2 mm	l1 mm	CM-MK	Z	Co 8% €
F18/03	20	110	212	3	4	•
F18/04	22	110	212	3	4	•
F18/05	24	125	227	3	5	•
F18/06	25	125	250	4	5	•
F18/07	26	125	250	4	5	•
F18/08	28	135	260	4	5	•
F18/09	30	140	265	4	5	•
F18/10	32	150	275	4	6	•
F18/11	34	150	275	4	6	•
F18/12	35	150	275	4	6	•
F18/13	36	150	275	4	6	•
F18/14	38	180	305	4	6	•
F18/15	40	180	305	4	6	•
F18/16	45	190	315	4	7	•
F18/17	50	200	360	5	7	•

Toll. reale sul Ø / *Real Tol. on Ø* ±0,05

Parametri Cutting data pag. 199-222

Suggerimenti Suggestion

SGROSSATURA - ROUGHING
SEMIFINITURA - SEMIFINISHING
FINITURA - FINISHING

Lavorazioni Workings

Apertura cava Slotting	Contornatura Side milling	Copia 3D 3D copying	Assiale Axial	Rampa Ramping
■	■	□	◪	◪

Materiali Materials

ACCIAI STEELS	GHISE CAST IRON	ACCIAI INOSSIDABILI STAINLESS STEELS	SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM	LEGHE LEGGERE LIGHT ALLOYS	MATERIALI NON FERROSI NON FERROUS MATERIAL
■	■	◪	◪	□	□

CONSIGLIATO RECOMMENDED ■
ACCETTABILE ACCEPTABLE ◪
SCONSIGLIATO NOT RECOMMENDED □

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Frese per finitura

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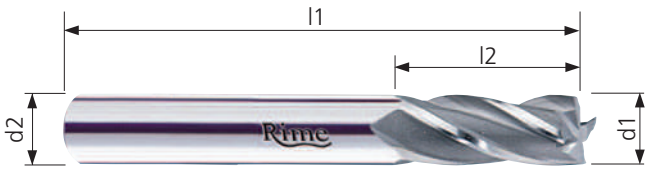
SERIE
G

FRESE PER FINITURA

NORM	TIPO-TYPE	Z4÷6
UNI 8244 DIN 844A ISO 1641/I	SHORT NORMAL LONG EXTRA-LONG	



HSS-E C08 | 90° | N | ≃30° | DIN 1835 A

NORMALE

G0

- FRESE PER FINITURA - Codolo cilindrico
- END MILLS - Straight shank
- FRAISES À CYLINDRES - Queue cylindrique
- SCHAFTFRÄSER - Zylinderschaft
- FRESAS CILINDRICAS FRONTALES - Mango cilindrico
- FRESAS FRONTAIS - Encabadouro cilindrico
- Фреза концевая для чистовой обработки. Цилиндрический хвостовик. Средняя серия

CODE	d1 mm js14	l2 mm	l1 mm	d2 mm h6	Z	Co 8% €
G0/01	2	7	51	6	4	•
G0/02	2.5	8	52	6	4	•
G0/03	3	8	52	6	4	•
G0/04	3.5	10	54	6	4	•
G0/05	4	11	55	6	4	•
G0/06	4.5	11	55	6	4	•
G0/07	5	13	57	6	4	•
G0/08	5.5	13	57	6	4	•
G0/09	6	13	57	6	4	•
G0/10	6.5	16	66	10	4	•
G0/11	7	16	66	10	4	•
G0/12	8	19	69	10	4	•
G0/13	9	19	69	10	4	•
G0/14	10	22	72	10	4	•
G0/15	11	22	79	12	4	•
G0/16	12	26	83	12	4	•
G0/17	13	26	83	12	4	•
G0/18	14	26	83	12	4	•
G0/19	15	32	92	16	4	•
G0/20	16	32	92	16	4	•
G0/21	17	32	92	16	4	•
G0/22	18	32	92	16	4	•
G0/23	19	38	104	20	4	•
G0/24	20	38	104	20	4	•
G0/25	22	38	104	20	4	•
G0/26	24	45	121	25	5	•
G0/27	25	45	121	25	5	•
G0/28	26	45	121	25	5	•
G0/29	28	45	121	25	5	•
G0/30	30	45	121	25	6	•
G0/31	32	53	133	32	6	•

THREADED DIN 1835 D — su richiesta / on request

Toll. reale sul Ø / *Real Tol. on Ø* +0 +0,03

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Suggerimenti Suggestion

SGROSSATURA - ROUGHING
SEMIFINITURA - SEMIFINISHING
FINITURA - FINISHING

Lavorazioni Workings

Apertura cava Slotting	Contornatura Side milling	Copia 3D 3D copying	Assiale Axial	Rampa Ramping
◪	■	□	◪	◪

Materiali Materials

ACCIAI STEELS	GHISE CAST IRON	ACCIAI INOSSIDABILI STAINLESS STEELS	SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM	LEGHE LEGGERE LIGHT ALLOYS	MATERIALI NON FERROSI NON FERROUS MATERIAL
■	■	◪	◪	□	□

CONSIGLIATO RECOMMENDED ■
ACCETTABILE ACCEPTABLE ◪
SCONSIGLIATO NOT RECOMMENDED □

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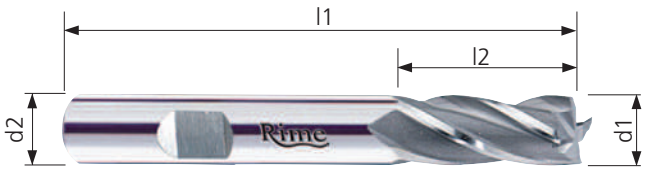
Rime

SERIE
G

FRESE PER FINITURA

NORM	TIPO-TYPE	Z4÷8
UNI 8248 DIN 844B ISO 1641/I	SHORT NORMAL LONG EXTRA-LONG	



HSS-E Co8 | 90° | N | ≃30° | DIN 1835 B

NORMALE

G2

- FRESE PER FINITURA - Due denti frontali taglienti fino al centro - Attacco Weldon
- END MILLS - Two end teeth cutting up to the centre - Weldon shank
- FRAISES À CYLINDRES - Deux dents bout coupantes jusq'au centre - Queue cylindrique Weldon
- SCHAFTFRÄSER - Zwei Schneiden mit Zentrumschnitt - Weldon Spannfläche
- FRESAS CILINDRICAS FRONTALES - Dos labios que cortan hasta el centro - Mango Weldon
- FRESAS FRONTAIS - Duas navalhas que cortam ao centro - Encabadouro Weldon
- Фреза концевая для чистовой обработки. Режущий торец. Хвостовик Weldon. Средняя серия

CODE (Co 8%)	d1 mm js14	l2 mm	l1 mm	d2 mm h6	Z	Co 8% €	SUPREME €
G2/01	2	7	51	6	4	•	•
G2/02	2.5	8	52	6	4	•	•
G2/03	3	8	52	6	4	•	•
G2/04	3.5	10	54	6	4	•	•
G2/05	4	11	55	6	4	•	•
G2/06	4.5	11	55	6	4	•	•
G2/07	5	13	57	6	4	•	•
G2/08	5.5	13	57	6	4	•	•
G2/09	6	13	57	6	4	•	•
G2/10	6.5	16	66	10	4	•	•
G2/11	7	16	66	10	4	•	•
G2/12	8	19	69	10	4	•	•
G2/12/1	8.5	19	69	10	4	•	•
G2/13	9	19	69	10	4	•	•
G2/14	10	22	72	10	4	•	•
G2/14/1	10.5	22	79	12	4	•	•
G2/15	11	22	79	12	4	•	•
G2/16	12	26	83	12	4	•	•
G2/17	13	26	83	12	4	•	•
G2/18	14	26	83	12	4	•	•
G2/19	15	32	92	16	4	•	•
G2/20	16	32	92	16	4	•	•
G2/21	17	32	92	16	4	•	•
G2/22	18	32	92	16	4	•	•
G2/23	19	38	104	20	4	•	•
G2/24	20	38	104	20	4	•	•
G2/25	22	38	104	20	4	•	•
G2/26	24	45	121	25	5	•	•
G2/27	25	45	121	25	5	•	•
G2/28	26	45	121	25	5	•	•
G2/29	28	45	121	25	5	•	•
G2/30	30	45	121	25	6	•	•
G2/31	32	53	133	32	6	•	•
G2/32	36	53	133	32	6	•	•
G2/33	40	63	143	32	8	•	•

Toll. reale sul Ø / *Real Tol. on Ø* +0 +0,03

Ulteriori diametri a richiesta
Other diameters on demand

COATING **SUPREME**

CODE G2/.../**S**

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SGROSSATURA - ROUGHING
SEMIFINITURA - SEMIFINISHING
FINITURA - FINISHING

Lavorazioni Workings

Apertura cava Slotting	Contornatura Side milling	Copia 3D 3D copying	Assiale Axial	Rampa Ramping
◪	■	□	◪	◪

Materiali Materials

ACCIAI STEELS	GHISE CAST IRON	ACCIAI INOSSIDABILI STAINLESS STEELS	SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM	LEGHE LEGGERE LIGHT ALLOYS	MATERIALI NON FERROSI NON FERROUS MATERIAL
■	■	◪	◪	□	□

CONSIGLIATO RECOMMENDED ■
ACCETTABILE ACCEPTABLE ◪
SCONSIGLIATO NOT RECOMMENDED □

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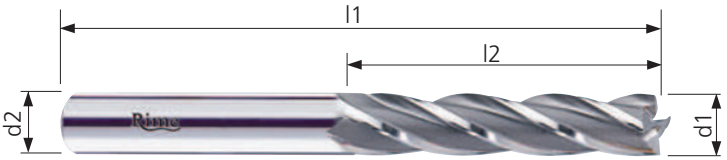
Rime

SERIE
G

FRESE PER FINITURA

NORM	TIPO-TYPE	Z4÷6
UNI 8245 DIN 844A ISO 1641/I	SHORT NORMAL LONG EXTRA-LONG	



HSS-E Co8 | 90° | N | ≃ 30° | DIN 1835 A

LUNGA

G3

- FRESE PER FINITURA - Codolo cilindrico
  END MILLS - Straight shank
- FRAISES À CYLINDRES - Queue cylindrique
  SCHAFTFRÄSER - Zylinderschaft
- FRESAS CILINDRICAS FRONTALES - Mango cilindrico
  FRESAS CILINDRICAS FRONTAIS - Encabadouro cilindrico
  Фреза концевая для чистовой обработки. Цилиндрический хвостовик. Удлиненная серия

CODE	d1 mm js14	l2 mm	l1 mm	d2 mm h6	Z	Co 8% €
G3/01	2	10	54	6	4	•
G3/02	3	12	56	6	4	•
G3/03	4	19	63	6	4	•
G3/04	5	24	68	6	4	•
G3/05	6	24	68	6	4	•
G3/06	7	30	80	10	4	•
G3/07	8	38	88	10	4	•
G3/08	10	45	95	10	4	•
G3/09	12	53	110	12	4	•
G3/10	14	53	110	12	4	•
G3/10/1	15	63	123	16	4	•
G3/11	16	63	123	16	4	•
G3/12	18	63	123	16	4	•
G3/13	20	75	141	20	4	•
G3/14	22	75	141	20	4	•
G3/15	24	90	166	25	5	•
G3/16	25	90	166	25	5	•
G3/17	26	90	166	25	5	•
G3/18	28	90	166	25	5	•
G3/19	30	90	166	25	6	•
G3/20	32	106	186	32	6	•

THREADED DIN 1835 D — su richiesta / on request

Toll. reale sul Ø / *Real Tol. on Ø* +0 +0,03

Ulteriori diametri a richiesta
Other diameters on demand

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Suggerimenti Suggestion

SGROSSATURA - ROUGHING
SEMIFINITURA - SEMIFINISHING
FINITURA - FINISHING

Lavorazioni Workings

Apertura cava Slotting	Contornatura Side milling	Copia 3D 3D copying	Assiale Axial	Rampa Ramping
◪	■	□	◪	◪

Materiali Materials

ACCIAI STEELS	GHISE CAST IRON	ACCIAI INOSSIDABILI STAINLESS STEELS	SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM	LEGHE LEGGERE LIGHT ALLOYS	MATERIALI NON FERROSI NON FERROUS MATERIAL
■	■	◪	◪	□	□

CONSIGLIATO RECOMMENDED ■
ACCETTABILE ACCEPTABLE ◪
SCONSIGLIATO NOT RECOMMENDED □

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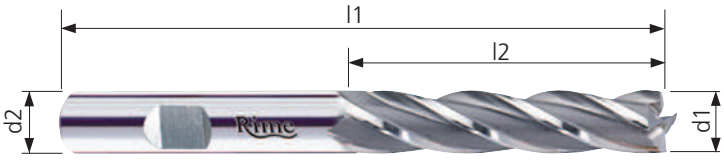
Rime

SERIE
G

FRESE PER FINITURA

NORM	TIPO-TYPE	Z4÷6
UNI 8249 DIN 844B ISO 1641/I	SHORT NORMAL LONG EXTRA-LONG	



HSS-E Co8 | 90° | N | ≃30° | DIN 1835 B

LUNGA

G5

- FRESE PER FINITURA - Due denti frontali taglienti fino al centro - Attacco Weldon
- END MILLS - Two end teeth cutting up to the centre - Weldon shank
- FRAISES À CYLINDRES - Deux dents bout coupantes jusq'au centre - Queue cylindrique Weldon
- SCHAFTFRÄSER - Zwei Schneiden mit Zentrumschnitt - Weldon Spannfläche
- FRESAS CILINDRICAS FRONTALES - Dos labios que cortan hasta el centro - Mango Weldon
- FRESAS CILINDRICAS FRONTAIS - Quatro navalhas que cortam ao centro longa - Encabadouro Weldon
- Фреза концевая для чистовой обработки. Режущий торец. Хвостовик Weldon. Удлиненная серия

CODE (Co 8%)	d1 mm js14	l2 mm	l1 mm	d2 mm h6	Z	Co 8% €	SUPREME €	
G5/01	2	10	54	6	4	•	•	
G5/02	3	12	56	6	4	•	•	
G5/03	4	19	63	6	4	•	•	
G5/04	5	24	68	6	4	•	•	
G5/05	6	24	68	6	4	•	•	
G5/06	7	30	80	10	4	•	•	
G5/07	8	38	88	10	4	•	•	
G5/07/1	9	45	95	10	4	•	•	
G5/08	10	45	95	10	4	•	•	
G5/08/1	11	53	110	12	4	•	•	
G5/09	12	53	110	12	4	•	•	
G5/09/1	13	53	110	12	4	•	•	
G5/10	14	53	110	12	4	•	•	
G5/10/1	15	63	123	16	4	•	•	
G5/11	16	63	123	16	4	•	•	
G5/11/1	17	63	123	16	4	•	•	
G5/12	18	63	123	16	4	•	•	
G5/13	20	75	141	20	4	•	•	
G5/14	22	75	141	20	4	•	•	
G5/15	24	90	166	25	5	•	•	
G5/16	25	90	166	25	5	•	•	
G5/17	26	90	166	25	5	•	•	
G5/18	28	90	166	25	5	•	•	
G5/19	30	90	166	25	6	•	•	
G5/20	32	106	186	32	6	•	•	

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Toll. reale sul Ø / *Real Tol. on Ø* +0 +0,03

Ulteriori diametri a richiesta
Other diameters on demand

COATING **SUPREME**

CODE G5/.../**S**

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Suggerimenti Suggestion

SGROSSATURA - ROUGHING
SEMIFINITURA - SEMIFINISHING
FINITURA - FINISHING

Lavorazioni Workings

Apertura cava Slotting	Contornatura Side milling	Copia 3D 3D copying	Assiale Axial	Rampa Ramping
◪	■	□	◪	◪

Materiali Materials

ACCIAI STEELS	GHISE CAST IRON	ACCIAI INOSSIDABILI STAINLESS STEELS	SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM	LEGHE LEGGERE LIGHT ALLOYS	MATERIALI NON FERROSI NON FERROUS MATERIAL
■	■	◪	◪	□	□

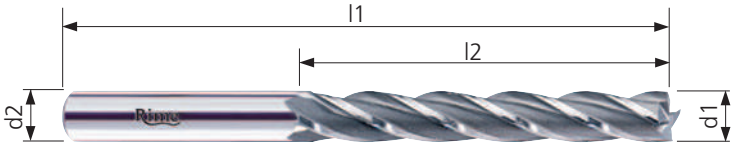
CONSIGLIATO RECOMMENDED ■
ACCETTABILE ACCEPTABLE ◪
SCONSIGLIATO NOT RECOMMENDED □

Rime

SERIE
G

FRESE PER FINITURA

NORM | TIPO-TYPE | Z4



HSS-E Co8 | 90° | N | ≃30° | DIN 1835 A

EXTRA-LUNGA

G6

- FRESE PER FINITURA - Due denti frontali taglienti fino al centro - Codolo cilindrico
- END MILLS - Two end teeth cutting up to the centre - Straight shank
- FRAISES À CYLINDRES - Deux dents bout coupantes jusq'au centre - Queue cylindrique
- SCHAFTFRÄSER - Zwei Schneiden mit Zentrumschnitt - Zylinderschaft
- FRESAS CILINDRICAS FRONTALES - Dos labios que cortan hasta el centro - Mango cilindrico
- FRESAS CILINDRICAS FRONTAIS - Quatro navalhas que cortam ao centro extra longa - Encabadouro cilindrico
- Фреза концевая для чистовой обработки. Режущий торец. Цилиндрический хвостовик. Ультрадлинная серия

CODE	d1 mm js14	l2 mm	l1 mm	d2 mm h6	Z	Co 8% €
G6/01	6	56	106	10	4	•
G6/02	8	63	113	10	4	•
G6/03	10	70	120	10	4	•
G6/04	12	80	137	12	4	•
G6/05	14	80	137	12	4	•
G6/06	16	90	150	16	4	•
G6/07	18	100	166	20	4	•
G6/08	20	110	176	20	4	•
G6/09	22	110	176	20	4	•

Toll. reale sul Ø / *Real Tol. on Ø* +0 +0,03

Ulteriori diametri a richiesta
Other diameters on demand

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Suggerimenti Suggestion

SGROSSATURA - ROUGHING ■□□□□
SEMIFINITURA - SEMIFINISHING ■□□□□
FINITURA - FINISHING ■■■■■

Lavorazioni Workings

Apertura cava Slotting	Contornatura Side milling	Copia 3D 3D copying	Assiale Axial	Rampa Ramping
◪	■	□	◪	□

Materiali Materials

ACCIAI STEELS	GHISE CAST IRON	ACCIAI INOSSIDABILI STAINLESS STEELS	SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM	LEGHE LEGGERE LIGHT ALLOYS	MATERIALI NON FERROSI NON FERROUS MATERIAL
■	■	◪	◪	□	□

CONSIGLIATO RECOMMENDED ■
ACCETTABILE ACCEPTABLE ◪
SCONSIGLIATO NOT RECOMMENDED □

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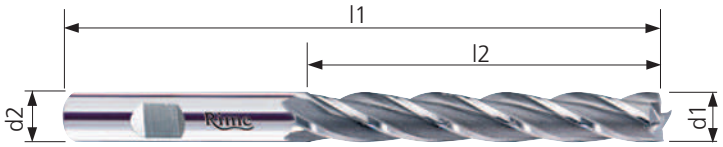
Rime

SERIE
G

FRESE PER FINITURA

NORM | TIPO-TYPE | Z4



HSS-E Co8 | 90° | N | ≃30° | DIN 1835 B

EXTRA-LUNGA

G7

- FRESE PER FINITURA - Due denti frontali tagienti fino al centro - Attacco Weldon
- END MILLS - Two end teeth cutting up to the centre - Weldon shank
- FRAISES À CYLINDRES - Deux dents bout coupantes jusq'au centre - Queue cylindrique Weldon
- SCHAFTFRÄSER - Zwei Schneiden mit Zentrumschnitt - Weldon Spannfläche
- FRESAS CILINDRICAS FRONTALES - Dos labios que cortan hasta el centro - Mango Weldon
- FRESAS CILINDRICAS FRONTAIS - Quatro navalhas que cortam ao centro extra longa - Encabadouro Weldon
- Фреза концевая для чистовой обработки. Режущий торец. Хвостовик Weldon. Ультрадлинная серия

CODE	d1 mm js14	l2 mm	l1 mm	d2 mm h6	Z	Co 8% €
G7/01	6	56	106	10	4	•
G7/02	8	63	113	10	4	•
G7/03	10	70	120	10	4	•
G7/04	12	80	137	12	4	•
G7/05	14	80	137	12	4	•
G7/06	16	90	150	16	4	•
G7/07	18	100	166	20	4	•
G7/08	20	110	176	20	4	•
G7/09	22	110	176	20	4	•

Toll. reale sul Ø
Real Tol. on Ø +0 +0,03

Ulteriori diametri a richiesta
Other diameters on demand

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Suggerimenti Suggestion

SGROSSATURA - ROUGHING ■□□□□
SEMIFINITURA - SEMIFINISHING ■□□□□
FINITURA - FINISHING ■■■■■

Lavorazioni Workings

Apertura cava Slotting	Contornatura Side milling	Copia 3D 3D copying	Assiale Axial	Rampa Ramping
◪	■	□	◪	□

Materiali Materials

ACCIAI STEELS	GHISE CAST IRON	ACCIAI INOSSIDABILI STAINLESS STEELS	SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM	LEGHE LEGGERE LIGHT ALLOYS	MATERIALI NON FERROSI NON FERROUS MATERIAL
■	■	◪	◪	□	□

CONSIGLIATO RECOMMENDED ■
ACCETTABILE ACCEPTABLE ◪
SCONSIGLIATO NOT RECOMMENDED □

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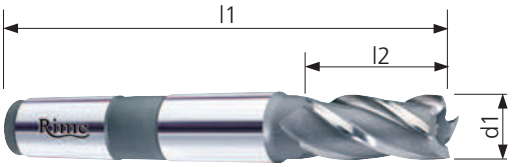
Rime

SERIE
G

FRESE PER FINITURA

NORM	TIPO-TYPE	Z4÷8
UNI 8250 DIN 845B ISO 1641/II	SHORT NORMAL LONG EXTRA-LONG	



HSS-E Co8 | 90° | N | ≃30° | DIN 228 A

NORMALE

G8

- FRESE PER FINITURA - Codolo conico Morse con foro filettato
- END MILLS - Morse taper shank
- FRAISES À CYLINDRES - Queue au cône Morse à trou fileté
- SCHAFTFRÄSER - Morsekegelschaft und Anzugsgewinde
- FRESAS CILINDRICAS FRONTALES - Mango conico Morse con taladro roscado
- FRESAS CILINDRICAS FRONTAIS - Quatro navalhas sem corte ao centro normal - Encabadouro Morse con taladro roscado
- Фреза концевая для чистовой обработки. Хвостовик конус Морзе с резьбой. Средняя серия

CODE (Co 8%)	d1 mm js14	l2 mm	l1 mm	CM-MK	Z	Co 8% €	SUPREME €	
G8/01	16	32	117	2	4	•	•	
G8/02	18	32	117	2	4	•	•	
G8/03	20	38	140	3	4	•	•	
G8/04	22	38	140	3	4	•	•	
G8/05	24	45	147	3	5	•	•	
G8/06	25	45	147	3	5	•	•	
G8/07	26	45	147	3	5	•	•	
G8/08	28	45	147	3	5	•	•	
G8/09	30	53	155	3	6	•	•	
G8/10	32	53	178	4	6	•	•	
G8/11	34	53	178	4	6	•	•	
G8/12	35	53	178	4	6	•	•	
G8/13	36	53	178	4	6	•	•	
G8/14	38	63	188	4	6	•	•	
G8/15	40	63	188	4	8	•	•	
G8/16	45	63	188	4	8	•	•	
G8/17	50	75	233	5	8	•	•	

Toll. reale sul Ø *Real Tol. on Ø* +0 +0,03

Ulteriori diametri a richiesta
Other diameters on demand

COATING **SUPREME**

CODE G8/.../**S**

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Suggerimenti Suggestion

SGROSSATURA - ROUGHING
SEMIFINITURA - SEMIFINISHING
FINITURA - FINISHING

Lavorazioni Workings

Apertura cava Slotting	Contornatura Side milling	Copia 3D 3D copying	Assiale Axial	Rampa Ramping
◪	■	□	□	□

Materiali Materials

ACCIAI STEELS	GHISE CAST IRON	ACCIAI INOSSIDABILI STAINLESS STEELS	SUPER LEGHE - TITANIO SUPERALLOYS - TITANIUM	LEGHE LEGGERE LIGHT ALLOYS	MATERIALI NON FERROSI NON FERROUS MATERIAL
■	■	◪	◪	□	□

CONSIGLIATO RECOMMENDED ■
ACCETTABILE ACCEPTABLE ◪
SCONSIGLIATO NOT RECOMMENDED □

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