

RM-AL2101

Rime

advanced tools production

NOVITÀ

ALU2000 *line*

DESIGN & *technology*

- minori vibrazioni
less vibrations
- migliore evacuazione del truciolo
excellent evacuation of the chip
- migliore finitura
excellent surface finishing
- maggiore produttività
great productivity
- più vita dell'utensile
improved tool life

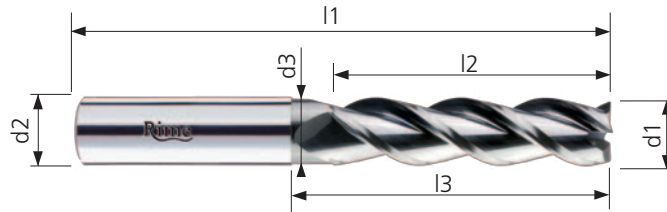
Frese in metallo duro integrale
per alluminio, rame, leghe leggere
e materie plastiche

High performance micrograin carbide
end mills for aluminium, copper,
light alloys and plastic material

ALU2000 *line*

FRESE A TRE DENTI A DIVISIONE IRREGOLARE LUNGHE ED EXTRALUNGHE

THREE FLUTES END MILLS WITH IRREGULAR DIVISION



NORM	TIPO-TYPE	Z3	Z4
STANDARD Rime	SHORT NORMAL LONG EXTRA-LONG		
MICRO GRAIN	45°		Lappato Polished
W	40°	IRREGULAR y1 y2 y3	DIN 6535 HA

LUNGA EXTRA-LUNGA

HM90L	CODE (K)	d1 mm h10	l2 mm	l1 mm	l3 mm	d3 mm	d2 mmh6	45° mm	Z	K €	ALU PRODIGE €	ALU DIAMANT €
new												
	HM90L/03	3	15	65	20	2,9	6	0,05	3	-	-	-
	HM90L/04	4	20	65	25	3,8	6	0,05	3	-	-	-
	HM90L/05	5	25	65	28	4,8	6	0,05	3	-	-	-
	HM90L/06	6	32	80	42	5,8	6	0,075	3	-	-	-
	HM90L/08	8	40	100	50	7,7	8	0,1	3	-	-	-
	HM90L/10	10	42	100	52	9,6	10	0,1	3	-	-	-
	HM90L/12	12	50	120	60	11,5	12	0,1	3	-	-	-
	HM90L/16	16	65	125	75	15,4	16	0,15	3	-	-	-

HM90XL	CODE (K)	d1 mm h10	l2 mm	l1 mm	l3 mm	d3 mm	d2 mmh6	45° mm	Z	K €	ALU PRODIGE €	ALU DIAMANT €
new												
	HM90XL/10	10	55	120	65	9,6	10	0,1	3	-	-	-
	HM90XL/12	12	70	150	80	11,5	12	0,1	3	-	-	-
	HM90XL/16	16	80	150	90	15,4	16	0,15	4	-	-	-
	HM90XL/20	20	85	150	95	19,2	20	0,15	4	-	-	-

COATING ALU PRODIGE



CODE HM90.../.../AP

COATING ALU DIAMANT

SU RICHIESTA ON REQUEST



CODE HM90.../.../AD

WELDON su richiesta DIN 6535 HB on request

Suggerimenti Suggestion

SGROSSATURA - ROUGHING

FINITURA - FINISHING

Lavorazioni Workings

Apertura cava Slotting	Contornatura Side milling	Copia 3D 3D copy	Trocoidale Trochoidal	Assiale Axial	Rampa Diagonal plung.

Materiali Materials

ACCIAI <500 N/mm ² STEELS <500 N/mm ²	ACCIAI INOSSIDABILI STAINLESS STEELS	OTTONE - BRONZO BRASS - BRONZE	RAME COPPER	ALLUMINIO PURO UNALLOYED ALUMINIUM	LEGHE DI ALLUMINIO ALUMINIUM ALLOYS	MATERIALI PLASTICI PLASTIC MATERIAL	MATERIALI COMPOSITI COMPOSITE MATERIAL
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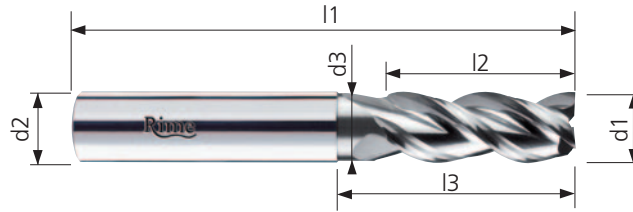
CONSIGLIATO RECOMMENDED
ACCETTABILE ACCEPTABLE
SCONSIGLIATO NOT RECOMMENDED

ALU2000 *line*

FRESE A TRE DENTI A DIVISIONE IRREGOLARE ED ELICA VARIABLE PER ASPORTAZIONI GRAVOSE

THREE FLUTES END MILLS

- Irregular division and helix flutes
- For heavy stock removal



NORM STANDARD Rime	TIPO-TYPE SHORT NORMAL LONG EXTRALONG	Z3	Z3-IC
MICRO GRAIN	90°	40° 41° 42°	Lappato Polished
W	IRREGULAR y1 y2 y3		DIN 6535 HA

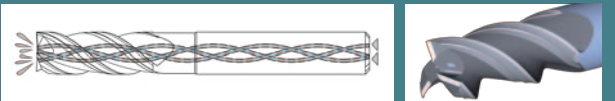
NORMALE

HM90SP	CODE (K)	d1 mm h10	l2 mm	l1 mm	l3 mm	d3 mm	d2 mmh6	Z	K €	ALU PRODIGE €	ALU DIAMANT €
new											
	HM90SP/03	3	10	58	15	2,9	6	3	-	-	
	HM90SP/04	4	12	58	17	3,9	6	3	-	-	
	HM90SP/05	5	15	58	20	4,8	6	3	-	-	
	HM90SP/06	6	18	58	23	5,8	6	3	-	-	
	HM90SP/08	8	24	64	30	7,7	8	3	-	-	
	HM90SP/10	10	28	72	35	9,6	10	3	-	-	
	HM90SP/12	12	32	83	40	11,5	12	3	-	-	
	HM90SP/14	14	34	83	42	13,5	14	3	-	-	
	HM90SP/16	16	38	93	46	15,4	16	3	-	-	
	HM90SP/20	20	45	104	55	19,2	20	3	-	-	

HM90SP-IC	CODE (K)	d1 mm h10	l2 mm	l1 mm	l3 mm	d3 mm	d2 mmh6	Z	K €	ALU PRODIGE €	ALU DIAMANT €
new											
	HM90SP-IC/06	6	18	65	28	5,8	6	3	-	-	
	HM90SP-IC/08	8	24	75	34	7,7	8	3	-	-	
	HM90SP-IC/10	10	28	80	38	9,6	10	3	-	-	
	HM90SP-IC/12	12	32	94	42	11,5	12	3	-	-	
	HM90SP-IC/16	16	38	100	50	15,4	16	3	-	-	

HM90SP-IC

INTERNAL COOLANT HOLES



COATING ALU PRODIGE



CODE HM90SP.../.../AP

COATING ALU DIAMANT

SU RICHIESTA ON REQUEST



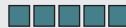
CODE HM90SP.../.../AD



WELDON su richiesta on request
DIN 6535 HB

Suggerimenti Suggestion

SGROSSATURA - ROUGHING



FINITURA - FINISHING



Lavorazioni Workings



Apertura cava Slotting



Contornatura Side milling



Copia 3D 3D copy



Trocoidale Trochoidal



Assiale Axial



Rampa Diagonal plung

Materiali Materials

ACCIAI <500 N/mm²
STEELS <500 N/mm²



ACCIAI INOSSIDABILI
STAINLESS STEELS



OTTONE - BRONZO
BRASS - BRONZE



RAME
COPPER



ALLUMINIO PURO
UNALLOYED ALUMINIUM



LEGHE DI ALLUMINIO
ALUMINIUM ALLOYS



MATERIALI PLASTICI
PLASTIC MATERIAL



MATERIALI COMPOSITI
COMPOSITE MATERIAL



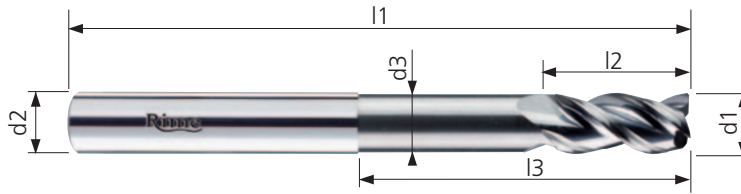
CONSIGLIATO RECOMMENDED
ACCETTABILE ACCEPTABLE
SCONSIGLIATO NOT RECOMMENDED



ALU2000 *line*

FRESE A TRE DENTI A DIVISIONE IRREGOLARE ED ELICA VARIABILE, SERIE LUNGA, PER ASPORTAZIONI GRAVOSE

THREE FLUTES END MILLS
LONG SERIE
• Irregular division and helix flutes
• For heavy stock removal



NORM STANDARD Rime	TIPO-TYPE SHORT NORMAL LONG EXTRA-LONG	Z3	Z3-IC
MICRO GRAIN	90°	40° 41° 42°	Lappato Polished
W	IRREGULAR y1 y2 y3		DIN 6535 HA

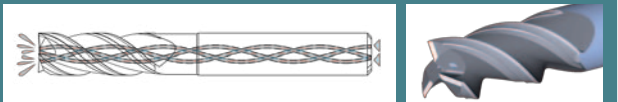
LUNGA

HM90SPL CODE (K)	d1 mm h10	l2 mm	l1 mm	l3 mm	d3 mm	d2 mmh6	Z	K €	ALU PRODIGE €	ALU DIAMANT €
new HM90SPL/04	4	9	65	25	3,9	6	3	-	-	
HM90SPL/05	5	11	78	35	4,8	6	3	-	-	
HM90SPL/06	6	13	78	40	5,8	6	3	-	-	
HM90SPL/08	8	19	100	50	7,7	8	3	-	-	
HM90SPL/10	10	22	100	55	9,6	10	3	-	-	
HM90SPL/12	12	26	120	65	11,5	12	3	-	-	
HM90SPL/16	16	32	125	70	15	16	3	-	-	
HM90SPL/20	20	36	150	80	19	20	3	-	-	

HM90SPL-IC CODE (K)	d1 mm h10	l2 mm	l1 mm	l3 mm	d3 mm	d2 mmh6	Z	K €	ALU PRODIGE €	ALU DIAMANT €
new HM90SPL-IC/06	6	13	78	40	5,8	6	3	-	-	
HM90SPL-IC/08	8	19	100	50	7,7	8	3	-	-	
HM90SPL-IC/10	10	22	100	55	9,6	10	3	-	-	
HM90SPL-IC/12	12	26	120	65	11,5	12	3	-	-	

HM90SPL-IC

INTERNAL COOLANT HOLES



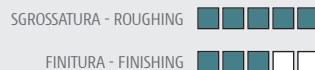
COATING ALU PRODIGE



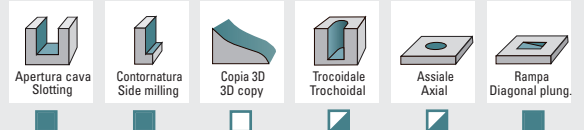
COATING ALU DIAMANT



Suggerimenti Suggestion



Lavorazioni Workings



Materiali Materials

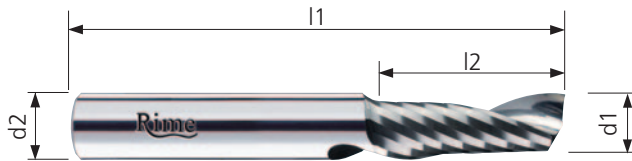
ACCIAI <500 N/mm ² STEELS <500 N/mm ²	ACCIAI INOSSIDABILI STAINLESS STEELS	OTTONE - BRONZO BRASS - BRONZE	RAME COPPER	ALLUMINIO PURO UNALLOYED ALUMINIUM	LEGHE DI ALLUMINIO ALUMINIUM ALLOYS	MATERIALI PLASTICI PLASTIC MATERIAL	MATERIALI COMPOSITI COMPOSITE MATERIAL
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CONSIGLIATO RECOMMENDED
ACCETTABILE ACCEPTABLE
SCONSIGLIATO NOT RECOMMENDED

ALU2000 *line*

FRESE ELICOIDALI ELICOIDALI MONOTAGLIANTE LUNGHE ED EXTRALUNGHE

ONE FLUTE END MILLS LONG AND EXTRALONG



NORM	TIPO-TYPE	Z1
STANDARD Rime	SHORT NORMAL LONG EXTRALONG	

MICRO GRAIN	90°		
W	≈ 30°	Lappato Polished	DIN 6535 HA

HM99L	CODE (K)	d1 mm h10	l2 mm	l1 mm	d2 mm h6	Z	K	ALU PRODIGE	DL PLUS
new							€	€	€
	HM99L/02	2	15	52	2	1	-	-	-
	HM99L/03	3	18	55	3	1	-	-	-
	HM99L/04	4	22	60	4	1	-	-	-
	HM99L/05	5	24	60	5	1	-	-	-
	HM99L/06	6	30	80	6	1	-	-	-
	HM99L/08	8	32	80	8	1	-	-	-
	HM99L/10	10	34	80	10	1	-	-	-
	HM99L/12	12	42	100	12	1	-	-	-

HM99XL	CODE (K)	d1 mm h10	l2 mm	l1 mm	d2 mm h6	Z	K	ALU PRODIGE	DL PLUS
new							€	€	€
	HM99XL/03	3	24	70	3	1	-	-	-
	HM99XL/04	4	30	75	4	1	-	-	-
	HM99XL/05	5	32	80	5	1	-	-	-
	HM99XL/06	6	40	100	6	1	-	-	-
	HM99XL/08	8	42	100	8	1	-	-	-
	HM99XL/10	10	45	100	10	1	-	-	-
	HM99XL/12	12	52	120	12	1	-	-	-
	HM99XL/16	16	55	125	16	1	-	-	-

HM99XXL	CODE (K)	d1 mm h10	l2 mm	l1 mm	d2 mm h6	Z	K	ALU PRODIGE	DL PLUS
new							€	€	€
	HM99XXL/06	6	20	100	6	1	-	-	-
	HM99XXL/08	8	25	120	8	1	-	-	-
	HM99XXL/10	10	28	120	10	1	-	-	-
	HM99XXL/12	12	30	150	12	1	-	-	-

COATING DL PLUS SU RICHIESTA ON REQUEST



COATING ALU PRODIGE



Suggerimenti Suggestion

SGROSSATURA - ROUGHING

FINITURA - FINISHING

Lavorazioni Workings

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Materiali Materials

OTTONE - BRONZO BRASS - BRONZE	RAME COPPER	ALLUMINIO PURO UNALLOYED ALUMINIUM	LEGHE DI ALLUMINIO ALUMINIUM ALLOYS	MATERIALI PLASTICI PLASTIC MATERIAL	ACRILICI ACRYLIC	MATERIALI COMPOSITI COMPOSITE MATERIAL	LEGNO WOOD
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CONSIGLIATO RECOMMENDED

ACCETTABILE ACCEPTABLE

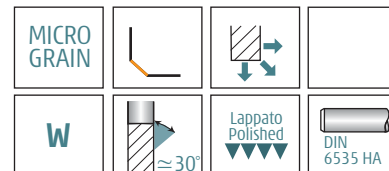
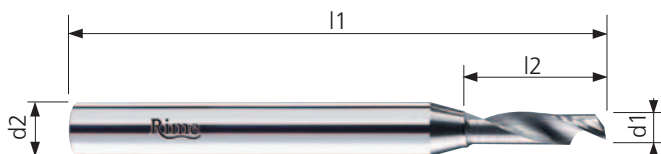
SCONSIGLIATO NOT RECOMMENDED

ALU2000 *line*

FRESE ELICOIDALI MONOTAGLIANTE
ELEVATE ASPORTAZIONI - CODOLO RINFORZATO

ONE FLUTE
END MILLS

- Reinforced shank
- For heavy stock removal



HM100C	CODE (K)	d1 mm h10	l2 mm	l1 mm	d2 mm h6	Z	K €	ALU DIAMANT €
new	HM100C/01	1	3	40	6	1	-	-
	HM100C/015	1,5	4	40	6	1	-	-
	HM100C/02	2	6	50	6	1	-	-
	HM100C/03	3	7	50	6	1	-	-
	HM100C/04	4	8	50	6	1	-	-
	HM100C/05	5	10	50	6	1	-	-
	HM100C/06	6	12	50	6	1	-	-
	HM100C/08	8	15	60	8	1	-	-
	HM100C/10	10	18	67	10	1	-	-

HM100	CODE (K)	d1 mm h10	l2 mm	l1 mm	d2 mm h6	Z	K €	ALU DIAMANT €
new	HM100/01	1	5	50	6	1	-	-
	HM100/015	1,5	7	50	6	1	-	-
	HM100/02	2	10	55	6	1	-	-
	HM100/03	3	12	55	6	1	-	-
	HM100/04	4	14	57	6	1	-	-
	HM100/05	5	16	57	6	1	-	-
	HM100/06	6	20	57	6	1	-	-
	HM100/08	8	22	63	8	1	-	-
	HM100/10	10	25	73	10	1	-	-

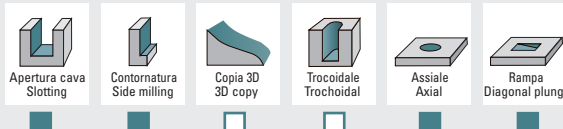
COATING ALU DIAMANT SU RICHIESTA ON REQUEST

CODE HM100C - HM100/.../AD

Suggerimenti Suggestion

SGROSSATURA - ROUGHING
FINITURA - FINISHING

Lavorazioni Workings



Materiali Materials

OTTONE - BRONZO
BRASS - BRONZE

RAME + ORO
COPPER + GOLD

ALLUMINIO PURO
UNALLOYED ALUMINIUM

LEGHE DI ALLUMINIO
ALUMINIUM ALLOYS

MATERIALI PLASTICI
PLASTIC MATERIAL

ACRILICI
ACRYLIC

MATERIALI COMPOSITI
COMPOSITE MATERIAL

LEGNO
WOOD

CONSIGLIATO RECOMMENDED
ACCETTABILE ACCEPTABLE
SCONSIGLIATO NOT RECOMMENDED



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