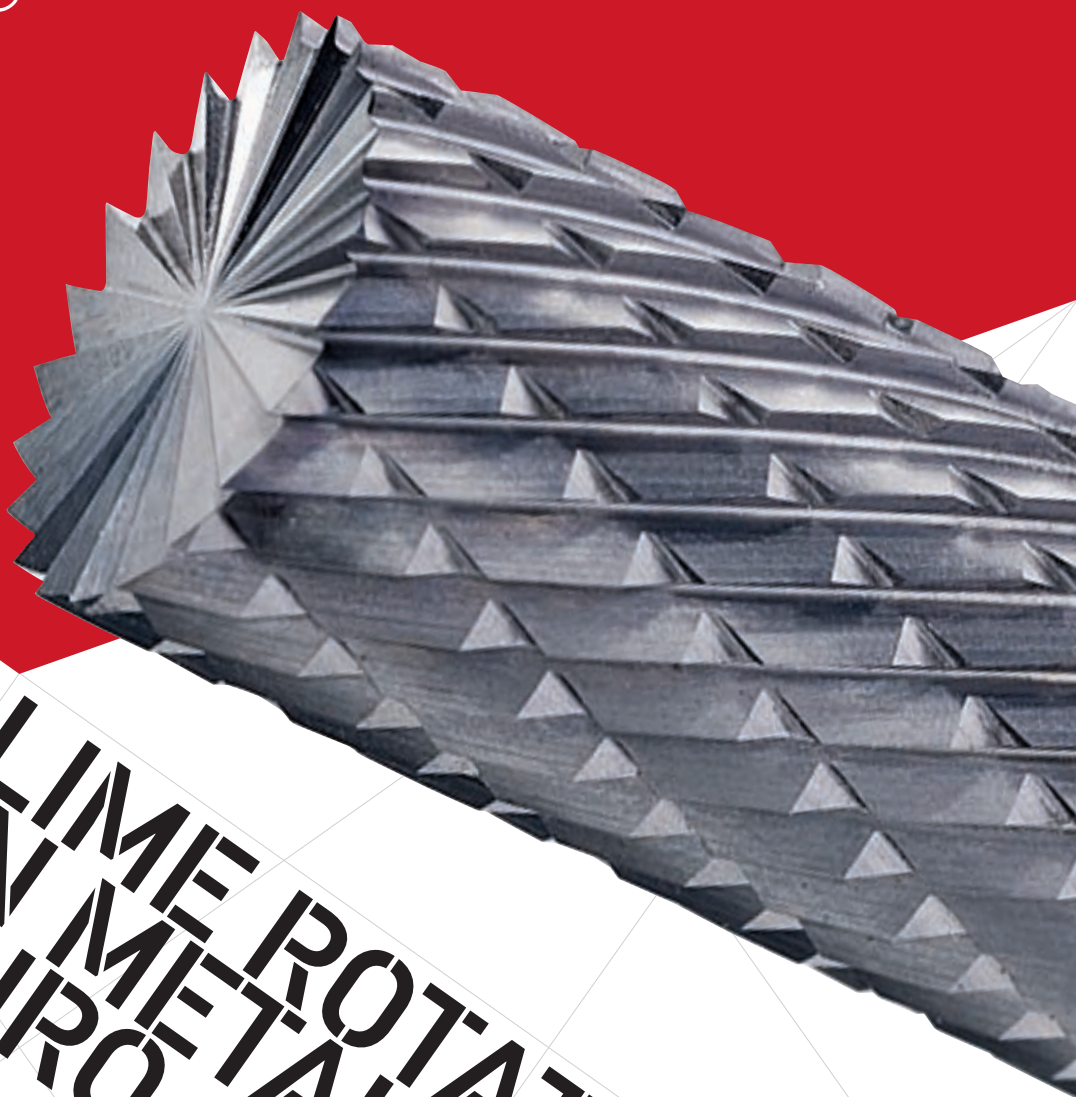


Applicazioni tradizionali e per robotica

SEFCARBIDE



LIME ROTATIVE
IN METALLO
DURO



La precisione dal 1948.

Dalla ricostruzione del dopoguerra all'applicazione diffusa dei sistemi informatici: un'ascesa tecnologica che ha profondamente modificato i costumi e i metodi della produzione industriale nel nostro paese.

Oltre sessant'anni, due generazioni si sono succedute alla guida della Sef, ma la matrice che ha segnato lo sviluppo costante della nostra società è sempre la medesima: il piacere di cavalcare un'evoluzione straordinaria, alla ricerca incessante di nuove tecnologie per l'immediato futuro.

Con una passione che ci ha consentito di svolgere un lavoro davvero importante: non tanto in termini di volume,



ma certamente per la qualità dei servizi offerti e per lo sforzo necessario a mantenere un livello di specializzazione sempre al passo con i tempi.

Al di là del gratificante successo aziendale, la nostra più grande soddisfazione si traduce nell'aumento qualitativo del prodotto dei clienti e nella maggiore competitività della loro produzione.

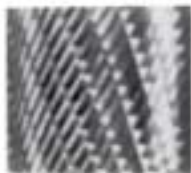
Tanta dedizione ed operosità si confrontano oggi con un nuovo impegno: quello di trasferire ai più giovani un prezioso patrimonio fatto di scuola tecnica e partecipazione umana, fianco a fianco con il cliente per la soluzione ottimale delle più diverse problematiche inerenti ai processi produttivi.



Lime rotative in metallo duro

Le lime rotative riportate in questo catalogo ripetono le sigle unificate SCTI

Taglio 1
doppio



Taglio universale il più impiegato su tutti i materiali.
Deriva dal taglio 2 e dà un buon controllo del truciolo.

Taglio 2
standard



Taglio universale, adatto per tutti i materiali.

Taglio 3
Rompitruciolo



Deriva dal taglio 2 con linee rompitrucciolo quasi orizzontali.
Controlla meglio il truciolo che il taglio 2.

Taglio 4
Diamante



È una alternativa al taglio 1 ma più costosa a prodursi.
Da impiegarsi su materiali duri e tenaci. Produce un truciolo a forma di polvere.

Taglio 5
Fine



Taglio universale adatto per tutte le buone finiture.

Taglio 6
Grosso



Da impiegarsi su getti e carpenteria pesante.

Taglio MNF
ALU



Da impiegarsi su leghe non ferrose e plastiche.

Le sigle SCTI indicate sul catalogo definiscono la forma e le dimensioni delle lime. Occorre specificare il tipo di taglio. Forniamo a richiesta il numero di taglianti destri e sinistri in funzione del tipo di taglio scelto.

SCHEDA TECNICA, CHIMICA E FISICA DELLE LIME ROTATIVE

Metallo duro: H10F micrograna
 Collaudo di fabbricazione: ISO 3327
 Composizione: 10% Co 90% WC
 Resistenza alla frattura: 13MN/mmq.

Modulo di Young: E 580KN/mmq
 Resistenza alla compressione: 6300N/mmq
 Controllo di produzione: SPC
 Certificazione: ISO 9002

Raccomandazioni di impiego:

L'impiego di utensili rotanti ed in particolare l'impiego delle lime rotative, prevede che l'operatore indossi occhiali protettivi e vestiti adeguati. L'utensile deve essere ben fissato nella pinza con sporgenza della parte cilindrica del gambo per il solo necessario operativo.

Scelta dell'utensile:

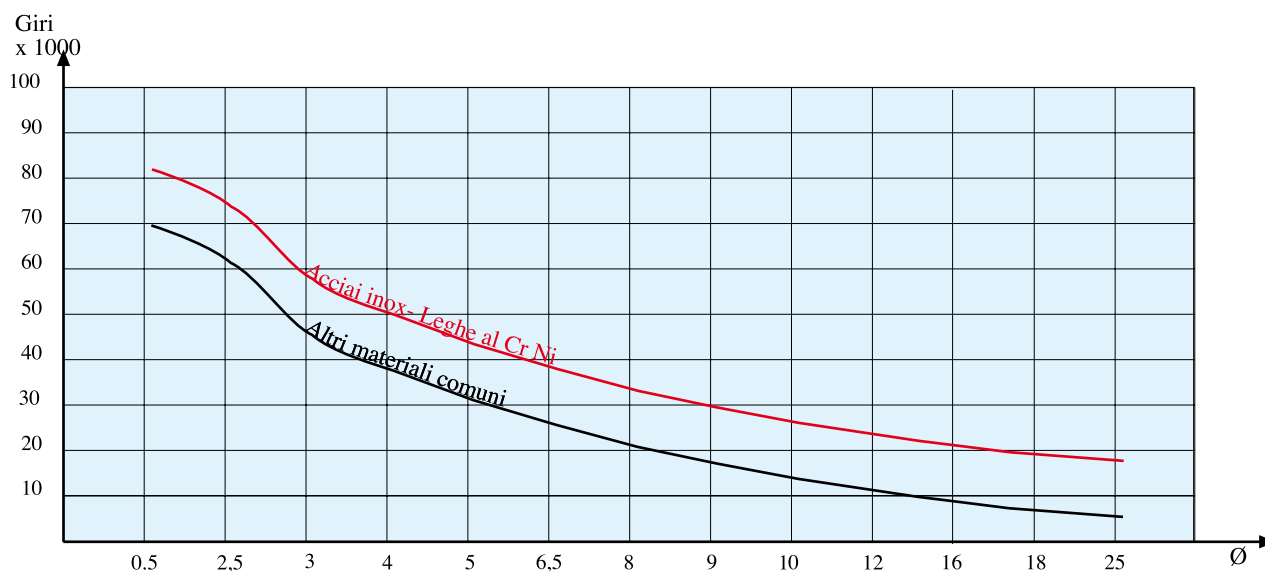
Materiale	Taglio doppio	Taglio semplice	Rompi-truciolo	Taglio diamante	Taglio largo	Materiale	Taglio doppio	Taglio semplice	Rompi-truciolo	Taglio diamante	Taglio largo
Acciaio	🍏	🍏	🍏	🍏		Zinco					🍏
Inox	🍏	🍏	🍏			Bronzo	🍏	🍏	🍏		🍏
Superleghe	🍏	🍏	🍏			Fibre carbonio					🍏
Saldature acciaio	🍏	🍏	🍏			Fibra di vetro				🍏	
Titanio	🍏	🍏	🍏			Plastiche					🍏

Per le leghe di alluminio impiegare il taglio MNF come da catalogo.

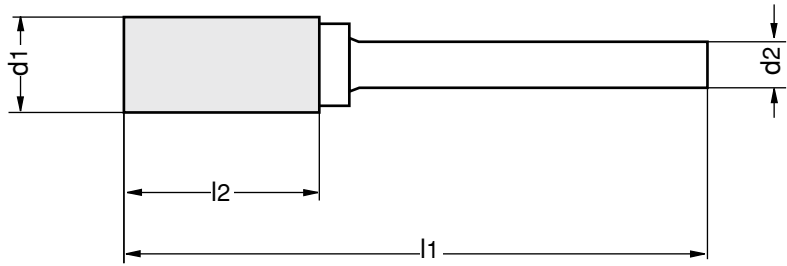
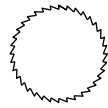
I tagli sopra indicati sono eseguibili anche nella versione fine che consiste nell'avere un maggiore numero di denti.

Le lime rotative possono essere impiegate sia nei robot che a macchina, oltre che con utensili pneumatici.

Velocità di taglio raccomandate:



SA
SCTI



**Cilindriche
senza
taglio in
testa**



Codice Nr.	d1 mm	l2 mm	l1 mm	d2 mm	Taglio 1	Taglio 2	Taglio Alu	Taglio 1 Tin	Taglio 2 Tin
SA41M	1,5	6,0	38	3,0					
SA41ML2	1,5	6,0	50	3,0					
SA41ML3	1,5	6,0	75	3,0					
SA42M	2,5	11,0	38	3,0					
SA42ML2	2,5	11,0	50	3,0					
SA42ML3	2,5	11,0	75	3,0					
SA43M	3,0	14,0	38	3,0					
SA43M TIN	3,0	14,0	38	3,0					
SA43ML2	3,0	14,0	50	3,0					
SA43ML3	3,0	14,0	75	3,0					
SA11M	3,0	12,0	56	6,0					
SA12M	3,0	12,7	60	6,0					
SA52M	4,0	12,7	38	3,0					
SA13M	4,0	16,0	50	6,0					
SA53M	5,0	12,7	38	3,0					
SA14M	5,0	16,0	50	6,0					
SA1M	6,0	16,0	50	6,0					
SA1M TIN	6,0	16,0	50	6,0					
SA1MNF	6,0	19,0	50	6,0					
SA1ML	6,0	25,0	50	6,0					
SA51M	6,3	12,7	50	3,0					
SA2M	8,0	19,0	63	6,0					
SA3M	9,5	19,0	63	6,0					
SA3MNF	9,5	19,0	63	6,0					
SA3ML	9,5	25,0	69	6,0					
SA3MZ	10,0	20,0	60	6,0					
SA4M	11,0	25,0	69	6,0					
SA5MZ	12,0	25,0	65	6,0					
SA5M	12,7	25,0	69	6,0					
SA5MNF	12,7	25,0	69	6,0					
SA6M	16,0	25,0	69	6,0*					
SA6MNF	16,0	25,0	69	6,0*					
SA7M	19,0	25,0	69	6,0*					
SA7MNF	19,0	25,0	69	6,0*					
SA7MNF/8	19,0	25,0	69	8,0					
SA9M	25,0	25,0	69	6,0*					

Tipo gambo lungo

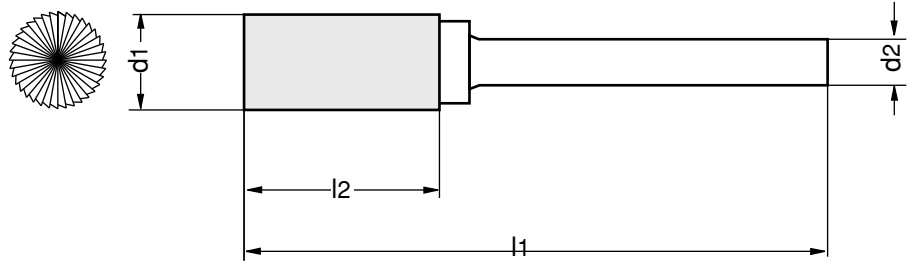
SA1ML6	6,0	12,7	162	6,0
SA3ML6	9,5	19,0	169	6,0
SA5ML6	12,7	25,0	175	6,0

* Per diametri ≥ 16 gambo opzionale d2 =8,0

Specificare ordinando la sigla ed il tipo di taglio: i tagli 1 e 2 sono gestiti a stock mentre gli altri sono normali e fornibili in tempi brevi.

SB
SCTI

**Cilindriche
con taglio
in testa**



Codice Nr.	d1 mm	l2 mm	l1 mm	d2 mm	Taglio 1	Taglio 2	Taglio Alu
SB 41M	1,5	6,0	38	3,0			
SB41ML2	1,5	6,0	50	3,0			
SB41ML3	1,5	6,0	75	3,0			
SB42M	2,5	11,0	38	3,0			
SB42ML2	2,5	11,0	50	3,0			
SB42ML3	2,5	11,0	75	3,0			
SB43M	3,0	14,0	38	3,0			
SB43ML2	3,0	14,0	50	3,0			
SB43ML3	3,0	14,0	75	3,0			
SB11M	3,0	12,0	56	6,0			
SB12M	3,0	12,7	60	6,0			
SB13M	3,0	16,0	50	6,0			
SB14M	5,0	16,0	50	6,0			
SB1M	6,0	16,0	50	6,0			
SB1MNF	6,0	19,0	50	6,0			
SB1ML	6,0	25,0	50	6,0			
SB51M	6,3	12,7	43	3,0			
SB2M	8,0	19,0	63	6,0			
SB3M	9,5	19,0	63	6,0			
SB3MNF	9,5	19,0	63	6,0			
SB3ML	9,5	25,0	69	6,0			
SB3MZ	10,0	20,0	60	6,0			
SB4M	11,0	25,0	69	6,0			
SB5MZ	12,0	25,0	65	6,0			
SB5M	12,7	25,0	69	6,0			
SB5MNF	12,7	25,0	69	6,0			
SB6M	16,0	25,0	69	6,0			
SB6MNF	16,0	25,0	69	6,0			
SB7M	19,0	25,0	69	6,0*			
SB7MNF	19,0	25,0	69	6,0*			
SB7MNF/8	19,0	25,0	69	8,0			
SB9M	25,0	25,0	69	6,0*			

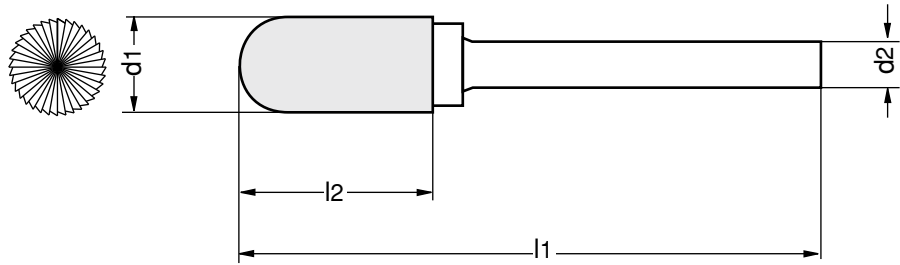
* Per diametri ≥ 16 gambo opzionale d2 = 8,0

Specificare ordinando la sigla ed il tipo di taglio: i tagli 1 e 2 sono gestiti a stock mentre gli altri sono normali e fornibili in tempi brevi.



SC
SCTI

**Cilindriche
raggiate
con taglio in testa**



Codice Nr.	d1 mm	l2 mm	l1 mm	d2 mm	Taglio 1	Taglio 2	Taglio Alu	Taglio 1 Tin	Taglio 2 Tin
SC 41M	2,5	11,0	38	3,0					
SC42M	3,0	14,0	38	3,0					
SC42M TIN	3,0	14,0	38	3,0					
SC42ML2	3,0	14,0	50	3,0					
SC42ML3	3,0	14,0	75	3,0					
SC11M	3,0	12,0	56	6,0					
SC12M	3,0	16,0	60	6,0					
SC52M	4,0	12,7	38	3,0					
SC13M	4,0	16,0	50	6,0					
SC53M	5,0	12,7	38	3,0					
SC14M	5,0	16,0	50	6,0					
SC1M	6,0	16,0	50	6,0					
SC1M TIN	6,0	16,0	50	6,0					
SC1MNF	6,0	19,0	50	6,0					
SC1ML	6,0	25,0	50	6,0					
SC51M	6,3	12,7	50	3,0					
SC2M	8,0	19,0	63	6,0					
SC3M	9,5	19,0	63	6,0					
SC3MNF	9,5	19,0	63	6,0					
SC3ML	9,5	25,0	69	6,0					
SC3MZ	10,0	20,0	60	6,0					
SC4M	11,0	25,0	69	6,0					
SC5MZ	12,0	25,0	65	6,0					
SC5M	12,7	25,0	69	6,0					
SC5MNF	12,7	25,0	69	6,0					
SC6M	16,0	25,0	69	6,0*					
SC7M	19,0	25,0	69	6,0*					
SC7MNF	19,0	25,0	69	6,0*					
SC7MNF/8	19,0	25,0	69	8,0					
SC9M	25,0	25,0	69	6,0*					

Tipo gambo lungo

SC1ML6	6,0	12,7	162	6,0					
SC3ML6	9,5	19,0	169	6,0					
SC5ML6	12,7	25,0	175	6,0					

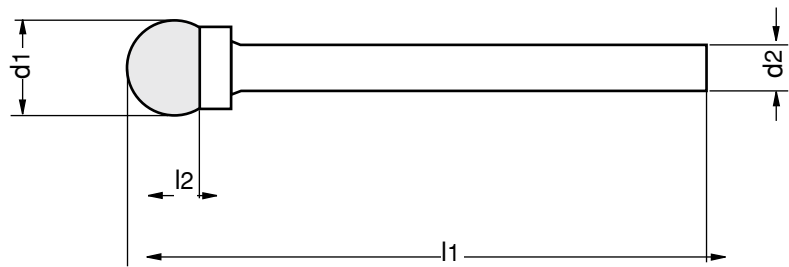
* Per diametri ≥ 16 gambo opzionale d2 =8,0

Specificare ordinando la sigla ed il tipo di taglio: i tagli 1 e 2 sono gestiti a stock mentre gli altri sono normali e fornibili in tempi brevi.



SD
SCTI

Sferiche



Codice Nr.	d1 mm	l2 mm	l1 mm	d2 mm	Taglio 1	Taglio 2	Taglio Alu	Taglio 1 Tin	Taglio 2 Tin
SD41M	2,5	2,3	38	3,0					
SD42M	3,0	2,5	38	3,0					
SD42M TIN	3,0	2,5	38	3,0					
SD42ML2	3,0	2,5	50	3,0					
SD42ML3	3,0	2,5	75	3,0					
SD11M	3,0	2,5	50	6,0					
SD52M	4,0	3,4	38	3,0					
SD53M	5,0	4,7	38	3,0					
SD14M	5,0	4,0	50	6,0					
SD1M	6,0	5,0	50	6,0					
SD1M TIN	6,0	5,0	50	6,0					
SD1MNF	6,0	5,0	50	6,0					
SD51M	6,3	5,0	44	3,0					
SD2M	8,0	6,4	50	6,0					
SD3M	9,5	8,0	52	6,0					
SD3MNF	9,5	8,0	52	6,0					
SD3MZ	10,0	9,0	49	6,0					
SD4M	11,0	9,5	54	6,0					
SD5MZ	12,0	10,8	51	6,0					
SD5M	12,7	11,0	55	6,0					
SD5MNF	12,7	11,0	55	6,0					
SD6M	16,0	14,0	58	6,0*					
SD6MNF	16,0	14,0	58	6,0*					
SD7M	19,0	16,0	62	6,0*					
SD7MNF	19,0	16,0	62	6,0*					
SD7MNF/8	19,0	16,0	62	8,0					
SD9M	25,0	21,0	72	6,0*					

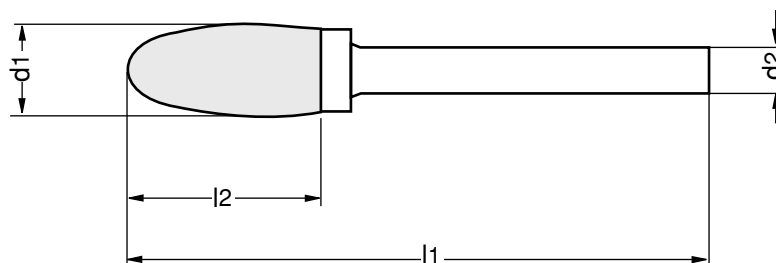
Tipo gambo lungo

SD1ML6	6,0	5,0	155	6,0					
SD3ML6	9,5	8,0	158	6,0					
SD5ML6	12,7	11,0	161	6,0					

* Per diametri ≥ 16 gambo opzionale d2 =8,0

Specificare ordinando la sigla ed il tipo di taglio: i tagli 1 e 2 sono gestiti a stock mentre gli altri sono normali e fornibili in tempi brevi.

SE
SCTI



Ovali



Codice Nr.	d1	l2	l1	d2	Taglio 1	Taglio 2	Taglio Alu	Taglio 1 Tin	Taglio 2 Tin
	mm	mm	mm	mm					
SE41M	3,0	5,5	38	3,0					
SE41ML2	3,0	5,5	50	3,0					
SE41ML3	3,0	5,5	75	3,0					
SE53M	5,0	7,1	38	3,0					
SE1M	6,0	9,5	50	6,0					
SE51M	6,3	9,5	47	3,0					
SE3M	9,5	16,0	60	6,0					
SE3MNF	9,5	16,0	60	6,0					
SE5M	12,7	22,0	66	6,0					
SE5MNF	12,7	22,0	66	6,0					
SE6M	16,0	25,0	69	6,0*					
SE6MNF	16,0	25,0	69	6,0*					
SE7M	19,0	25,0	69	6,0*					
SE7MNF	19,0	25,0	69	6,0*					
SE7MNF/8	19,0	25,0	69	8,0					

Tipo gambo lungo

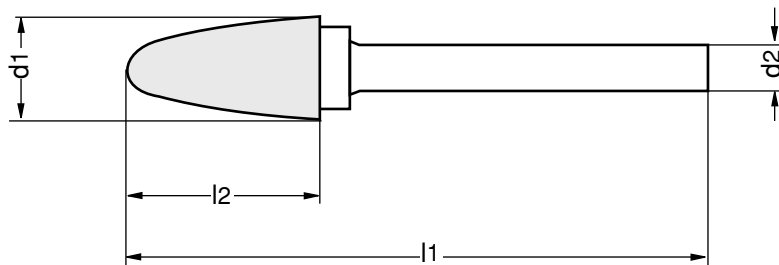
SE1ML6	6,0	9,5	160	6,0					
SE3ML6	9,5	16,0	166	6,0					
SE5ML6	12,7	22,0	172	6,0					

* Per diametri ≥ 16 gambo opzionale $d2 = 8,0$

Specificare ordinando la sigla ed il tipo di taglio: i tagli 1 e 2 sono gestiti a stock mentre gli altri sono normali e fornibili in tempi brevi.



SF
SCTI



Ogiva Raggiata



Codice Nr.	d_1 mm	l_2 mm	l_1 mm	d_2 mm	Taglio 1	Taglio 2	Taglio Alu	Taglio 1 Tin	Taglio 2 Tin
SF41M	3,0	6,0	38	3,0					
SF42M	3,0	12,7	38	3,0					
SF11M	3,0	12,7	56	6,0					
SF42ML2	3,0	12,7	50	3,0					
SF42ML3	3,0	12,7	75	3,0					
SF53M	5,0	12,7	38	3,0					
SF1M	6,0	16,0	50	6,0					
SF1MNF	6,0	19,0	50	6,0					
SF51M	6,3	12,7	50	3,0					
SF3M	9,5	19,0	63	6,0					
SF3MNF	9,5	19,0	63	6,0					
SF4M	11,0	25,0	69	6,0					
SF5MZ	12,0	25,0	65	6,0					
SF13M	12,7	19,0	63	6,0					
SF5M	12,7	25,0	69	6,0					
SF5MNF	12,7	25,0	69	6,0					
SF6M	16,0	25,0	69	6,0*					
SF6MNF	16,0	25,0	69	6,0*					
SF7M	19,0	25,0	69	6,0*					
SF14M	19,0	32,0	76	6,0*					
SF14MNF	19,0	32,0	76	6,0*					
SF14MNF/8	19,0	32,0	76	8,0					
SF15M	19,0	38,0	82	6,0*					

Tipo gambo lungo

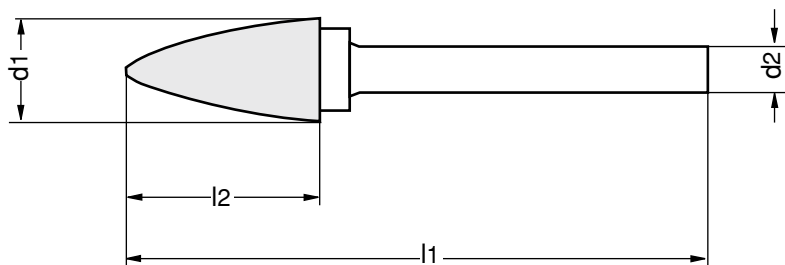
SF1ML6	6,0	12,7	163	6,0					
SF3ML6	9,5	19,0	169	6,0					
SF5ML6	12,7	25,0	175	6,0					

* Per diametri ≥ 16 gambo opzionale $d_2 = 8,0$

Specificare ordinando la sigla ed il tipo di taglio: i tagli 1 e 2 sono gestiti a stock mentre gli altri sono normali e fornibili in tempi brevi.



SG
SCTI



Ogiva Appuntita



Codice Nr.	d1	l2	l1	d2	Taglio 1	Taglio 2	Taglio Alu	Taglio 1 Tin	Taglio 2 Tin
	mm	mm	mm	mm					
SG41M	3,0	6,0	38	3,0					
SG41M TIN	3,0	6,0	38	3,0					
SG43M	3,0	9,5	38	3,0					
SG44M	3,0	12,7	38	3,0					
SG44ML2	3,0	12,7	50	3,0					
SG44ML3	3,0	12,7	75	3,0					
SG53M	5,0	12,7	38	3,0					
SG1M	6,0	16,0	50	6,0					
SG1M TIN	6,0	16,0	50	6,0					
SG51M	6,3	12,7	50	3,0					
SG2M	8,0	19,0	63	6,0					
SG3M	9,5	19,0	63	6,0					
SG3MZ	10,0	20,0	60	6,0					
SG5MZ	12,0	25,0	65	6,0					
SG13M	12,7	19,0	63	6,0					
SG5M	12,7	25,0	69	6,0					
SG6M	16,0	25,0	69	6,0*					
SG7M	19,0	25,0	69	6,0*					
SG15M	19,0	38,0	82	6,0*					

Tipo gambo lungo

SG1ML6	6,0	12,7	163	6,0					
SG3ML6	9,5	19,0	169	6,0					
SG5ML6	12,7	25,0	175	6,0					

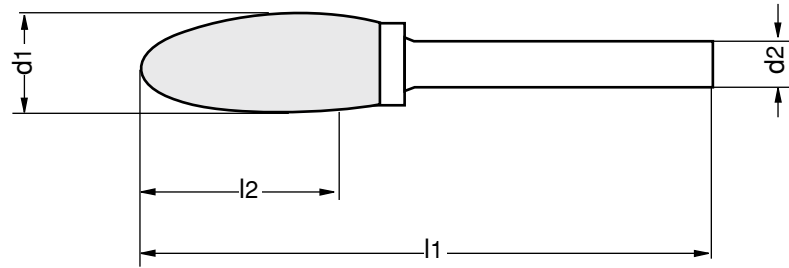
* Per diametri ≥16 gambo opzionale d2 =8,0

Specificare ordinando la sigla ed il tipo di taglio: i tagli 1 e 2 sono gestiti a stock mentre gli altri sono normali e fornibili in tempi brevi.



SH
SCTI

Fiamma



Codice Nr.	d1 mm	l2 mm	l1 mm	d2 mm	Taglio 1	Taglio 2
SH41M	3,0	6,3	38	3,0		
SH41ML2	3,0	6,3	50	3,0		
SH41ML3	3,0	6,3	75	3,0		
SH53M	5,0	9,5	38	3,0		
SH2M	8,0	19,0	63	6,0		
SH5M	12,7	32,0	76	6,0		
SH6M	16,0	36,0	80	6,0		
SH7M	19,0	41,0	85	6,0		

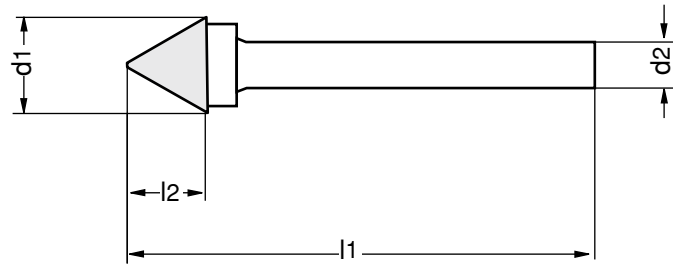
Tipo gambo lungo

SH2ML6	8,0	19	169	6,0		
SH5ML6	12,7	32	182	6,0		

* Per diametri ≥ 16 gambo opzionale d2 =8,0

Specificare ordinando la sigla ed il tipo di taglio: i tagli 1 e 2 sono gestiti a stock mentre gli altri sono normali e fornibili in tempi brevi.

SJ
SCTI

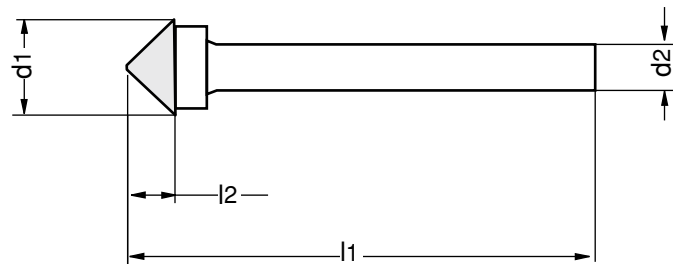


Svasatore a 60°



Codice Nr.	d1	l2	l1	d2	Taglio 1	Taglio 2
	mm	mm	mm	mm		
SJ 42M	3,0	2,5	38	3,0		
SJ1M	6,0	4,0	50	6,0		
SJ3M	9,5	8,0	55	6,0		
SJ5M	12,7	11,0	58	6,0		
SJ6M	16,0	14,5	61	6,0		
SJ7M	19,0	17,5	65	6,0		
SJ9M	25,0	24,5	68	6,0		

SK
SCTI



Svasatore a 90°

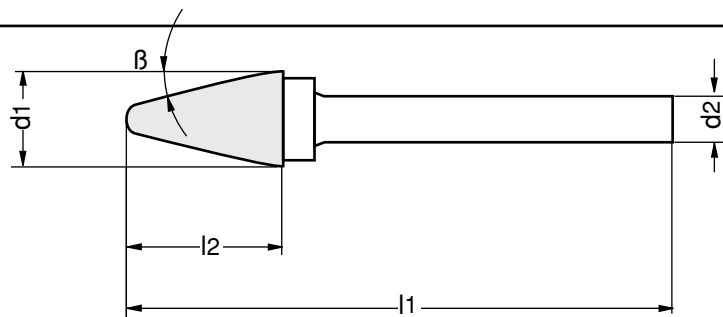


Codice Nr.	d1	l2	l1	d2	Taglio 1	Taglio 2
	mm	mm	mm	mm		
SK42M	3,0	1,5	38	3,0		
SK1M	6,0	3,0	50	6,0		
SK3M	9,5	4,7	52	6,0		
SK5M	12,7	6,3	54	6,0		
SK6M	16,0	8,0	57	6,0		
SK7M	19,0	9,5	58	6,0		
SK9M	25,0	12,7	60	6,0		

Specificare ordinando la sigla ed il tipo di taglio: i tagli 1 e 2 sono gestiti a stock mentre gli altri sono normali e fornibili in tempi brevi.

SL
SCTI

Coniche raggiate



Codice Nr.	d1 mm	l2 mm	l1 mm	d2 mm	β gradi	Taglio 1	Taglio 2	Taglio Alu	Taglio 2 Tin
SL41M	3,0	9,5	38	3,0	8°				
SL42M	3,0	12,7	38	3,0	8°				
SL42M TIN	3,0	12,7	38	3,0	8°				
SL42ML2	3,0	12,7	50	3,0	8°				
SL42ML3	3,0	12,7	75	3,0	14°				
SL53M	5,0	12,7	38	3,0	14°				
SL1M	6,0	16,0	50	6,0	14°				
SL2M	8,0	22,0	69	6,0	14°				
SL3M	9,5	27,0	74	6,0	14°				
SL3MNF	9,5	27,0	74	6,0	14°				
SL4M	12,7	28,0	76	6,0	14°				
SL4MNF	12,7	28,0	76	6,0	14°				
SL5M	16,0	30,0	77	6,0*	14°				
SL5MNF	16,0	30,0	77	6,0*	14°				
SL7M	19,0	38,0	85	6,0*	14°				
SL7MNF	19,0	38,0	85	6,0*	14°				
SL7MNF/8	19,0	38,0	85	8,0	14°				

Tipo gambo lungo

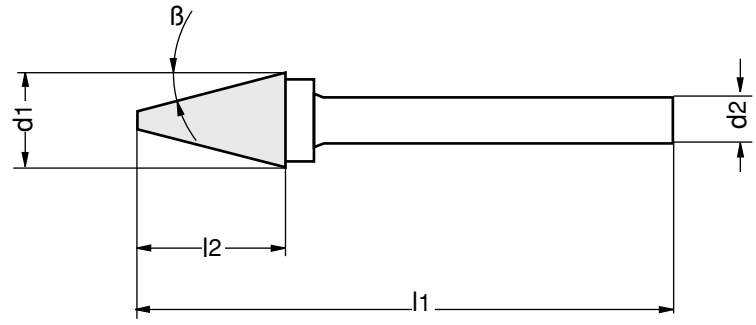
SL1ML6	6,0	16,0	166	6,0	■	■		
SL3ML6	9,5	27,0	177	6,0	■	■		
SL4ML6	12,7	28,0	178	6,0	■	■		

* Per diametri ≥16 gambo opzionale d2 =8,0

Specificare ordinando la sigla ed il tipo di taglio: i tagli 1 e 2 sono gestiti a stock mentre gli altri sono normali e fornibili in tempi brevi.

SM
SCTI

Coniche troncate

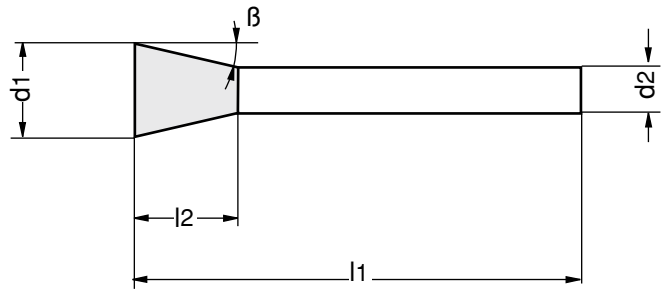


Codice Nr.	d1 mm	l2 mm	l1 mm	d2 mm	β gradi	Taglio 1	Taglio 2	Taglio 1 Tin	Taglio 2 Tin
SM41M	3,0	8,9	38	3,0	12°				
SM42M	3,0	11,0	38	3,0	14°				
SM42ML2	3,0	11,0	50	3,0	14°				
SM42ML3	3,0	11,0	75	3,0	14°				
SM43M	3,0	16,0	38	3,0	7°				
SM43M TIN	3,0	16,0	38	3,0	7°				
SM53M	5,0	12,7	38	3,0	16°				
SM1M	6,0	12,7	50	6,0	22°				
SM1M TIN	6,0	12,7	50	6,0	22°				
SM2M	6,0	19,0	50	6,0	22°				
SM3M	6,0	25,0	50	6,0	14°				
SM51M	6,3	12,7	54	6,0	10°				
SM4M	9,5	16,0	63	6,0	28°				
SM5M	12,7	22,0	69	6,0	28°				
SM6M	16,0	25,0	73	6,0	31°				

* Per diametri ≥16 gambo opzionale d2 =8,0

Specificare ordinando la sigla ed il tipo di taglio: i tagli 1 e 2 sono gestiti a stock mentre gli altri sono normali e fornibili in tempi brevi.

SN
SCTI



Coniche inverse



Codice Nr.	d1 mm	l2 mm	l1 mm	d2 mm	B gradi	Taglio 1	Taglio 2
SN41M	2,5	3,0	38	3,0	10°		
SN42M	3,0	4,0	38	3,0	10°		
SN53M	5,0	6,3	38	3,0	10°		
SN1M	6,0	8,0	50	6,0	10°		
SN51M	6,3	6,0	44	3,0	10°		
SN2M	9,5	9,5	53	6,0	13°		
SN4M	12,7	12,7	57	6,0	28°		
SN6M	16,0	19,0	63	6,0*	18°		
SN7M	19,0	16,0	60	6,0*	30°		

* Per diametri ≥ 16 gambo opzionale d2 =8,0

Specificare ordinando la sigla ed il tipo di taglio: i tagli 1 e 2 sono gestiti a stock mentre gli altri sono normali e fornibili in tempi brevi.

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