



Ski-Carb End Mills for Aluminum & Non-Ferrous Applications

The Original High Performance End Mill for Aluminum

Patented Design Features:

- Circular Land reduces edge aggressiveness for varied speed & feed rates and allows for milling into corners while significantly reducing chatter.
- Ski Land with primary and secondary flute wall construction avoids chip interference by directing chips away from secondary flute.
- High Helix (45 degree) increases effective rake for greater shearing ability with out reducing edge strength.
- Short Length for increased rigidity.
- Available Corner Radii for additional protection against chipping.



Contact your SGS Sales Representative for more information on Corner Radius Options.



Fresas Ski-Carb para aplicaciones de aluminio y no ferrosas

La fresa de alto rendimiento original para aluminio

Características de diseño patentadas:

- El plano circular reduce la agresividad del filo para diversas velocidades y avances, y permite fresar en esquinas al tiempo que reduce significativamente la vibración.
- La geometría Ski-Land, con la construcción de las paredes de canal primario y secundario, evita la interferencia de las virutas dirigiéndolas lejos del canal secundario.
- El ángulo de hélice alto (45 grados) aumenta la inclinación efectiva, con lo que se logra una mayor capacidad de corte sin reducir la resistencia del filo.
- Longitud reducida, para aumentar la rigidez.
- Disponibles con radio de esquina, para protección adicional contra el astillado.

Comuníquese con su Representante de Ventas SGS para obtener más información sobre las opciones de radio de esquina.

Fraises à queue Ski-Carb pour aluminium et applications non ferreuses

La fraise à queue haute performance originale pour l'aluminium

Caractéristiques techniques brevetées :

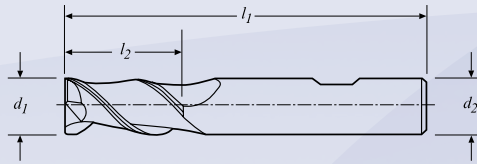
- Listel circulaire réduisant l'agressivité des rebords avec diverses vitesses de rotation et d'avance, permettant de fraiser dans les coins tout en réduisant considérablement le broutage.
- Listel de glisse avec goujure primaire et secondaire évitant les interférences des copeaux en les écartant de la goujure secondaire.
- Hélice haute (45 degrés) augmentant la vague de coupe efficace pour une meilleure capacité de fraisage sans réduire la résistance des rebords.
- Longueur courte pour une rigidité accrue.
- Rayons de coin disponibles pour une protection supplémentaire contre les copeaux.

Pour de plus amples informations sur les options de rayon de coin, contactez votre représentant commercial SGS.





Ski-Carb End Mills for Aluminum & Non-Ferrous Applications



Tolerances (inch)

Diameter	d ₁	d ₂
1/4 - 1	+0.000/-0.005	-0.001/-0.004
Corner Radius: +.000/-0.002		



Series 44 • 44M



Ski-Carb End Mills for Aluminum & Non-Ferrous Applications – 2-Flute – Regular Length

Serie 44 • 44M



Fresas Ski-Carb para aplicaciones de aluminio y no ferrosas – 2 filos – Longitud normal

Série 44 • 44M



Fraises à queue Ski-Carb pour aluminium et applications non ferreuses – 2 goujures – Longueur normale

Cutting Diameter d ₁	Length of Cut l ₂	Overall Length l ₁	Shank Diameter d ₂	Corner Radius * (Optional)	Uncoated EDP No. W/Flat	Uncoated EDP No. W/O Flat
1/4	3/4	2-7/16	3/8	.015-.060	34501	32033
1/4	1-1/4	3-1/16	3/8	.015-.060	34503	32034
1/4	1-3/4	3-9/16	3/8	.015-.060	34505	32035
5/16	1-3/8	3-1/8	3/8	.015-.060	34507	32036
3/8	3/4	2-1/2	3/8	.015-.060	34509	32037
3/8	1-1/2	3-1/4	3/8	.015-.060	34511	32038
3/8	2-1/2	4-1/4	3/8	.015-.060	34513	32039
1/2	1-1/4	3-1/4	1/2	.015-.125	34515	32040
1/2	2	4	1/2	.015-.125	34517	32041
1/2	3	5	1/2	.015-.125	34519	32042
5/8	1-5/8	3-3/4	5/8	.015-.125	34521	32043
5/8	2-1/2	4-5/8	5/8	.015-.125	34523	32044
3/4	1-5/8	3-7/8	3/4	.015-.125	34525	32045
3/4	3	5-1/4	3/4	.015-.125	34527	32046
3/4	4	6-1/4	3/4	.015-.125	34529	32047
1	2	4-1/2	1	.015-.125	34531	32048
1	4	6-1/2	1	.015-.125	34533	32049

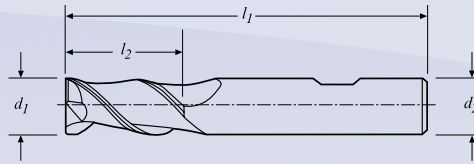
*Contact your SGS Sales Representative for more information on Corner Radius Options.

Ski-Carb End Mills for Aluminum & Non-Ferrous Applications



Diameter	Tolerances (mm)	
	d_1	d_2
1 – 3	+0,000/–0,006	+0,000/–0,006
> 3 – 6	+0,000/–0,008	+0,000/–0,008
> 6 – 10	+0,000/–0,009	+0,000/–0,009
> 10 – 18	+0,000/–0,011	+0,000/–0,011
> 18 – 20	+0,000/–0,013	+0,000/–0,013

Corner Radius: +0,00/–0,05



Cutting Diameter d_1 h_6 mm	Length of Cut l_2 mm	Overall Length l_1 mm	Shank Diameter d_2 h_6 mm	Corner Radius* (Optional) mm	Uncoated EDP No. W/Flat	Uncoated EDP No. W/O Flat
3	8	52	6	0,38-0,76	44505	49663
4	11	55	6	0,38-0,76	44509	49664
5	13	57	6	0,38-0,76	44513	49665
6	13	57	6	0,38-1,52	44517	49666
8	19	69	10	0,38-1,52	44521	49667
10	22	72	10	0,38-1,52	44525	49668
12	26	83	12	0,38-3,17	44529	49669
14	26	83	14	0,38-3,17	44533	49670
16	32	92	16	0,38-3,17	44537	49671
18	32	92	18	0,38-3,17	44541	49672
20	38	104	20	0,38-3,17	44545	49673

*Contact your SGS Sales Representative for more information on Corner Radius Options.

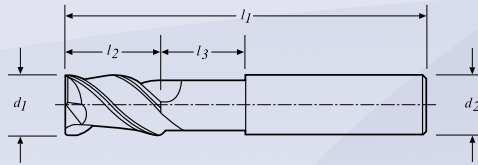




Ski-Carb End Mills for Aluminum & Non-Ferrous Applications

Fractional Series

45



Tolerances (inch)

Diameter	d ₁	d ₂
1/4 - 1	+0.0000/-0.0005	-0.0001/-0.0004
Corner Radius: +.000/-0.002		



Series 45



Ski-Carb End Mills for Aluminum & Non-Ferrous Applications – 2-Flute – Short Length

Serie 45



Fresas Ski-Carb para aplicaciones de aluminio y no ferrosas – 2 filos – Cortes longueurs

Série 45



Fraises à queue Ski-Carb pour aluminium et applications non ferreuses – 2 goujures – Longitudes reducidas

Cutting Diameter d ₁	Length of Cut l ₂	Overall Length l ₁	Reach* (Optional) l ₃	Shank Diameter d ₂	Corner Radius	Uncoated EDP No. W/Flat	Uncoated EDP No. W/O Flat
1/4	3/8	2-1/2	13/16	3/8	.010	91257	91250
5/16	7/16	2-1/2	15/16	3/8	.012	91258	91251
3/8	9/16	2-1/2	15/16	3/8	.015	91259	91252
1/2	3/4	3	1/4	1/2	.020	91260	91253
5/8	7/8	3-1/2	1/2	5/8	.025	91261	91254
3/4	1	4	1-3/4	3/4	.030	91262	91255
1	1-1/4	4	1-7/8	1	.040	91263	91256

*Contact your SGS Sales Representative for more information on Reach Options.

