DORMER

Material	Material	Material	Matière
Application	Aplicaciones	Aplicação	Utilisation
Type	Tipo	Tipo	Type
teeth (z)	Dientes	Navalhas	Dent
Cut length	Longitud de corte	Comprimento Navalha	Longueur de coupe
Helix angle/ Rake angle	Ángulo de la hélice/ Ángulo de corte	Ângulo da Hélice / Ângulo de Saída	Angle d'hélice / Angle de coupe
Shank standard	Mango	Encabadouro	Queue
Coating	Tratamiento superficial	Revestimento	Revêtement
Diameter tolerance	Tolerancia del diámetro	Tolerância do diâmetro	Tolérance
Direction	Dirección	Direção	Direction
Standard	Norma	Standard	Standard

■ Excellent for Application	Excelente para la Aplicación	Excelente para a Aplicação	Excellent pour les applications
● Good for Application	Bueno para la Aplicación	Bom para a Aplicação	Acceptable pour les applications
Example 10 = Peripheral speed in metres/minute +/- 10%	Ejemplo 10 = Velocidad Periférica en metros/ minuto +/- 10%	Exemplo 10 = velocidade periférica em metros / minuto + / - 10%	Exemple 10 = Vitesse périphérique en mètres/ minute +/- 10%

Codes	Código de producto	Código	Codes
Range	Rango de Diámetros	Gama de medidas	Gamme

AMG	English	Español	Português	Français
1.1	Magnetic soft steel	Acero blando	Aço macio de baixa resistência	Acier doux magnétique
1.2	Structural steel, case carburizing steel	Acero de construcción/cementación	Aço estrutural / Aço cementado	Acier de construction, Acier de cémentation
1.3	Plain Carbon steel	Acero al carbono	Aço carbono	Acier au carbone ordinaire
1.4	Alloy steel	Acero aleado	Aço de liga	Acier allié
1.5	Alloy steel, Hardened and tempered steel	Acero aleado/temple y revenido	Aço de Liga endurecido e temperado	Acier allié/ Acier trempé et revenu
1.6	Alloy steel, Hardened and tempered steel	Acero aleado/temple y revenido	Aço de Liga endurecido e temperado	Acier allié/ Acier trempé et revenu
1.7	Alloy steel, Heat treated	Acero aleado cementado	Aço de liga temperado	Acier allié trempé
1.8	Alloy steel, Hardened & Wear resistant steel	Acero aleado cementado	Aço de liga temperado / resistente ao degaste	Acier allié trempé
2.1	Free machining, Stainless Steel	Acero inoxidable fácil mecanizado	Aço inoxidável de fácil maquinação	Acier inoxydable de décolletage
2.2	Austenitic	Austenítico	Austenítico	Austénitique
2.3	Ferritic + Austenitic, Ferritic, Martensitic	Ferritico, Ferr. + Aust., Marten	Ferrítico + Austenítico + Martensílico	Ferritique + Austénitique, Martensitique
2.4	Precipitation Hardened	Acero Inoxidable Templado	Aço Inoxidável Temperado	Acier inoxydable Trempé
3.1	Lamellar graphite	Con grafito laminar	Grafite Lamelar	Graphite lamellaire
3.2	Lamellar graphite	Con grafito laminar	Grafite Lamelar	Graphite lamellaire
3.3	Nodular graphite, Malleable Cast Iron	Con graf. laminar, fundic. maleable	Grafite nodular / Ferro fundido maleável	Graphite nodulaire/ Fonte malléable
3.4	Nodular graphite, Malleable Cast Iron	Con graf. laminar, fundic. maleable	Grafite nodular / Ferro fundido maleável	Graphite nodulaire/ Fonte malléable
4.1	Titanium, unalloyed	Titanio no aleado	Titânio, sem liga	Titane, non-allié
4.2	Titanium, alloyed	Titanio aleado	Ligas de Titânio	Titane, allié
4.3	Titanium, alloyed	Titanio aleado	Ligas de Titânio	Titane, allié
5.1	Nickel, unalloyed	Níquel no aleado	Níquel, sem liga	Nickel, non-allié
5.2	Nickel, alloyed	Níquel aleado	Ligas de níquel	Nickel, allié
5.3	Nickel, alloyed	Níquel aleado	Ligas de níquel	Nickel, allié
6.1	Copper	Cobre	Cobre	Cuivre
6.2	β-Brass, Bronze	β-Latón, bronce	Latão beta, bronze	β-Laiton, Bronze
6.3	α-Brass	α-Latón	Latão alfa	α-Laiton
6.4	High Strength Bronze	Metal AMPCO	Ligas de Cu-Al-Fe, Bronze de alta resistência	Bronze, haute résistance
7.1	Al, Mg, unalloyed	Al, Mg, no aleado	Al, Mg, sem liga	Al, Mg, non-allié
7.2	Al alloyed, Si < 0.5%	Al aleado con Si < 0.5%	Ligas de Al, Si : Si < 0.5%	Al allié, Si < 0.5%
7.3	Al alloyed, Si > 0.5% < 10%	Al aleado con Si > 0.5% < 10%	Ligas de Al, Si : Si > 0.5% < 10%	Al allié, Si > 0.5% < 10%
7.4	Al alloyed, Si > 10% Whisker reinforced Al-alloys Mg-alloys	Al aleado, Si>10% Reforzado por filamentos, Al-aleados, Mg-aleados	Al com liga, Si>10%, reforçadas com monocristais filiformes, ligas Al/Mg	Al allié, Si>10% Alliages d'Al ou Mg, céramique renforcée
8.1	Thermoplastics	Termoplásticos	Termoplásticos	Thermoplastiques
8.2	Thermosetting plastics	Plásticos endurecidos por calor	Plásticos termoduros	Plastiques thermodurcissables
8.3	Reinforced plastic materials	Materiales plásticos reforzados	Materiais plásticos reforçados	Plastiques renforcés
9.1	Cermets (metals-ceramics)	Cerametales (metales-cerámicas)	Materiais cerâmicos (metalocerâmica)	Cermets (céramiques metalliques)
10.1	Graphite	Grafito standard	Grafite standard	Graphite standard

	S802HA	S802HB	S812HA	S812HB	S822	S803HA	S803HB	S813HA	S813HB	S823	S710	S902	S922	S713	S903	S933	
	HM	HM	HM	HM	HM	HM	HM	HM	HM	HM	HM	HM	HM	HM	HM	HM	
	P9	P9	P9	P9	P9	P9	P9	P9	P9	P9							
	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	
	Z 2	Z 2	Z 2	Z 2	Z 2	Z 3	Z 3	Z 3	Z 3	Z 3	Z 2	Z 2	Z 2	Z 3	Z 3	Z 3	
	λ 28° γ 9°	λ 28° γ 9°	λ 28° γ 9°	λ 28° γ 9°	λ 28° γ 9°	λ 28° γ 9°	λ 28° γ 9°	λ 28° γ 9°	λ 28° γ 9°	λ 28° γ 9°	λ 40° γ 10°	λ 30° γ 12°	λ 30° γ 12°	λ 40° γ 10°	λ 30° γ 12°	λ 30° γ 12°	
	DIN 6535HA	DIN 6535HB	DIN 6535HA	DIN 6535HB	DIN 6535HA	DIN 6535HA	DIN 6535HB	DIN 6535HA	DIN 6535HB	DIN 6535HA	DIN 6535HA	DIN 6535HA	DIN 6535HB	DIN 6535HA	DIN 6535HA	DIN 6535HB	
	Alcrona	Alcrona	Alcrona	Alcrona	Alcrona	Alcrona	Alcrona	Alcrona	Alcrona	Alcrona	AlCrN		TiAlN	AlCrN		TiAlN	
											h9	h10	h10	h9	h10	h10	
	DIN 6527K	DIN 6527K	DIN 6527L	DIN 6527L	DORMER	DIN 6527K	DIN 6527K	DIN 6527L	DIN 6527L	DORMER	DORMER	DORMER	DORMER	DORMER	DORMER	DORMER	
	1.00 - 20.00	1.80 - 20.00	2.00 - 20.00	2.00 - 20.00	2.00 - 20.00	1.00 - 20.00	1.80 - 20.00	2.00 - 20.00	2.00 - 20.00	2.00 - 20.00	1.00 - 20.00	2.00 - 20.00	2.00 - 20.00	1.50 - 20.00	2.00 - 20.00	2.00 - 20.00	
AMG	390	390	391	391	392	393	393	394	394	395	396	397	397	398	399	399	ISO
1.1	■260B	■260B	■210B	■210B	■180B	■260B	■260B	■210B	■210B	■180B	■140C	■65B	■95B	■140C	■65B	■95B	P 1
1.2	■260B	■260B	■210B	■210B	■180B	■260B	■260B	■210B	■210B	■180B	■140C	■65B	■95B	■140C	■65B	■95B	P 1
1.3	■155B	■155B	■125B	■125B	■110B	■155B	■155B	■125B	■125B	■110B	■130C	■55B	■80B	■130C	■55B	■80B	P 2
1.4	■155B	■155B	■125B	■125B	■110B	■155B	■155B	■125B	■125B	■110B	■130C	■50B	■75B	■130C	■50B	■75B	P 3
1.5	■115B	■115B	■90B	■90B	■80B	■115B	■115B	■90B	■90B	■80B	■120C	●30B	■45B	■120C	●30B	■45B	P 4
1.6	■90B	■90B	■75B	■75B	■65B	■90B	■90B	●75B	●75B	●65B			●30B			●30B	H 1
1.7																	H 3
1.8																	H 4
2.1	■105A	■105A	■75A	■75A	■70A	■105A	■105A	■85A	■85A	■70A	■80B			■80B			M 1
2.2	■70A	■70A	■55A	■55A	■50A	■70A	■70A	●55A	●55A	●50A	■70B			■70B			M 3
2.3	●70A	●70A	■55A	■55A	■50A	●70A	●70A	●55A	●55A	●50A							M 2
2.4	●50A	●50A				●50A	●50A										S 2
3.1	■180B	■180B	■145B	■145B	■125B	■180B	■180B	■145B	■145B	■125B	■170C	■55B	■80B	■170C	■55B	■80B	K 1
3.2	■110B	■110B	■85B	■85B	■75B	■110B	■110B	■85B	■85B	■75B	■150C	●30B	■45B	■150C	●30B	■45B	K 2
3.3	■145B	■145B	■115B	■115B	■100B	■145B	■145B	■115B	■115B	■100B	■130C	■55B	■80B	■130C	■55B	■80B	K 3
3.4	■95B	■95B	■75B	■75B	■65B	■95B	■95B	■75B	■75B	■65B	■120C	●30B	■45B	■120C	●30B	■45B	K 4
4.1	●170B	●170B	■140B	■140B	■120B	●170B	●170B	●140B	●140B	●120B		■65B	■95B		■65B	■95B	S 1
4.2	●115B	●115B	■90B	■90B	■80B	●115B	●115B	●90B	●90B	●80B	■70B	●30B	●45B	■70B	●30B	●45B	S 2
4.3												●15B	●20B		●15B	●20B	S 3
5.1	●165B	●165B	■130B	■130B	■115B	●165B	●165B	●130B	●130B	●115B		■65B	■95B		■65B	■95B	S 1
5.2	●35A	●35A	■25A	■25A	■25A	●35A	●35A	●25A	●25A	●25A	■70B			■70B			S 2
5.3																	S 3
6.1	●320C	●320C	■255C	■255C	■220C	●320C	●320C	●255C	●255C	●220C		■110C	■155C		■110C	■155C	N 3
6.2	■320C	■320C	■255C	■255C	■220C	■320C	■320C	■255C	■255C	■220C		■110C	■155C		■110C	■155C	N 4
6.3	■320C	■320C	■255C	■255C	■220C	■320C	■320C	■255C	■255C	■220C		■110C	■155C		■110C	■155C	N 3
6.4	■40B	■40B	■30C	■30C	■25B	■40B	■40B	■30C	■30C	■25B		●15B	●20B		●15B	●20B	N 4
7.1	●800C	●800C	■640C	■640C	■550C	●800C	●800C	●640C	●640C	●550C		●275C	●390C		●275C	●390C	N 1
7.2	■800C	■800C	■640C	■640C	■550C	■800C	■800C	■640C	■640C	■550C		●275C	●390C		●275C	●390C	N 1
7.3	■480C	■480C	■380C	■380C	■330C	■480C	■480C	■380C	■380C	■330C		●165C	●235C		●165C	●235C	N 1
7.4	■240B	■240B	■190B	■190B	■160B	■240B	■240B	■190B	■190B	■160B							N 2
8.1	●320C	●320C	■255C	■255C	■245C	●320C	●320C	●255C	●255C	●245C		●110C	●155C		●110C	●155C	O
8.2	●320C	●320C	■255C	■255C	■245C	●320C	●320C	●255C	●255C	●245C		●110C	●155C		●110C	●155C	O
8.3												●30B	●45B		●30B	●45B	O
9.1																	H
10.1																	O

DORMER

	S714	S715	S637	S638	S610	S611	S804HA	S804HB	S219	S814HA	S814HB	S716	S612	S216	S904	S944	
	HM	HM	HM	HM	HM	HM	HM	HM	HM	HM	HM	HM	HM	HM	HM	HM	
	N	N	W	W	W	W	N	N	N	N	N	N	N	N	N	N	
	Z 3	Z 3	Z 1	Z 2	Z 2	Z 2	Z 4	Z 4	Z 4	Z 4	Z 4	Z 4	Z 4	Z 4	Z 4	Z 4	
	λ40° γ10°	λ40° γ10°	λ25° γ20°	λ30° γ20°	λ30° γ20°	λ30° γ20°	λ34° γ9°	λ34° γ9°	λ40° γ3°	λ34° γ9°	λ34° γ9°	λ40° γ10°	λ40° γ10°	λ40° γ3°	λ30° γ12°	λ30° γ12°	
	DIN 6535HA	DIN 6535HA	DIN 6535HA	DIN 6535HA	DIN 6535HA	DIN 6535HA	DIN 6535HA	DIN 6535HB	DIN 6535HA	DIN 6535HA	DIN 6535HB	DIN 6535HA	DIN 6535HA	DIN 6535HA	DIN 6535HA	DIN 6535HB	
	AlCrN	AlCrN	Hi	Hi	Hi	Hi	Alcrona	Alcrona	AlTiN	Alcrona	Alcrona	AlCrN	Diamond	AlTiN		TiAlN	
	h9	h9	h9	h9	h9	h9	h10	h10	h9	h10	h10	h9	h9	h9	h12	h12	
							DIN 6527K	DIN 6527K		DIN 6527L	DIN 6527L						
AMG	400	401	402	403	404	405	406	406	407	408	408	409	410	411	412	412	
1.1	■110C	■70C					■360B	■360B		■270B	■270B	■140C			■95B	■140B	P 1
1.2	■110C	■70C					■300B	■300B		■225B	■225B	■140C			■95B	■140B	P 1
1.3	■100C	■65C					■230B	■230B		■175B	■175B	■130C			■80B	■120B	P 2
1.4	■100C	■65C					■230B	■230B		■175B	■175B	■130C			■70B	■105B	P 3
1.5	■95C	■60C					■165B	■165B		■125B	■125B	■120C			●55B	■80B	P 4
1.6							■130B	■130B	■90C	●100B	●100B			■90C	●30B	●45B	H 1
1.7																	H 3
1.8																	H 4
2.1	■65B	■40B					■165A	■165A		■125A	■125A	■80B					M 1
2.2	■55B	■35B					■110A	■110A		●85A	●85A	■70B					M 3
2.3							●110A	●110A	■70B	●85A	●85A			■70B			M 2
2.4							●75A	●75A	■50B					■50B			S 2
3.1	■135C	■85C					■275B	■275B		■205B	■205B	■170C			■80B	■120B	K 1
3.2	■120C	■75C					■165B	■165B		■125B	■125B	■150C			●55B	■80B	K 2
3.3	■100C	■65C					■165B	■165B		■125B	■125B	■130C			■70B	■105B	K 3
3.4	■95C	■60C					■135B	■135B		■105B	■105B	■120C			●55B	■80B	K 4
4.1							●275B	●275B		●205B	●205B				■95B	■140B	S 1
4.2	■55B	■35B					●140B	●140B		●105B	●105B	■70B			●40B	●60B	S 2
4.3									■50B					■50B	●30B	●45B	S 3
5.1							●275B	●275B		●205B	●205B				■135B	■200B	S 1
5.2	■55B	■35B					●55A	●55A		●40A	●40A	■70B			●30A	●45A	S 2
5.3									■50B					■50B	●25A	●35A	S 3
6.1	●200E	●125E	■350E	■400E	■350E	■280E	●320C	●320C		●255C	●255C				■110C	■155C	N 3
6.2	●190E	●115E	■300E	■345E	■300E	■240E	■320C	■320C		■255C	■255C				■110C	■155C	N 4
6.3	●175E	●110E	■250E	■290E	■250E	■200E	■320C	■320C		■255C	■255C				■110C	■155C	N 3
6.4	●160E	●100E	■200E	■230E	■200E	■160E	■40B	■40B		■32C	■32C				●15B	●20B	N 4
7.1	●200E	●125E	■600E	■690E	■600E	■480E	●800C	●800C		●640C	●640C				●275C	●390C	N 1
7.2	●190E	●115E	■500E	■575E	■500E	■400E	●800C	●800C		●640C	●640C				●275C	●390C	N 1
7.3	●175E	●110E	■400E	■460E	■400E	■320E	●480C	●480C		●380C	●380C				●165C	●235C	N 1
7.4	●160E	●100E	■350E	■400E	■350E	■280E	●240B	●240B		●190B	●190B						N 2
8.1			■800E	■980E	■800E	■640E	●320C	●320C		●255C	●255C				●110C	●155C	O
8.2			■800E	■980E	■800E	■640E	●320C	●320C		●255C	●255C				●110C	●155C	O
8.3															●55B	●80B	O
9.1																	H
10.1													■350A				O

	HM	HM	HM	HM	HM	HM	HM	HM	HM	HM	HM	HM	HM	HM	HM	HM	HM	HM
	N	N	N	N	N	N	N	N	N	N	N	N	N	NR	NR	N	N	
	Z 4	Z 4	Z 4	Z 4	Z 4 ≠	Z 4 ≠	Z 4 ≠	Z 6-8	Z 6-8	Z 6-8	Z 6-8	Z 6-8	Z 6-8	Z 4 ≠	Z 4 ≠	Z 4	Z 4	
	λ40° γ10°	λ40° γ3°	λ40° γ10°	λ40° γ3°	λ40° γ10°	λ40° γ4°	λ≠ γ10°	λ50° γ3°	λ50° γ-26°	λ50° γ3°	λ50° γ-26°	λ50° γ3°	λ50° γ-26°	λ40° γ10°	λ40° γ4°	λ40° γ-6°	λ45° γ-10°	
	DIN 6535HA	DIN 6535HA	DIN 6535HA	DIN 6535HA	DIN 6535HA	DIN 6535HA	DIN 6535HA	DIN 6535HA	DIN 6535HA	DIN 6535HA	DIN 6535HA	DIN 6535HA	DIN 6535HA	DIN 6535HA	DIN 6535HB	DIN 6535HA	DIN 6535HA	
	AlCrN	AlTiN	AlCrN	AlTiN	AlCrN	AlCrN	TiSiN	AlTiN	TiSiN	AlTiN	TiSiN	AlTiN	TiSiN	AlCrN	AlCrN	TiSiN	TiSiN	
	h9	h9	h9	h9	h9	h9	h9	h9	h9	h9	h9	h9	h9	h9	h9	h9	h9	
	DORMER	DORMER	DORMER	DORMER	DORMER	DORMER	DORMER	DORMER	DORMER	DORMER	DORMER	DORMER	DORMER	DORMER	DORMER	DORMER	DORMER	
																		
	S717	S217	S718	S218	S761	S260	S766	S225	S525	S226	S526	S227	S527	S765	S264	S524	S521	
	3.00 - 20.00	3.00 - 20.00	3.00 - 20.00	3.00 - 20.00	3.00 - 20.00	3.00 - 20.00	4.00 - 20.00	3.00 - 20.00	3.00 - 20.00	3.00 - 20.00	3.00 - 20.00	6.00 - 20.00	3.00 - 20.00	6.00 - 20.00	6.00 - 20.00	3.00 - 16.00	3.00 - 16.00	
AMG	413	413	414	414	415	415	416	417	417	418	418	419	419	420	421	422	423	ISO
1.1	■110C		■70C		■140D		■140D							■140D				P 1
1.2	■110C		■70C		■140D		■140D							■140D				P 1
1.3	■100C		■65C		■130D		■130D							■130D				P 2
1.4	■100C		■65C		■130D		■130D							■130D				P 3
1.5	■95C		■60C		■120D		■120D							■120D				P 4
1.6		■72C		■45C		■110D		■90C		■72C		■45C			■110D			H 1
1.7						■85B			■70A		■56A		■35A		■85B	■56A	■70A	H 3
1.8									■50A		■40A		■25A			■40A	■50A	H 4
2.1	■65B		■40B		■80C		■80C							■80C				M 1
2.2	■55B		■35B		■70C		■70C							■70C				M 3
2.3		■56B		■35B		■70C		■70B		■56B		■35B			■70C			M 2
2.4		■40B		■25B		■50C		■50B		■40B		■25B			■50C			S 2
3.1	■135C		■85C		■170D		■170D							■170D				K 1
3.2	■120C		■75C		■150D		■150D							■150D				K 2
3.3	■100C		■65C		■130D		■130D							■130D				K 3
3.4	■95C		■60C		■120D		■120D							■120D				K 4
4.1																		S 1
4.2	■55B		■35B		■70C		■70C							■70C				S 2
4.3		■40B		■25B		■50C		■50B		■40B		■25B			■50C			S 3
5.1																		S 1
5.2	■55B		■35B		■70C		■70C							■70C				S 2
5.3		■40B		■25B		■50C		■50B		■40B		■25B			■50C			S 3
6.1	•200E		•125E															N 3
6.2	•190E		•115E															N 4
6.3	•175E		•110E															N 3
6.4	•160E		•100E															N 4
7.1	•200E		•125E															N 1
7.2	•190E		•115E															N 1
7.3	•175E		•110E															N 1
7.4	•160E		•100E															N 2
8.1																		O
8.2																		O
8.3																		O
9.1																		H
10.1																		O

DORMER

	HM	HM	HM	HM	HM	HM	HM	HM	HM	HM	HM	HM	HM	HM	HM	HM	HM	HM
	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	W	N	N
	Z 4	Z 4 ≠	Z 4 ≠	Z 4 ≠	Z 4-6	Z 2	Z 2	Z 2	Z 2	Z 2	Z 2	Z 2	Z 4	Z 4	Z 4	Z 2	Z 2	Z 2
	λ40° γ-6°	λ40° γ10°	λ40° γ4°	λ≠ γ10°	λ25° γ0°	λ30° γ3°	λ30° γ3°	λ30° γ3°	λ30° γ-10°	λ30° γ-10°	λ30° γ-10°	λ30° γ10°	λ30° γ-10°	λ30° γ-10°	λ30° γ10°	λ30° γ15°	λ40° γ10°	λ40° γ10°
	DIN 6535HA	DIN 6535HA	DIN 6535HA	DIN 6535HA	DIN 6535HA	DIN 6535HA	DIN 6535HA	DIN 6535HA	DIN 6535HA	DIN 6535HA	DIN 6535HA	DIN 6535HA	DIN 6535HA	DIN 6535HA	DIN 6535HA	DIN 6535HA	DIN 6535HA	DIN 6535HA
	TiSiN	AlCrN	AlCrN	TiSiN	TiSiN	TiSiN	TiSiN	TiSiN	TiSiN	TiSiN	TiSiN	X-CEED	TiSiN	TiSiN	X-CEED	Hi	AlTiN	AlTiN
	h9	h9	h9	h9	h9	h9	h9	h9	h9	h9	h9	h9	h9	h9	h9	h9	h9	h9
	DORMER	DORMER	DORMER	DORMER	DORMER	DORMER	DORMER	DORMER	DORMER	DORMER	DORMER	DORMER	DORMER	DORMER	DORMER	DORMER	DORMER	DORMER
																		
	S523	S763	S262	S767	S536	S229	S231	S233	S529	S531	S533	S501	S534	S535	S511	S629	S739	S740
	1.50 - 16.00	3.00 - 20.00	3.00 - 20.00	4.00 - 20.00	6.00 - 12.00	1.50 - 16.00	1.50 - 16.00	2.00 - 16.00	1.50 - 16.00	1.50 - 16.00	2.00 - 16.00	1.00 - 16.00	3.00 - 16.00	3.00 - 16.00	3.00 - 16.00	3.00 - 20.00	3.00 - 20.00	3.00 - 20.00

AMG	424	425	426	428	429	430	431	432	433	434	435	436	437	438	439	440	441	441	ISO
1.1		■140D		■140D								■181B			■230B		■140C	■140C	P 1
1.2		■140D		■140D								■181B			■192B		■140C	■140C	P 1
1.3		■130D		■130D								■118B			■153B		■130C	■130C	P 2
1.4		■130D		■130D								■118B			■153B		■130C	■130C	P 3
1.5		■120D		■120D								■90B			■115B		■120C	■120C	P 4
1.6			■110D			■630C	■500C	■315C				■72B			■92B				H 1
1.7	■70A		■85B		■105E				■330A	■260A	■165A	●45A	■330A	■260A	●61A				H 3
1.8	■50A				■75E				■280A	■225A	■140A		■280A	■225A					H 4
2.1		■80C		■80C								■81A			■115A		■80B	■80B	M 1
2.2		■70C		■70C								■54A			■76A		■70B	■70B	M 3
2.3			■70C			■540B	■430B	■270B				■54A			■76A				M 2
2.4			■50C			■315B	■250B	■155B											S 2
3.1		■170D		■170D								■136B			■192B		■170C	■170C	K 1
3.2		■150D		■150D								■81B			■115B		■155C	■155C	K 2
3.3		■130D		■130D								■109B			■115B		■145C	■145C	K 3
3.4		■120D		■120D								■72B			■96B		■130C	■130C	K 4
4.1												■136B			■192B				S 1
4.2		■70C		■70C								■90B			■96B		■70B	■70B	S 2
4.3			■50C			■315B	■250B	■155B				■45B			■61B				S 3
5.1												■136B			■192B				S 1
5.2		■70C		■70C								■27A			■38A		■70B	■70B	S 2
5.3			■50C			■315B	■250B	■155B				■22A			■30A				S 3
6.1												■363C			●384C	■350E	■250E	■250E	N 3
6.2												■363C			●384C	■300E	■235E	■235E	N 4
6.3												■363C			●384C	■250E	■220E	■220E	N 3
6.4												■54B			●61B	■200E	■200E	■200E	N 4
7.1												■950C			●950C	■600E	■250E	■250E	N 1
7.2												■950C			●950C	■500E	■235E	■235E	N 1
7.3												■681C			■576C	■400E	■220E	■220E	N 1
7.4												■363B			■307B	■350E	■200E	■200E	N 2
8.1												■318C			●307C	■800E			O
8.2												■318C			■307C	■800E			O
8.3												■318B			■307B				O
9.1												■5A			■9A				H
10.1																			O

		HSS-E PM	HSS-E PM	HSS-E PM	HSS-E PM	HSS-E	HSS-E PM	HSS-E PM	HSS-E PM	HSS-E PM	HSS-E PM	HSS-E	HSS-E PM	HSS-E	
		P9	P9	P9	P9	P9	P9	P9	P9	P9	P9	P9			
		N	N	N	N	N	N	N	N	N	N	W	W	N	
		Z 2	Z 2	Z 2	Z 2	Z 2	Z 3	Z 3	Z 3	Z 3	Z 3	Z 2	Z 3	Z 2	
		λ30° γ12°	λ30° γ12°	λ30° γ12°	λ30° γ12°	λ30° γ12°	λ30° γ12°	λ30° γ12°	λ40° γ15°	λ30° γ12°	λ30° γ12°	λ40° γ20°	λ40° γ25°	λ30° γ12°	
		DIN 1835B	DIN 1835B	DIN 1835B	DIN 1835B	DIN 1835B	DIN 1835B	DIN 1835B	DIN 1835B	DIN 1835B	DIN 1835B	DIN 1835B	DIN 1835B	DIN 1835A	
			TiCN		TiCN			Alcrona	Alcrona		Alcrona				
		e8	e8	e8	e8	e8	e8 h10	e8 h10	e8	e8	e8	e8	k10	js14	
		DIN 327D	DIN 327D	DIN 844K	DIN 844K	DORMER	DIN 327D	DIN 327D	DIN 327D	DIN 844K	DIN 844K	DIN 844K	DIN 844K	DORMER	
	S991	C110	C126	C123	C139	C135	C306	C353	C367	C305	C352	C159	C336	C167	
	Set	1.00 - 40.00	1.00 - 30.00	1/16 - 30.00	2.00 - 25.00	2.00 - 20.00	3.00 - 30.00	3.00 - 30.00	2.00 - 20.00	2.00 - 32.00	3.00 - 20.00	2.00 - 20.00	10.00 - 30.00	6.00 - 16.00	
AMG	443	443	443	445	445	447	448	448	449	450	450	451	452	453	ISO
1.1		■60A	■135A	■55A	■120A	■50A	●53A	●145A	■146A	●56A	●135A	■50A	●55A	■50A	P 1
1.2		■50A	■105A	■45A	■95A	■40A	■49A	■120A	■117A	■44A	■105A	●40A	●44A	■40A	P 1
1.3		●40B	■95B	■40B	■85B	●35B	■41B	■100B	●102B	■39B	■95B	●35B	●38B	●35B	P 2
1.4		●35B	■80B	■35B	■70B	●30B	●35B	■85B	●87B	●33B	■80B			●30B	P 3
1.5			●55C		●50C			■60C			■55C				P 4
1.6			●25C		●20C			●25C			●25C				H 1
1.7															H 3
1.8															H 4
2.1		●30F	●45F	●25F	●45F	●25F	●26F	●50F	■67F	●26F	●50F	●23F	●25F	●25F	M 1
2.2								●45F	■55F		●40F	●19F	●21F		M 3
2.3			●25F		●25F			●30F	■35F		●25F				M 2
2.4									■25F						S 2
3.1		●35A	■60A	●30A	■55A	●30A	●32A	■65A		●30A	■60A			●30A	K 1
3.2		●30A	■50A	●25A	■45A	●25A	●27A	■55A		●25A	■50A			●25A	K 2
3.3		●50B	■90B	●45B	■80B	●40B	●48B	■95B		●45B	■90B			●40B	K 3
3.4		●30B	■55B	●30B	■50B	●25B	●30B	■60B		●27B	■55B			●25B	K 4
4.1		■35D	■45D	■30D	■45D	●30D	■33D	■50D	●50D	■29D	■45D	●28D	●30D	●30D	S 1
4.2		●25D	■40D	●25D	■35D	●25D	●26D	■40D		●24D	■35D			●25D	S 2
4.3			●15D		●15D			●20D			●15D				S 3
5.1		■60D	■130D	■50D	■115D	■50D	■58D	■140D	●140D	■51D	■125D	●48D	●52D	■50D	S 1
5.2		●15C	■25C	●15C	■25C	●15C	●15C	■30C		■13C	■25C			●15C	S 2
5.3			●10D		●10D			●15D			●10D				S 3
6.1		■85C	■190C	■80C	■170C	■70C	■110C	■210C	■209C	■100C	■190C	■100C	■100C	■75C	N 3
6.2		■85C	■190C	■80C	■170C	■70C	■110C	■210C	●209C	■100C	■190C	■100C	■100C	■75C	N 4
6.3		■85C	■190C	■80C	■170C	■70C	■110C	■210C	●209C	■100C	■190C	■100C	■100C	■75C	N 3
6.4			●25C		●25C			●30C			●25C				N 4
7.1		●220E	●480E	●200E	●435E	●180E			■528E			■250E	■250E	●200E	N 1
7.2		●220E	●480E	●200E	●435E	●180E	●219E	●530E	●528E	●198E	●480E	■250E	■250E	●200E	N 1
7.3		●85E	●190E	●80E	●170E	●70E	●86E	●210E	●209E	●79E	●190E	■100E	■100E	●75E	N 1
7.4			●95A		●85A			●105A			●95A				N 2
8.1		●90C	●190C	●80C	●175C	●70C	●72C	●210C	●209C	●65C	●190C	■100C	■100E	●80C	O
8.2												■100C	■100E		O
8.3															O
9.1															H
10.1															O

DORMER

	HSS-E	HSS-E	HSS-E PM	HSS-E PM	HSS-E PM	HSS-E PM	HSS-E PM	HSS-E PM	HSS-E PM	HSS-E PM	HSS-E PM	HSS-E PM	HSS-E PM
	N	N	N	N	N	N	N	N	N	W	HRA	HRA	HRA
	Z 2	Z 3	Z 3-5	Z 3-6	Z 3-5	Z 4-8	Z 4-6	Z 4-6	Z 4-6	Z 3	Z 3-4	Z 4-6	Z 3-6
	λ30° γ12°	λ30° γ12°	λ45° γ12°	λ45° γ12°	λ45° γ12°	λ30° γ12°	λ30° γ12°	λ30° γ12°	λ30° γ12°	λ40° γ25°	λ35° γ12°	λ35° γ12°	λ35° γ12°
	DIN 1835A	DIN 1835B	DIN 1835B	DIN 1835B	DIN 1835B	DIN 1835B	DIN 1835B	DIN 1835B	DIN 1835B	DIN 1835B	DIN 1835B	DIN 1835B	DIN 1835B
				Alcrona	Alcrona		TiCN		TiCN		Alcrona	Alcrona	Alcrona
	e8	e8	k10	k10	k10	k10	k10	k10	k10	k10	k12	k12	k12
	DORMER	DIN 844L	DIN 844K	DIN 844K	DIN 844L	DIN 844K	DIN 844K	DIN 844L	DIN 844L	DIN 844L	DIN 844K	DIN 844K	DIN 844L
	C122	C346	C299	C907	C920	C247	C246	C273	C295	C333	C922	C428	C492
	5.00 - 22.00	3.00 - 20.00	3.00 - 20.00	3.00 - 32.00	6.00 - 25.00	2.00 - 50.00	2.00 - 25.00	2.00 - 40.00	2.00 - 40.00	10.00 - 30.00	6.00 - 32.00	6.00 - 40.00	6.00 - 30.00

AMG	454	455	456	456	457	458	458	460	460	462	463	464	465	ISO
1.1	■45A	•45A				■55S	■120S	■50S	■110S					P 1
1.2	■36A	■35A				■45S	■95S	■50S	■85S					P 1
1.3	•31B	•30B	■37T	■95T	■85T	■40T	■85T	■35T	■75T		•95H	•93H	■83H	P 2
1.4	•27B	•25B	■33T	■80T	■70T	•35T	■70T	•30T	■65T		■80H	■79H	■71H	P 3
1.5			■22U	■55U	■50U		•50U		•45U		■55I	■54I	■49I	P 4
1.6			•10U	■25U	■20U		•20U		•20U		■25I	■24I	■21I	H 1
1.7														H 3
1.8														H 4
2.1	•20F	•20F	■26Y	■50Y	■45Y	•25Y	•45Y	•10Y	•40Y		■50L	■48L	■43L	M 1
2.2			•21Y	■40Y	■35Y						■40L	■40L	■36L	M 3
2.3			■13Y	■25Y	■25Y		•25Y		•20Y		■25L	■26L	■23L	M 2
2.4														S 2
3.1	•25A	•25A	■30S	■60S	■55S	•30S	■55S	•25S	■50S		■60G	■61G	■55G	K 1
3.2	•20A	•20A	■25S	■50S	■45S	•25S	■45S	•20S	■40S		■50G	■50G	■45G	K 2
3.3	•36B	•35B	■45T	■90T	■80T	•45T	■79T	•40T	■70T		■90H	■88H	■79H	K 3
3.4	•22B	•20B	■27T	■55T	■50T	•25T	■49T	•25T	■45T		■55H	■55H	■49H	K 4
4.1	•25D	■25D	•29V	•45V	•40V	■30V	■43V	■25V	■40V		•45J	•46J	•41J	S 1
4.2	•20D	•20D	■57V	■85V	■35V	•25V	■35V	•20V	■30V		■35J	■37J	■34J	S 2
4.3			■10V	■15V	■15V		•15V		•15V		■15J	■16J	■15J	S 3
5.1	■43D	■45D	■51V	■125V	■115V	■50V	■116V	■45V	■105V		•125J	•127J	•114J	S 1
5.2	•11C	•10C	■13U	■25U	■25U	•15U	■24U	•10U	■20U		■25I	■27I	■24I	S 2
5.3			■5V	■10V	■10V		•10V		•10V		■10J	■11J	■10J	S 3
6.1	■112C	■70C				■80U	■170U	■70U	■155U	■90C				N 3
6.2	■112C	■70C	■100U	■190U	■170U	■80U	■170U	■70U	■155U	■90C	■190I	■190I	■170I	N 4
6.3	■112C	■70C				■80U	■170U	■70U	■155U	■90C				N 3
6.4							•25U		•20U		•25I	•25I	•23I	N 4
7.1	•270E	•180E				•200X	•435X	•180X	•390X	■225E				N 1
7.2	•270E	•180E				•200X	•435X	•180X	•390X	■225E				N 1
7.3	•81E					•80X	•170X	•70X	•155X	■90E				N 1
7.4			■39S	■95S	■85S		•85S		•75S		■95G	■95G	■85G	N 2
8.1	•112C	•70C				•80U	•175U	•70U	•155U	■90E				O
8.2										■90E				O
8.3														O
9.1														H
10.1														O

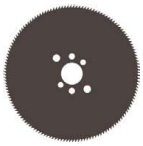
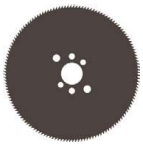
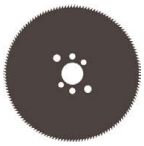
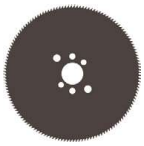
	HSS-E PM	HSS-E PM	HSS-E PM	HSS-E	HSS-E	HSS-E	HSS-E	HSS-E	HSS-E	HSS	HSS-E	
	NRA	NRA	NRA	NF	NF	NF	N	N	N	N	N	
	Z 4-6	Z 4-6	Z 4-6	Z 4-6	Z 4-6	Z 4-6	Z 2	Z 2	Z 6-8	Z 6-8	Z 8-12	
	λ35° γ12°	λ35° γ12°	λ35° γ12°	λ30° γ12°	λ30° γ12°	λ30° γ12°	λ30° γ12°	λ30° γ12°	λ15° γ10°	λ12° γ10°	λ15° γ15°	
	DIN 1835B	DIN 1835B	DIN 1835B	DIN 1835B	DIN 1835B	DIN 1835B	DIN 1835B	DIN 1835B	DIN 1835 D B	DIN 1835D	DIN 1835B	
		Alcrona	Alcrona		TiCN							
	k12	k12	k12	k12	k12	k12	e8	e8	d11	d11	js16	
	DIN 844K	DIN 844K	DIN 844L	DIN 844K	DIN 844K	DIN 844L	DIN 327D	DIN 844K	DIN 851	DORMER	DORMER	
												
	C407	C908	C948	C400	C413	C403	C500	C505	C800	C810	C825	
	6.00 - 20.00	6.00 - 32.00	6.00 - 32.00	6.00 - 20.00	6.00 - 20.00	10.00 - 50.00	2.00 - 25.00	3.00 - 30.00	11.00 - 50.00	12.50 - 40.00	40.00 - 63.00	

AMG	466	466	467	468	468	469	470	471	472	473	474	ISO
1.1	•55G			•50G	•100G	•45G	■55S	■50S	■35P	■25P	■35P	P 1
1.2	■44G			■40G	■80G	■35G	■45S	■40S	■35P	■25P	■30P	P 1
1.3	■38H	■93H	■83H	■35H	■70H	■30H	•40T	•35T	■30O	■20O	■30O	P 2
1.4	■33H	■79H	■71H	•30H	■60H	•25H	•35T	•30T	■25O	■15O	■20O	P 3
1.5	■22I	■54I	■49I		•40I				■20N	•10N	■15N	P 4
1.6	•10I	•24I	■21I		•20I				■15N	•10N	■10N	H 1
1.7												H 3
1.8												H 4
2.1	■25L	■48L	■43L	•25L	•35L	•20L	•25Y	•25Y	■20M	■15M	■15M	M 1
2.2	•21L	■40L	■36L						■15M	•10M	■10M	M 3
2.3	■13L	■26L	■23L		•20L				■10M	•10M	■10M	M 2
2.4												S 2
3.1	■30G	■61G	■55G	•30G	■45G	•25G	•30S	•30S	■20P	■20P	■25P	K 1
3.2	■25G	■50G	■45G	•25G	■35G	•20G	•25S	•25S	■20P	■20P	■20P	K 2
3.3	■44H	■88H	■79H	•40H	■65H	•35H	•45T	•40T	■30O	■20O	■30O	K 3
3.4	■27H	■55H	■49H	•25H	■40H	•20H	•30T	•25T	■20O	■10O	■20O	K 4
4.1	•30J	•46J	•41J	•30J	•35J	•25J	■30V	■30V	■30P	■20P	■35P	S 1
4.2	■25J	■37J	■34J	•25J	■30J	•20J	•25V	•25V	■20P	•15P	■20P	S 2
4.3	■11J	■16J	■15J		•10J				■10O	•5O	■10O	S 3
5.1	•52J	•127J	•114J	•50J	•95J	•45J	■50V	■50V	■35P	■25P	■35P	S 1
5.2	■14I	■27I	■24I	•15I	■20I	•10I	•15U	•15U	■10O	•5O	■5O	S 2
5.3	■6J	■11J	■10J		•10J				■5N	•5N	■5N	S 3
6.1				•70I	•140I	•65I	■85U	■80U	■100Q	■50Q	■30Q	N 3
6.2	■100I	■190I	■170I	■70I	■140I	■65I	■85U	■80U	■100P	■55P	■35P	N 4
6.3				■70I	■140I	■65I	■85U	■80U	■35P	■20P	■35P	N 3
6.4	•13I	•25I	•23I		•20I				■15O	■5O	■10O	N 4
7.1							•220X	•200X	■250R	■60R	■70R	N 1
7.2				•180K	•360K	•160K	•220X	•200X	■250R	■50R	■70R	N 1
7.3				•70K	•140K	•65K	•85X	•80X	■65R	■30R	■30R	N 1
7.4	•39G	•95G	■85G		•70G				■45Q	•20Q	■20Q	N 2
8.1				•70I	•145I	•65I	•90U	•80U	■100R	•50R	■35R	O
8.2												O
8.3												O
9.1												H
10.1									■45Q	•20Q	■20Q	O

DORMER

	HSS-E	HSS-E	HSS	HSS	HSS	HSS-E	HSS-E	HSS	HSS-E	HSS-E
	NF	N	N	N	N	N	N	N	N	
	Z 6-8	Z 6-12	Z 6-12	Z 6-8	Z 6-8	Z 10-12	Z 10-12	Z 4	Z 4-6	Z 16-30
	λ12° γ10°	λ10° γ10°	λ12° γ10°	λ0° γ0°	λ0° γ0°	λ0° γ0°	λ0° γ0°	λ0° γ0°	λ0° γ0°	λ15° γ10°
	DIN 1835B	DIN 1835 D B	DIN 1835D	DIN 1835D	DIN 1835D	DIN 1835B	DIN 1835B		DIN 1835B	
	d11	h11				js16	js16			js16
	DIN 851	DIN 850	DORMER	DORMER	DORMER	DIN 1833C	DIN 1833D	BS 122/4	DORMER	DIN 885A
	C801	C822	C820	C837	C835	C830	C831	C710	C700	D200
	16.00 - 32.00	4.50 - 45.50	10.50 - 45.50	13.00 - 38.00	1/2 - 1.1/2	12.00 - 32.00	12.00 - 32.00	1/16 - 1/2	1.00 - 20.00	50.00 - 125.00

AMG	475	476	477	479	480	481	482	483	484	485	ISO
1.1	■40P	■40P	■25P	■20P	■20P	■30P	■30P	■20P	■35P	■45P	P 1
1.2	■40P	■40P	■25P	■20P	■20P	■30P	■30P	■20P	■35P	■40P	P 1
1.3	■30O	■30O	■20O	■15O	■15O	■25O	■25O	■15O	■25O	■35P	P 2
1.4	■25O	■25O	■20O	■15O	■15O	■20O	■20O	■15O	■25O	■30P	P 3
1.5	■20N	■20N	●10N	●10N	●10N	■15N	■15N	●10N	■15N	■20P	P 4
1.6	■15N	■15N	●10N	●5N	●5N	■10N	■10N	●10N	■15N	■10P	H 1
1.7											H 3
1.8											H 4
2.1	■25M	■25M	■15M	■10M	■10M	■20M	■20M	■15M	■20M	■30P	M 1
2.2	■15M	■15M	■10M	●10M	●10M	■15M	■15M	■10M	■15M	■20P	M 3
2.3	■15M	■15M	●10M	●5M	●5M	■10M	■10M	●5M	■10M	■10Q	M 2
2.4											S 2
3.1	■25P	■25P	■20P	■15P	■15P	■20P	■20P	■20P	■20P	■30Q	K 1
3.2	■20P	■20P	■20P	■15P	■15P	■15P	■15P	■15P	■15P	■25Q	K 2
3.3	■35O	■30O	■20O	■15O	■15O	■25O	■25O	■15O	■25O	■40Q	K 3
3.4	■20O	■20O	■15O	■10O	■10O	■15O	■15O	■10O	■15O	■25Q	K 4
4.1	■30P	■30P	■20P	■15P	■15P	■25P	■25P	■15P	■25P	■30N	S 1
4.2	■20P	■20P	●15P	●10P	●10P	■15P	■15P	■10P	■20P	■20O	S 2
4.3	■10O	■10O	●10O	●5O	●5O	■10O	■10O	●5O	■10O	■15O	S 3
5.1	■40P	■35P	■25P	■20P	■20P	■30P	■30P	■20P	■35P	■40P	S 1
5.2	■10O	■10O	●5O	●5O	●5O	■10O	■10O	■5O	■10O	■15O	S 2
5.3	■5N	■5N	●5N	●5N	●5N	■5N	■5N	●5N	■5N	■10M	S 3
6.1	■110Q	■100Q	■50Q	■40Q	■40Q	■90Q	■90Q	■40Q	■90Q	■150P	N 3
6.2	■110P	■100P	■55P	■45P	■45P	■90P	■90P	■45P	■90P	■150P	N 4
6.3	■40P	■100P	■55P	■15P	■15P	■75P	■75P	■45P	■90P	■150P	N 3
6.4	■15O	■15O	●5O	●5O	●5O	■10O	■10O	●5O	■15O	■15M	N 4
7.1	■275R	■260R	■65R	■50R	■50R	■190R	■190R	■55R	■245R	■400Q	N 1
7.2	■275R	■260R	■50R	■40R	■40R	■190R	■190R	■40R	■230R	■400Q	N 1
7.3	■70R	■66R	■35R	■25R	■25R	■55R	■55R	■25R	■60R	■100Q	N 1
7.4	■45Q	■44Q	●20Q	●17Q	●17Q	■35Q	■35Q	●15Q	■40Q	■70Q	N 2
8.1	■110R	■100R	●50R	●40R	●40R	■75R	■75R			■150M	O
8.2											O
8.3											O
9.1											H
10.1	■45Q	■45Q	●20Q			■35Q	■35Q	●15Q	■40Q		O

	HSS-E	HSS	HSS	HSS	HSS	HSS	HSS	HSS-E
	Z 28-44	Z 28-100	Z 40-200	Z 80-180	Z 100-140	Z 128-220	Z 160-350	Z 8-12
	λ15° γ10°	γ15°	γ5°	γ18°	γ18°	γ18°	γ18°	λ30° γ12°
				ST	ST	ST	ST	
	js16							js16
	DIN 885A	DIN 1838	DIN 1837	DORMER	DORMER	DORMER	DORMER	DIN 1880
								
	D763	**D745**	**D747**	**D752**	**D753**	**D750**	**D751**	**D400**
	63.00 - 125.00	50.00 - 250.00	32.00 - 200.00	250.00 - 350.00	250.00 - 350.00	200.00 - 350.00	200.00 - 350.00	40.00 - 63.00

AMG	485	486	488	490	490	491	491	492	ISO
1.1	■45P	■40R	■40R	■40R	■40R	■40R	■40R	■40J	P 1
1.2	■40P	■30R	■30R	■30R	■30R	■30R	■30R	■40J	P 1
1.3	■35P	■30R	■30R	■30R	■30R	■30R	■30R	■30I	P 2
1.4	■30P	■20S	■20S	■20S	■20S	■20S	■20S	■25I	P 3
1.5	■20P							●20H	P 4
1.6	■10P							●15H	H 1
1.7									H 3
1.8									H 4
2.1	■30P	●10S	●10S	●10S	●10S	●10S	●10S	■25H	M 1
2.2	■20P	●10S	●10S	●10S	●10S	●10S	●10S	●15G	M 3
2.3	■10Q							■10G	M 2
2.4									S 2
3.1	■30Q	■40R	■40R	■40R	■40R	■40R	■40R	■20J	K 1
3.2	■25Q	■40R	■40R	■40R	■40R	■40R	■40R	■20J	K 2
3.3	■40Q	■30R	■30R	■30R	■30R	■30R	■30R	■30I	K 3
3.4	■25Q							■20I	K 4
4.1	■30N							■30J	S 1
4.2	■20O							●20I	S 2
4.3	■15O							●10I	S 3
5.1	■40P							■35J	S 1
5.2	■15O							●10I	S 2
5.3	■10M							●5H	S 3
6.1	■150P	■200R	■200R	■200R	■200R	■200R	■200R	■105M	N 3
6.2	■150P	■200T	■200T	■200T	■200T	■200T	■200T	■105K	N 4
6.3	■150P	■200T	■200T	■200T	■200T	■200T	■200T	■35K	N 3
6.4	■15M							●15H	N 4
7.1	■400Q	■600T	■600T	■600T	■600T	■600T	■600T	●260N	N 1
7.2	■400Q	■500T	■500T	■500T	■500T	■500T	■500T	■260N	N 1
7.3	■100Q	■500T	■500T	■500T	■500T	■500T	■500T	■65N	N 1
7.4	■70Q							●45L	N 2
8.1	■150M	■60T	■60T	■60T	■60T	■60T	■60T	●105N	O
8.2								●30N	O
8.3								●5L	O
9.1									H
10.1								●45K	O

DORMER

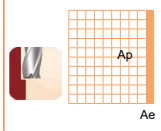
	HSS-E	HSS-E	HSS-E
	N	NR	NR
	Z 8-12	Z 6-10	Z 6-10
	λ30° γ12°	λ30° γ12°	λ30° γ12°
	TiCN		TiCN
	js16	js16	js16
	DIN 1880	DIN 1880	DIN 1880
			
	D420	**D402**	**D422**
	40.00 - 63.00	40.00 - 63.00	40.00 - 63.00

AMG	492	493	493	ISO
1.1	■75J	■40J	■75J	P 1
1.2	■75J	■40J	■75J	P 1
1.3	■65I	■30I	■65I	P 2
1.4	■50I	■25I	■50I	P 3
1.5	■35H	●20H	■35H	P 4
1.6	■30H	●15H	■30H	H 1
1.7				H 3
1.8				H 4
2.1	■35H	■25H	■35H	M 1
2.2	■30G	●15G	■30G	M 3
2.3	■20G	■10G	■20G	M 2
2.4				S 2
3.1	■35J	■20J	■35J	K 1
3.2	■30J	■20J	■30J	K 2
3.3	■50I	■30I	■50I	K 3
3.4	■30I	■20I	■30I	K 4
4.1	■35J	■30J	■35J	S 1
4.2	■25I	●20I	■25I	S 2
4.3	■15I	●10I	■15I	S 3
5.1	■75J	■35J	■75J	S 1
5.2	■20I	●10I	■20I	S 2
5.3	■10H	●5H	■10H	S 3
6.1	■150M	■105M	■150M	N 3
6.2	■150K	■105K	■150K	N 4
6.3	■50K	■35K	■50K	N 3
6.4	■20H	●15H	■20H	N 4
7.1	●260N	●260N	●260N	N 1
7.2	■260N	■260N	■260N	N 1
7.3	■135N	■65N	■135N	N 1
7.4	■75L	●45L	■75L	N 2
8.1	■120N	●105N	■120N	O
8.2	●60N	●30N	●60N	O
8.3	●15L	●5L	●15L	O
9.1				H
10.1	■125K	●45K	■125K	O

HM

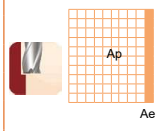
Z 1	Z 2	Z 3	Z 4	Z >4	Ae (x Ø)	Ap (x Ø)	fz	ø [mm] fz [mm/Z] ± 25 %

	Ø	1	2	3	4	5	6	8	10	12	14	16	18	20
● ■	A	0.012	0.024	0.035	0.045	0.055	0.065	0.080	0.093	0.107	0.121	0.134	0.149	0.162
	B	0.016	0.032	0.047	0.061	0.074	0.087	0.107	0.124	0.143	0.162	0.179	0.198	0.216
	C	0.020	0.040	0.058	0.076	0.092	0.108	0.134	0.156	0.179	0.202	0.224	0.248	0.271
	D	0.024	0.048	0.070	0.091	0.111	0.130	0.160	0.187	0.214	0.242	0.268	0.297	0.325
	E	0.028	0.056	0.081	0.106	0.129	0.152	0.187	0.218	0.250	0.283	0.313	0.347	0.379
	F	0.032	0.064	0.093	0.121	0.148	0.173	0.214	0.249	0.286	0.323	0.358	0.396	0.433
	G	0.037	0.071	0.105	0.136	0.166	0.195	0.240	0.280	0.321	0.364	0.403	0.446	0.487
	H	0.041	0.079	0.116	0.152	0.185	0.216	0.267	0.311	0.357	0.404	0.447	0.495	0.541



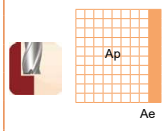
0.05 1.5

	Ø	1	2	3	4	5	6	8	10	12	14	16	18	20
● ■ ■	A	0.010	0.019	0.028	0.036	0.044	0.052	0.064	0.074	0.085	0.096	0.107	0.118	0.129
	B	0.013	0.025	0.037	0.048	0.059	0.069	0.085	0.099	0.114	0.128	0.142	0.157	0.172
	C	0.016	0.032	0.046	0.060	0.073	0.086	0.106	0.124	0.142	0.161	0.178	0.197	0.215
	D	0.019	0.038	0.055	0.072	0.088	0.103	0.127	0.148	0.170	0.193	0.213	0.236	0.258
	E	0.023	0.044	0.065	0.084	0.103	0.120	0.149	0.173	0.199	0.225	0.249	0.276	0.301
	F	0.026	0.050	0.074	0.096	0.118	0.138	0.170	0.198	0.227	0.257	0.284	0.315	0.344
	G	0.029	0.057	0.083	0.108	0.132	0.155	0.191	0.223	0.256	0.289	0.320	0.354	0.387
	H	0.032	0.063	0.092	0.120	0.147	0.172	0.212	0.247	0.284	0.321	0.356	0.394	0.430



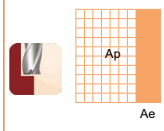
0.08 1.5

	Ø	1	2	3	4	5	6	8	10	12	14	16	18	20
■ ■ ●	A	0.007	0.014	0.021	0.027	0.033	0.038	0.047	0.055	0.063	0.071	0.079	0.087	0.095
	B	0.010	0.019	0.027	0.036	0.043	0.051	0.063	0.073	0.084	0.095	0.105	0.116	0.127
	C	0.012	0.023	0.034	0.045	0.054	0.064	0.078	0.091	0.105	0.119	0.132	0.146	0.159
	D	0.014	0.028	0.041	0.053	0.065	0.076	0.094	0.110	0.126	0.143	0.158	0.175	0.191
	E	0.017	0.033	0.048	0.062	0.076	0.089	0.110	0.128	0.147	0.166	0.184	0.204	0.223
	F	0.019	0.037	0.055	0.071	0.087	0.102	0.126	0.146	0.168	0.190	0.210	0.233	0.255
	G	0.021	0.042	0.062	0.080	0.098	0.115	0.141	0.165	0.189	0.214	0.237	0.262	0.286
	H	0.024	0.047	0.068	0.089	0.109	0.127	0.157	0.183	0.210	0.238	0.263	0.291	0.318



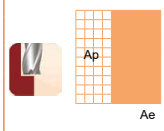
0.15 1.5

	Ø	1	2	3	4	5	6	8	10	12	14	16	18	20
■ ■	A	0.005	0.010	0.015	0.019	0.024	0.028	0.034	0.040	0.046	0.052	0.058	0.064	0.070
	B	0.007	0.014	0.020	0.026	0.032	0.037	0.046	0.053	0.061	0.069	0.077	0.085	0.093
	C	0.009	0.017	0.025	0.032	0.040	0.046	0.057	0.067	0.077	0.087	0.096	0.106	0.116
	D	0.010	0.020	0.030	0.039	0.048	0.056	0.069	0.080	0.092	0.104	0.115	0.127	0.139
	E	0.012	0.024	0.035	0.045	0.055	0.065	0.080	0.093	0.107	0.121	0.134	0.149	0.162
	F	0.014	0.027	0.040	0.052	0.063	0.074	0.092	0.107	0.122	0.138	0.153	0.170	0.185
	G	0.016	0.031	0.045	0.058	0.071	0.083	0.103	0.120	0.138	0.156	0.173	0.191	0.209
	H	0.017	0.034	0.050	0.065	0.079	0.093	0.114	0.133	0.153	0.173	0.192	0.212	0.232



0.30 1.5

	Ø	1	2	3	4	5	6	8	10	12	14	16	18	20
● ■	A	0.004	0.008	0.011	0.015	0.018	0.021	0.026	0.031	0.035	0.040	0.044	0.049	0.053
	B	0.005	0.010	0.015	0.020	0.024	0.028	0.035	0.041	0.047	0.053	0.059	0.065	0.071
	C	0.007	0.013	0.019	0.025	0.030	0.035	0.044	0.051	0.058	0.066	0.073	0.081	0.089
	D	0.008	0.016	0.023	0.030	0.036	0.043	0.052	0.061	0.070	0.079	0.088	0.097	0.106
	E	0.009	0.018	0.027	0.035	0.042	0.050	0.061	0.071	0.082	0.093	0.103	0.114	0.124
	F	0.011	0.021	0.030	0.040	0.048	0.057	0.070	0.082	0.094	0.106	0.117	0.130	0.142
	G	0.012	0.023	0.034	0.045	0.054	0.064	0.079	0.092	0.105	0.119	0.132	0.146	0.159
	H	0.013	0.026	0.038	0.050	0.061	0.071	0.087	0.102	0.117	0.132	0.146	0.162	0.177



0.60 1.5

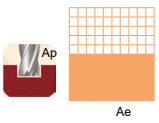
■ Excellent
Excelente
Excelente
Excellent

● Good
Bueno
Bom
Acceptable

DORMER

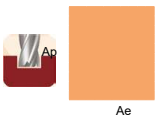
HM

Z 1	Z 2	Z 3	Z 4	Z >4	Ae (x Ø)	Ap (x Ø)	ø [mm] fz [mm/Z] ± 25 %



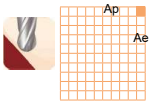
Ø	1	2	3	4	5	6	8	10	12	14	16	18	20
A	0.003	0.006	0.009	0.012	0.014	0.017	0.021	0.024	0.028	0.032	0.035	0.039	0.042
B	0.004	0.008	0.012	0.016	0.019	0.023	0.028	0.033	0.037	0.042	0.047	0.052	0.057
C	0.005	0.010	0.015	0.020	0.024	0.028	0.035	0.041	0.047	0.053	0.058	0.065	0.071
D	0.006	0.012	0.018	0.024	0.029	0.034	0.042	0.049	0.056	0.063	0.070	0.078	0.085
E	0.007	0.015	0.021	0.028	0.034	0.040	0.049	0.057	0.065	0.074	0.082	0.091	0.099
F	0.008	0.017	0.024	0.032	0.039	0.045	0.056	0.065	0.075	0.084	0.093	0.103	0.113
G	0.010	0.019	0.027	0.036	0.043	0.051	0.063	0.073	0.084	0.095	0.105	0.116	0.127
H	0.011	0.021	0.030	0.040	0.048	0.057	0.070	0.081	0.093	0.106	0.117	0.129	0.141

■ ■ ■ | 1.0 | 0.5



A	0.003	0.005	0.007	0.010	0.012	0.014	0.017	0.020	0.022	0.025	0.028	0.031	0.034
B	0.003	0.007	0.010	0.013	0.015	0.018	0.022	0.026	0.030	0.034	0.037	0.041	0.045
C	0.004	0.008	0.012	0.016	0.019	0.023	0.028	0.033	0.037	0.042	0.047	0.052	0.057
D	0.005	0.010	0.015	0.019	0.023	0.027	0.033	0.039	0.045	0.051	0.056	0.062	0.068
E	0.006	0.012	0.017	0.022	0.027	0.032	0.039	0.046	0.052	0.059	0.065	0.072	0.079
F	0.007	0.013	0.019	0.025	0.031	0.036	0.045	0.052	0.060	0.068	0.075	0.083	0.090
G	0.008	0.015	0.022	0.029	0.035	0.041	0.050	0.059	0.067	0.076	0.084	0.093	0.102
H	0.008	0.017	0.024	0.032	0.039	0.045	0.056	0.065	0.075	0.084	0.093	0.103	0.113

■ ■ ■ | 1.0 | 1.0



A	0.004	0.008	0.012	0.016	0.020	0.023	0.029	0.033	0.038	0.043	0.048	0.053	0.058
B	0.006	0.011	0.017	0.022	0.026	0.031	0.038	0.044	0.051	0.058	0.064	0.071	0.077
C	0.007	0.014	0.021	0.027	0.033	0.039	0.048	0.056	0.064	0.072	0.080	0.088	0.097
D	0.009	0.017	0.025	0.032	0.040	0.046	0.057	0.067	0.076	0.086	0.096	0.106	0.116
E	0.010	0.020	0.029	0.038	0.046	0.054	0.067	0.078	0.089	0.101	0.112	0.124	0.135
F	0.012	0.023	0.033	0.043	0.053	0.062	0.076	0.089	0.102	0.115	0.128	0.141	0.154
G	0.013	0.025	0.037	0.049	0.059	0.069	0.086	0.100	0.115	0.130	0.144	0.159	0.174
H	0.014	0.028	0.042	0.054	0.066	0.077	0.095	0.111	0.127	0.144	0.160	0.177	0.193

■ | 0.10 | 0.05

■ Excellent
Excelente
Excelente
Excellent

● Good
Bueno
Bom
Acceptable

DORMER

HSS | HSS-E | HSS-E PM

Z 2 | Z 3 | Z 4 | Z >4 | Ø | Ae (x Ø) | Ap (x Ø) | fz

Ø [mm] fz [mm/Z] ± 25 %

Ø	1	2	3	4	5	6	8	10	12	14	16	18	20	22	25	28	30	32	36	40	50
A	0.004	0.008	0.013	0.017	0.024	0.029	0.043	0.060	0.072	0.084	0.096	0.097	0.096	0.099	0.105	0.109	0.108	0.106	0.108	0.108	0.105
B	0.004	0.007	0.012	0.015	0.022	0.026	0.039	0.054	0.065	0.076	0.086	0.087	0.086	0.089	0.095	0.098	0.097	0.095	0.097	0.097	0.095
C	0.003	0.006	0.011	0.014	0.019	0.023	0.035	0.049	0.058	0.068	0.078	0.079	0.078	0.080	0.085	0.088	0.087	0.086	0.087	0.087	0.085
D	0.004	0.007	0.011	0.014	0.020	0.024	0.037	0.051	0.061	0.071	0.081	0.082	0.081	0.084	0.089	0.099	0.091	0.097	0.091	0.101	0.101
E	0.007	0.012	0.018	0.024	0.035	0.042	0.063	0.087	0.105	0.122	0.140	0.141	0.140	0.144	0.153	0.171	0.157	0.168	0.157	0.175	0.175
F	0.007	0.009	0.013	0.018	0.021	0.025	0.033	0.041	0.050	0.055	0.064	0.072	0.079	0.079	0.085	0.085	0.085	0.085	0.085	0.085	0.085
G						0.026	0.034	0.036	0.043	0.050	0.057	0.064	0.071	0.071	0.054	0.053	0.054	0.053	0.056	0.057	0.060
H						0.023	0.031	0.032	0.039	0.045	0.051	0.058	0.064	0.064	0.049	0.048	0.049	0.048	0.050	0.051	0.054
I						0.021	0.028	0.029	0.035	0.041	0.046	0.052	0.058	0.058	0.044	0.043	0.044	0.043	0.045	0.046	0.049
J						0.024	0.031	0.033	0.039	0.046	0.052	0.059	0.065	0.065	0.049	0.049	0.049	0.049	0.051	0.052	0.055
K						0.035	0.047	0.065	0.079	0.092	0.105	0.088	0.098	0.097	0.110	0.110	0.110	0.110	0.115	0.118	0.123
L						0.010	0.013	0.017	0.020	0.025	0.028	0.030	0.032	0.033	0.034	0.036	0.038	0.039	0.040	0.042	0.042
M		0.008	0.012	0.018	0.023	0.031	0.041	0.057	0.069	0.080	0.091	0.103	0.114	0.090	0.103	0.085	0.091	0.097	0.110	0.107	0.086
N		0.007	0.011	0.016	0.021	0.028	0.037	0.051	0.062	0.072	0.082	0.093	0.103	0.081	0.093	0.077	0.082	0.087	0.099	0.096	0.077
O		0.006	0.010	0.015	0.019	0.025	0.033	0.046	0.056	0.065	0.074	0.083	0.092	0.073	0.083	0.069	0.074	0.079	0.089	0.087	0.070
P		0.007	0.010	0.016	0.020	0.027	0.035	0.049	0.059	0.069	0.079	0.088	0.098	0.078	0.088	0.073	0.079	0.084	0.094	0.092	0.074
Q		0.009	0.014	0.021	0.026	0.036	0.048	0.066	0.079	0.092	0.106	0.089	0.099	0.098	0.111	0.111	0.119	0.127	0.143	0.139	0.148
R		0.012	0.016	0.020	0.025	0.029	0.038	0.047	0.056	0.065	0.073	0.083	0.092	0.092	0.092	0.092	0.092	0.104	0.104	0.108	0.108
S		0.010	0.015	0.023	0.029	0.039	0.051	0.071	0.086	0.100	0.114	0.129	0.143	0.113	0.129	0.107	0.114	0.122	0.137	0.133	0.107
T		0.009	0.014	0.021	0.026	0.035	0.046	0.064	0.077	0.090	0.103	0.116	0.129	0.102	0.116	0.096	0.103	0.110	0.123	0.120	0.096
U		0.008	0.012	0.019	0.023	0.032	0.041	0.058	0.070	0.081	0.092	0.104	0.116	0.092	0.104	0.087	0.092	0.099	0.111	0.108	0.087
V		0.009	0.013	0.020	0.025	0.033	0.044	0.061	0.074	0.086	0.098	0.110	0.123	0.097	0.110	0.092	0.098	0.105	0.118	0.115	0.092
X		0.012	0.017	0.026	0.033	0.045	0.059	0.082	0.099	0.115	0.132	0.111	0.124	0.122	0.139	0.139	0.148	0.158	0.178	0.173	0.186
Y		0.015	0.020	0.025	0.031	0.036	0.047	0.059	0.070	0.081	0.092	0.104	0.115	0.115	0.115	0.115	0.115	0.130	0.130	0.136	0.136

■ Excellent / Excelente / Excelente / Excellent

● Good / Bueno / Bom / Acceptable

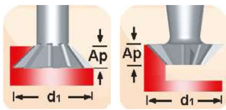
HSS | HSS-E | HSS-E PM

Ø | Ø [mm] fz [mm/Z] ± 25 %

C800
C801
C810
C820
C822
C825

Ø	10	12	16	20	25	32	38	50	63	80	100	125	160	200	300	350
M		0.017	0.022	0.036	0.038	0.041	0.044	0.045	0.047							
N		0.022	0.027	0.045	0.046	0.052	0.058	0.06	0.062							
O		0.025	0.03	0.052	0.055	0.056	0.058	0.06	0.062							
P		0.030	0.043	0.063	0.064	0.062	0.068	0.07	0.072							
Q		0.045	0.048	0.063	0.064	0.066	0.068	0.07	0.072							
R		0.055	0.07	0.115	0.119	0.123	0.126	0.128	0.13							

C830
C835
C837
C831

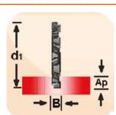


Ø	10	12	16	20	25	32	38	50	63	80	100	125	160	200	300	350
M		0.036	0.045	0.057	0.064	0.074	0.084									
N		0.048	0.058	0.073	0.084	0.095	0.105									
O		0.052	0.063	0.081	0.092	0.103	0.114									
P		0.059	0.071	0.089	0.1	0.112	0.125									
Q		0.072	0.088	0.106	0.12	0.133	0.147									
R		0.079	0.095	0.114	0.13	0.143	0.157									

C700
C710

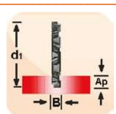
Ø	10	12	16	20	25	32	38	50	63	80	100	125	160	200	300	350
M	0.03	0.03	0.03	0.04	0.05	0.05										
N	0.04	0.04	0.04	0.05	0.06	0.07										
O	0.04	0.04	0.05	0.06	0.07	0.08										
P	0.04	0.04	0.05	0.07	0.08	0.08										
Q	0.05	0.05	0.07	0.08	0.09	0.10										
R	0.06	0.06	0.07	0.09	0.10	0.11										

D745
D747
D750
D751
D752
D753



Ø	10	12	16	20	25	32	38	50	63	80	100	125	160	200	300	350
R						0.040		0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040	0.040
S						0.020		0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
T						0.060		0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060	0.060

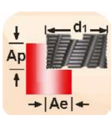
D200
D763



Ap= 0.1 X Ø

Ø	10	12	16	20	25	32	38	50	63	80	100	125	160	200	300	350
M								0.040	0.050	0.060	0.070	0.080	0.090	0.100		
N								0.060	0.070	0.080	0.090	0.100	0.105	0.115		
O								0.070	0.080	0.090	0.100	0.105	0.110	0.120		
P								0.080	0.090	0.095	0.110	0.115	0.115	0.125		
Q								0.090	0.100	0.105	0.110	0.115	0.125	0.135		

D402
D422

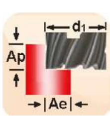


Ae= 0.75 x Ø

Ap= 0.25 x Ø

Ø	40	50	60	80	100	125
G	0.042	0.049	0.040	0.047	0.040	0.037
H	0.050	0.059	0.047	0.055	0.048	0.044
I	0.062	0.071	0.058	0.066	0.058	0.054
J	0.082	0.095	0.078	0.090	0.078	0.073
K	0.118	0.140	0.110	0.130	0.110	0.103
L	0.145	0.171	0.136	0.160	0.136	0.127
M	0.185	0.160	0.170	0.200	0.170	0.160
N	0.270	0.320	0.250	0.290	0.250	0.230

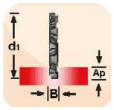
D400
D420



Ae= 0.75 x Ø

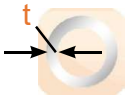
Ap= 0.1 x Ø

Ø	40	50	60	80	100
G	0.042	0.049	0.040	0.047	0.040
H	0.050	0.059	0.047	0.055	0.048
I	0.062	0.071	0.058	0.066	0.058
J	0.082	0.095	0.078	0.090	0.078
K	0.118	0.140	0.110	0.130	0.110
L	0.145	0.171	0.136	0.160	0.136
M	0.185	0.160	0.170	0.200	0.170
N	0.270	0.320	0.250	0.290	0.250



D750
D751
D752
D753

Tooth Pitch Choice
Eleccion De Paso De Dientes
Escolha do Passo do Dente
Choix du pas (nombre de dents)



t (mm)

Ø (mm)

	<1.0 mm	1.0 - 1.5 mm	1.5 - 2.0 mm	2.0 - 3.0 mm	3.0 - 4.0 mm	>4.0 mm	10 - 20 mm	20 - 40 mm	40 - 60 mm	
1.1	3	4	5	5	6	7	5	8		P 1
1.2	3	4	4	5	6	7	5	6		P 1
1.3	3	4	4	5	6	7	5	6		P 2
1.4	3	4	4	5	6	7	5	6		P 3
1.5	3	3	4	5	5	6	5	6	8	P 4
1.6										H 1
1.7										H 3
1.8										H 4
2.1	3	4	5	5	6	6	5	6	8	M 1
2.2	3	4	5	5	6	6	5	6	8	M 3
2.3	3	4	5	5	6	6	5	6	8	M 2
2.4	3	4	5	5	6	6	5	6	8	S 2
3.1							6	8		K 1
3.2							6	8		K 2
3.3							6	8		K 3
3.4							6	8		K 4
4.1										S 1
4.2										S 2
4.3										S 3
5.1										S 1
5.2										S 2
5.3										S 3
6.1	4	5	6	7	8	8	6	8		N 3
6.2	4	5	6	7	8	8	8			N 4
6.3	4	5	6	7	8	8	8			N 3
6.4	4	5	6	7	8		6	8		N 4
7.1	4	5	6	7	8	8	6	8		N 1
7.2	4	5	6	7	8	8	6	8		N 1
7.3	4	5	6	7	8	8	6	8		N 1
7.4	4	5	6	7	8	8	6	8		N 2
8.1										O
8.2										O
8.3										O
9.1										H
10.1										O

Hollow tube
Tubo Hueco
Tubo
Tube creux

Solid section
Barra Maciza
Varão Maciço
Tube plein

DORMER

S802HA
S802HB

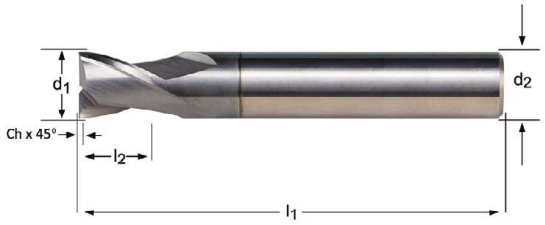
- Slot Drill
- Fresas de ranurar
- Fresa de Ranhurar
- Fraises à rainurer

S802HA; S802HB

▪ 1.1 1.2 1.3 1.4 1.5 1.6 2.1 2.2 3.1 3.2 3.3 3.4 6.2 6.3 6.4 7.2 7.3 7.4

• 2.3 2.4 4.1 4.2 5.1 5.2 6.1 7.1 8.1 8.2

S802HA	HM	P9	N	Z 2		λ 28° γ 9°	DIN 6535HA	Alcrona				DIN 6527K
S802HB	HM	P9	N	Z 2		λ 28° γ 9°	DIN 6535HB	Alcrona				DIN 6527K



S802HA	S802HB
	
1.00 - 20.00	1.80 - 20.00

d_1 Ø mm	Ch ±0.03x45° mm	d_2 Øh$_6$ mm	l_2 mm	l_1 mm	z	S802HA	S802HB
1.00	-	3	3	38	2	S802HA1.0	
1.50	-	3	3	38	2	S802HA1.5	
2.00	-	6	3	50	2	S802HA2.0	S802HB2.0
2.50	0.08	6	3	50	2	S802HA2.5	S802HB2.5
3.00	0.08	6	4	50	2	S802HA3.0	S802HB3.0
3.50	0.08	6	4	50	2	S802HA3.5	S802HB3.5
4.00	0.13	6	5	54	2	S802HA4.0	S802HB4.0
4.50	0.13	6	5	54	2	S802HA4.5	S802HB4.5
5.00	0.13	6	6	54	2	S802HA5.0	S802HB5.0
6.00	0.13	6	7	54	2	S802HA6.0	S802HB6.0
7.00	0.13	8	8	58	2	S802HA7.0	S802HB7.0
8.00	0.20	8	9	58	2	S802HA8.0 [1)]	S802HB8.0 [1)]
9.00	0.20	10	10	66	2	S802HA9.0 [1)]	S802HB9.0 [1)]
10.00	0.20	10	11	66	2	S802HA10.0 [1)]	S802HB10.0 [1)]
12.00	0.20	12	12	73	2	S802HA12.0 [1)]	S802HB12.0 [1)]
14.00	0.20	14	14	75	2	S802HA14.0 [1)]	S802HB14.0 [1)]
16.00	0.20	16	16	82	2	S802HA16.0 [1)]	S802HB16.0 [1)]
18.00	0.20	18	18	84	2	S802HA18.0 [1)]	S802HB18.0 [1)]
20.00	0.30	20	20	92	2	S802HA20.0 [1)]	S802HB20.0 [1)]

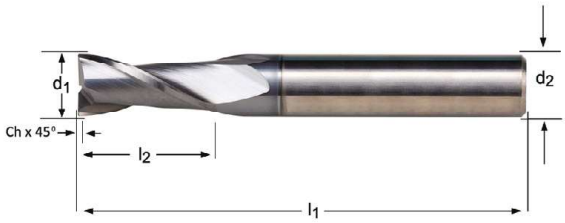
[1)] Ch ±0.05x45° mm

S812HA
S812HB

- Slot Drill
- Fresas de ranurar
- Fresa de Ranhurar
- Fraises à rainurer

S812HA; S812HB ▪ 1.1 1.2 1.3 1.4 1.5 1.6 2.1 2.2 2.3 3.1 3.2 3.3 3.4 4.1 4.2 5.1 5.2 6.1 6.2 6.3 6.4 7.1 7.2 7.3 7.4 8.1 8.2

S812HA	HM	P9	N	Z 2		λ 28° γ 9°	DIN 6535HA	Alcrona			DIN 6527L
S812HB	HM	P9	N	Z 2		λ 28° γ 9°	DIN 6535HB	Alcrona			DIN 6527L



S812HA	S812HB
	
2.00 - 20.00	2.00 - 20.00

d_1 Ø mm	Ch ±0.03x45° mm	d_2 Øh$_6$ mm	l_2 mm	l_1 mm	z	S812HA	S812HB
2.00	-	6	6	57	2	S812HA2.0	S812HB2.0
2.50	0.08	6	7	57	2	S812HA2.5	S812HB2.5
3.00	0.08	6	7	57	2	S812HA3.0	S812HB3.0
3.50	0.08	6	7	57	2	S812HA3.5	S812HB3.5
4.00	0.13	6	8	57	2	S812HA4.0	S812HB4.0
4.50	0.13	6	8	57	2	S812HA4.5	S812HB4.5
5.00	0.13	6	10	57	2	S812HA5.0	S812HB5.0
6.00	0.13	6	10	57	2	S812HA6.0	S812HB6.0
7.00	0.13	8	13	63	2	S812HA7.0	S812HB7.0
8.00	0.20	8	16	63	2	S812HA8.0 [1)]	S812HB8.0 [1)]
9.00	0.20	10	16	72	2	S812HA9.0 [1)]	S812HB9.0 [1)]
10.00	0.20	10	19	72	2	S812HA10.0 [1)]	S812HB10.0 [1)]
12.00	0.20	12	22	83	2	S812HA12.0 [1)]	S812HB12.0 [1)]
14.00	0.20	14	22	83	2	S812HA14.0 [1)]	S812HB14.0 [1)]
16.00	0.20	16	26	92	2	S812HA16.0 [1)]	S812HB16.0 [1)]
18.00	0.20	18	26	92	2	S812HA18.0 [1)]	S812HB18.0 [1)]
20.00	0.30	20	32	104	2	S812HA20.0 [1)]	S812HB20.0 [1)]

[1)] Ch ±0.05x45° mm

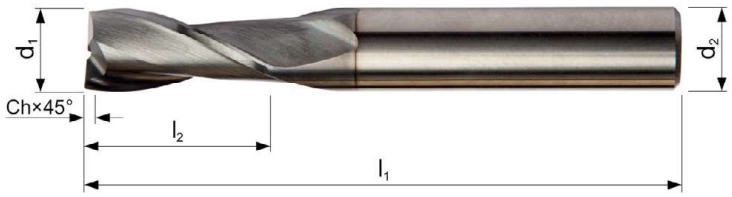
DORMER

S822

- Slot Drill
- Fresas de ranurar
- Fresa de Ranhurar
- Fraises à rainurer

S822 ■	1.1	1.2	1.3	1.4	1.5	1.6	2.1	2.2	2.3	3.1	3.2	3.3	3.4	4.1	4.2	5.1	5.2	6.1	6.2	6.3
	6.4	7.1	7.2	7.3	7.4	8.1	8.2													

S822	HM	P9	N	Z 2		λ 28° γ 9°	DIN 6535HA	Alcrona			DORMER



S822

2.00 - 20.00

d_1 Ø mm	Ch ±0.03x45° mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	S822
2.00	-	6	8	57	2	S8222.0
2.50	0.08	6	12	57	2	S8222.5
3.00	0.08	6	12	57	2	S8223.0
4.00	0.13	6	14	57	2	S8224.0
5.00	0.13	6	16	57	2	S8225.0
6.00	0.13	6	19	57	2	S8226.0
7.00	0.13	8	19	63	2	S8227.0
8.00	0.20	8	19	63	2	S8228.0 [1]
9.00	0.20	10	21	72	2	S8229.0 [1]
10.00	0.20	10	22	72	2	S82210.0 [1]
12.00	0.20	12	25	83	2	S82212.0 [1]
14.00	0.20	14	30	83	2	S82214.0 [1]
16.00	0.20	16	32	92	2	S82216.0 [1]
18.00	0.20	18	32	92	2	S82218.0 [1]
20.00	0.30	20	38	104	2	S82220.0 [1]

[1] Ch ±0.05x45° mm

S803HA
S803HB

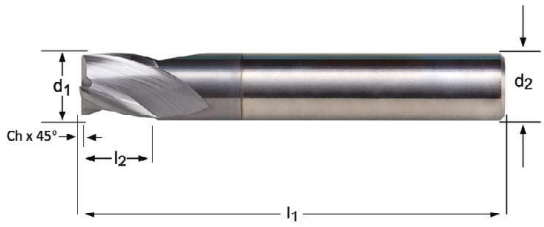
- Slot Drill
- Fresas de ranurar
- Fresa de Ranhurar
- Fraises à rainurer

S803HA; S803HB

▪ 1.1 1.2 1.3 1.4 1.5 1.6 2.1 2.2 3.1 3.2 3.3 3.4 6.2 6.3 6.4 7.2 7.3 7.4

• 2.3 2.4 4.1 4.2 5.1 5.2 6.1 7.1 8.1 8.2

S803HA	HM	P9	N	Z 3		λ 28° γ 9°	DIN 6535HA	Alcrona				DIN 6527K
S803HB	HM	P9	N	Z 3		λ 28° γ 9°	DIN 6535HB	Alcrona				DIN 6527K



S803HA	S803HB
	
1.00 - 20.00	1.80 - 20.00

d_1 Ø mm	Ch ±0.03x45° mm	d_2 Øh$_6$ mm	l_2 mm	l_1 mm	z	S803HA	S803HB
1.00	-	3	3	38	3	S803HA1.0	
1.50	-	3	3	38	3	S803HA1.5	
2.00	-	6	3	50	3	S803HA2.0	S803HB2.0
2.50	0.08	6	3	50	3	S803HA2.5	S803HB2.5
2.80	0.08	6	4	50	3	S803HA2.8	S803HB2.8
3.00	0.08	6	4	50	3	S803HA3.0	S803HB3.0
3.50	0.08	6	4	50	3	S803HA3.5	S803HB3.5
3.80	0.08	6	5	54	3	S803HA3.8	S803HB3.8
4.00	0.13	6	5	54	3	S803HA4.0	S803HB4.0
4.50	0.13	6	5	54	3	S803HA4.5	S803HB4.5
4.80	0.13	6	6	54	3	S803HA4.8	S803HB4.8
5.00	0.13	6	6	54	3	S803HA5.0	S803HB5.0
5.75	0.13	6	7	54	3		S803HB5.75
6.00	0.13	6	7	54	3	S803HA6.0	S803HB6.0
6.75	0.13	8	8	58	3		S803HB6.75
7.00	0.13	8	8	58	3	S803HA7.0	S803HB7.0
7.75	0.13	8	9	58	3		S803HB7.75
8.00	0.20	8	9	58	3	S803HA8.0 [1)]	S803HB8.0 [1)]
9.00	0.20	10	10	66	3	S803HA9.0 [1)]	S803HB9.0 [1)]
9.70	0.20	10	11	66	3	[1)]	S803HB9.7 [1)]
10.00	0.20	10	11	66	3	S803HA10.0 [1)]	S803HB10.0 [1)]
11.70	0.20	12	12	73	3	[1)]	S803HB11.7 [1)]
12.00	0.20	12	12	73	3	S803HA12.0 [1)]	S803HB12.0 [1)]
14.00	0.20	14	14	75	3	S803HA14.0 [1)]	S803HB14.0 [1)]
16.00	0.20	16	16	82	3	S803HA16.0 [1)]	S803HB16.0 [1)]
18.00	0.20	18	18	84	3	S803HA18.0 [1)]	S803HB18.0 [1)]
20.00	0.30	20	20	92	3	S803HA20.0 [1)]	S803HB20.0 [1)]

[1)] Ch ±0.05x45° mm

S813HA
S813HB

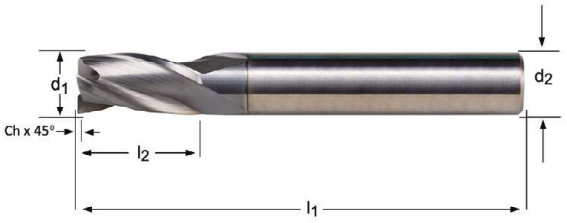
- Slot Drill
- Fresas de ranurar
- Fresa de Ranhurar
- Fraises à rainurer

S813HA; S813HB

▪ 1.1 1.2 1.3 1.4 1.5 2.1 3.1 3.2 3.3 3.4 6.2 6.3 6.4 7.2 7.3 7.4

• 1.6 2.2 2.3 4.1 4.2 5.1 5.2 6.1 7.1 8.1 8.2

S813HA	HM	P9	N	Z 3		λ 28° γ 9°	DIN 6535HA	Alcrona				DIN 6527L
S813HB	HM	P9	N	Z 3		λ 28° γ 9°	DIN 6535HB	Alcrona				DIN 6527L



S813HA	S813HB
	
2.00 - 20.00	2.00 - 20.00

d_1 Ø mm	Ch ±0.03x45° mm	d_2 Øh$_6$ mm	l_2 mm	l_1 mm	z	S813HA	S813HB
2.00	0.00	6	6	57	3	S813HA2.0	S813HB2.0
2.50	0.08	6	7	57	3	S813HA2.5	S813HB2.5
3.00	0.08	6	7	57	3	S813HA3.0	S813HB3.0
3.50	0.08	6	7	57	3	S813HA3.5	S813HB3.5
4.00	0.13	6	8	57	3	S813HA4.0	S813HB4.0
4.50	0.13	6	8	57	3	S813HA4.5	S813HB4.5
5.00	0.13	6	10	57	3	S813HA5.0	S813HB5.0
6.00	0.13	6	10	57	3	S813HA6.0	S813HB6.0
7.00	0.13	8	13	63	3	S813HA7.0	S813HB7.0
8.00	0.20	8	16	63	3	S813HA8.0 [1)]	S813HB8.0 [1)]
9.00	0.20	10	16	72	3	S813HA9.0 [1)]	S813HB9.0 [1)]
10.00	0.20	10	19	72	3	S813HA10.0 [1)]	S813HB10.0 [1)]
12.00	0.20	12	22	83	3	S813HA12.0 [1)]	S813HB12.0 [1)]
14.00	0.20	14	22	83	3	S813HA14.0 [1)]	S813HB14.0 [1)]
16.00	0.20	16	26	92	3	S813HA16.0 [1)]	S813HB16.0 [1)]
18.00	0.20	18	26	92	3	S813HA18.0 [1)]	S813HB18.0 [1)]
20.00	0.30	20	32	104	3	S813HA20.0 [1)]	S813HB20.0 [1)]

[1)] Ch ±0.05x45° mm

S823

- Slot Drill
- Fresas de ranurar
- Fresa de Ranhurar
- Fraises à rainurer

S823																	
	■	1.1	1.2	1.3	1.4	1.5	2.1	3.1	3.2	3.3	3.4	6.2	6.3	6.4	7.2	7.3	7.4
	•	1.6	2.2	2.3	4.1	4.2	5.1	5.2	6.1	7.1	8.1	8.2					

S823	HM	P9	N	Z 3	λ 28° γ 9°	DIN 6535HA	Alcrona			DORMER

S823

2.00 - 20.00

d_1 Ø mm	Ch ±0.03x45° mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	S823
2.00	-	6	8	57	3	S8232.0
2.50	0.08	6	12	57	3	S8232.5
3.00	0.08	6	12	57	3	S8233.0
4.00	0.13	6	14	57	3	S8234.0
5.00	0.13	6	16	57	3	S8235.0
6.00	0.13	6	19	57	3	S8236.0
7.00	0.13	8	19	63	3	S8237.0
8.00	0.20	8	19	63	3	S8238.0 [1)]
9.00	0.20	10	21	72	3	S8239.0 [1)]
10.00	0.20	10	22	72	3	S82310.0 [1)]
12.00	0.20	12	25	83	3	S82312.0 [1)]
14.00	0.20	14	30	83	3	S82314.0 [1)]
16.00	0.20	16	32	92	3	S82316.0 [1)]
18.00	0.20	18	32	92	3	S82318.0 [1)]
20.00	0.30	20	38	104	3	S82320.0 [1)]

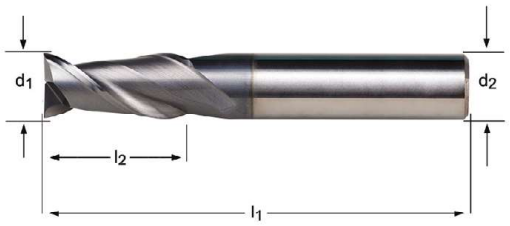
[1)] Ch ±0.05x45° mm

S710

- End Mill
- Fresas de acabado
- Fresa de Acabamento
- Fraises de finition

S710 ▪ 1.1 1.2 1.3 1.4 1.5 2.1 2.2 3.1 3.2 3.3 3.4 4.2 5.2

S710 | HM | N | Z 2 | λ 40° γ 10° | DIN 6535HA | AlCrN | h9 | DORMER



S710

1.00 - 20.00

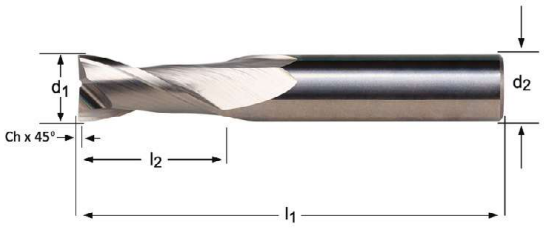
d_1 Ø mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	S710
1.00	3	3	40	2	S7101.0
1.50	3	4.5	40	2	S7101.5
2.00	3	6.5	40	2	S7102.0
2.50	3	6.5	40	2	S7102.5
3.00	6	9	50	2	S7103.0
4.00	6	12	50	2	S7104.0
5.00	6	15	50	2	S7105.0
6.00	6	20	60	2	S7106.0
8.00	8	20	64	2	S7108.0
10.00	10	22	75	2	S71010.0
12.00	12	25	75	2	S71012.0
16.00	16	32	90	2	S71016.0
20.00	20	38	100	2	S71020.0

S902
S922

- End Mill
- Fresas de acabado
- Fresa de Acabamento
- Fraises de finition

S902	■	1.1	1.2	1.3	1.4	3.1	3.3	4.1	5.1	6.1	6.2	6.3		
	•	1.5	3.2	3.4	4.2	4.3	6.4	7.1	7.2	7.3	8.1	8.2	8.3	
S922	■	1.1	1.2	1.3	1.4	1.5	3.1	3.2	3.3	3.4	4.1	5.1	6.1	6.2	6.3
	•	1.6	4.2	4.3	6.4	7.1	7.2	7.3	8.1	8.2	8.3				

S902	HM		N	Z 2		λ30° γ12°	DIN 6535HA		h10		DORMER	
S922	HM		N	Z 2		λ30° γ12°	DIN 6535HB	TiAlN	h10		DORMER	S991 437



S902	S922
	
2.00 - 20.00	2.00 - 20.00

d_1 Ø mm	Ch ±0.03x45° mm	d_2 Øh$_6$ mm	l_2 mm	l_1 mm	z	S902	S922
2.00	0.08	3	6	38	2	S9022.0	S9222.0 [2]
2.50	0.08	3	9	38	2	S9022.5	S9222.5 [2]
3.00	0.08	3	12	38	2	S9023.0	S9223.0 [2]
4.00	0.08	4	14	50	2	S9024.0	S9224.0 [2]
5.00	0.13	5	16	50	2	S9025.0	S9225.0 [2]
6.00	0.13	6	19	57	2	S9026.0	S9226.0
7.00	0.13	8	19	63	2	S9027.0	S9227.0
8.00	0.13	8	19	63	2	S9028.0	S9228.0
9.00	0.13	10	21	72	2	S9029.0	S9229.0
10.00	0.18	10	22	72	2	S90210.0	S92210.0
12.00	0.20	12	25	73	2	S90212.0 [1]	S92212.0 [1]
14.00	0.20	14	30	83	2	S90214.0 [1]	S92214.0 [1]
16.00	0.20	16	32	92	2	S90216.0 [1]	S92216.0 [1]
18.00	0.20	18	32	92	2	S90218.0 [1]	S92218.0 [1]
20.00	0.30	20	38	104	2	S90220.0 [1]	S92220.0 [1]

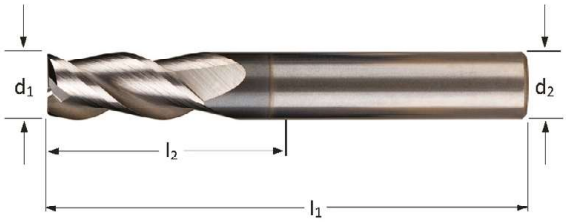
[1] Ch ±0.05x45° mm
[2] Cylindrical shank / Mango cilíndrico / Haste cilíndrica / queue cylindrique

S713

- End Mill
- Fresas de acabado
- Fresa de Acabamento
- Fraises de finition

S713 ▪ 1.1 1.2 1.3 1.4 1.5 2.1 2.2 3.1 3.2 3.3 3.4 4.2 5.2

S713 HM | N | Z 3 | λ 40° γ 10° | DIN 6535HA | AlCrN | h9 | DORMER



S713

1.50 - 20.00

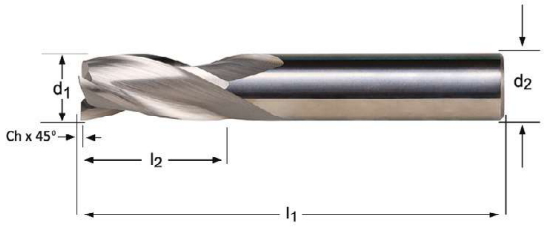
d_1 Ø mm	d_2 Øh$_6$ mm	l_2 mm	l_1 mm	z	S713
1.50	4	4.5	40	3	S7131.5
2.00	4	6.5	40	3	S7132.0
3.00	3	9	40	3	S7133.0
4.00	4	12	50	3	S7134.0
5.00	5	15	50	3	S7135.0
6.00	6	16	50	3	S7136.0
8.00	8	20	64	3	S7138.0
10.00	10	22	70	3	S71310.0
12.00	12	25	75	3	S71312.0
14.00	14	32	90	3	S71314.0
16.00	16	32	90	3	S71316.0
18.00	18	38	100	3	S71318.0
20.00	20	38	100	3	S71320.0

S903
S933

- End Mill
- Fresas de acabado
- Fresa de Acabamento
- Fraises de finition

S903	■	1.1	1.2	1.3	1.4	3.1	3.3	4.1	5.1	6.1	6.2	6.3		
	•	1.5	3.2	3.4	4.2	4.3	6.4	7.1	7.2	7.3	8.1	8.2	8.3	
S933	■	1.1	1.2	1.3	1.4	1.5	3.1	3.2	3.3	3.4	4.1	5.1	6.1	6.2	6.3
	•	1.6	4.2	4.3	6.4	7.1	7.2	7.3	8.1	8.2	8.3				

S903	HM		N	Z 3		λ 30° γ 12°	DIN 6535HA		h10		DORMER	
S933	HM		N	Z 3		λ 30° γ 12°	DIN 6535HB	TiAlN	h10		DORMER	S991 437



S903	S933
	
2.00 - 20.00	2.00 - 20.00

d_1 Ø mm	Ch ±0.03x45° mm	d_2 Øh$_6$ mm	l_2 mm	l_1 mm	z	S903	S933
2.00	0.08	3	6	38	3	S9032.0	S9332.0 [2]
2.50	0.08	3	9	38	3	S9032.5	S9332.5 [2]
3.00	0.08	3	12	38	3	S9033.0	S9333.0 [2]
4.00	0.08	4	14	50	3	S9034.0	S9334.0 [2]
5.00	0.13	5	16	50	3	S9035.0	S9335.0 [2]
6.00	0.13	6	19	57	3	S9036.0	S9336.0
7.00	0.13	8	19	63	3	S9037.0	S9337.0
8.00	0.13	8	19	63	3	S9038.0	S9338.0
9.00	0.13	10	21	72	3	S9039.0	S9339.0
10.00	0.20	10	22	72	3	S90310.0 [1]	S93310.0 [1]
12.00	0.20	12	25	73	3	S90312.0 [1]	S93312.0 [1]
14.00	0.20	14	30	83	3	S90314.0 [1]	S93314.0 [1]
16.00	0.20	16	32	92	3	S90316.0 [1]	S93316.0 [1]
18.00	0.20	18	32	92	3	S90318.0 [1]	S93318.0 [1]
20.00	0.30	20	38	104	3	S90320.0 [1]	S93320.0 [1]

[1] Ch ±0.05x45° mm
[2] Cylindrical shank / Mango cilíndrico / Haste cilíndrica / queue cylindrique

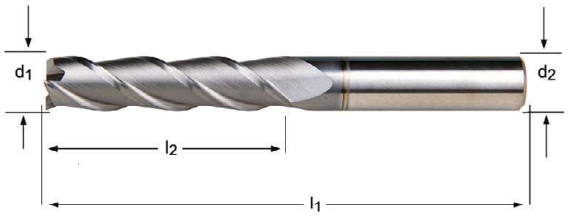
DORMER

S714

- End Mill
- Fresas de acabado
- Fresa de Acabamento
- Fraises de finition

S714	■	1.1	1.2	1.3	1.4	1.5	2.1	2.2	3.1	3.2	3.3	3.4	4.2	5.2
	•	6.1	6.2	6.3	6.4	7.1	7.2	7.3	7.4					

S714	HM		N	Z 3		λ 40° γ 10°	DIN 6535HA	AlCrN	h9		DORMER



S714

3.00 - 20.00

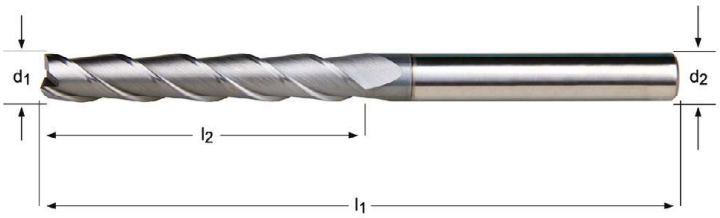
d_1 Ø mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	S714
3.00	3	19	60	3	S7143.0
4.00	4	19	60	3	S7144.0
5.00	5	19	60	3	S7145.0
6.00	6	31	75	3	S7146.0
8.00	8	31	75	3	S7148.0
10.00	10	31	75	3	S71410.0
12.00	12	50	100	3	S71412.0
14.00	14	57	125	3	S71414.0
16.00	16	57	125	3	S71416.0
18.00	18	57	125	3	S71418.0
20.00	20	57	125	3	S71420.0

S715

- End Mill
- Fresas de acabado
- Fresa de Acabamento
- Fraises de finition

S715														
	■	1.1	1.2	1.3	1.4	1.5	2.1	2.2	3.1	3.2	3.3	3.4	4.2	5.2
	•	6.1	6.2	6.3	6.4	7.1	7.2	7.3	7.4					

S715	HM		N	Z 3		λ 40° γ 10°	DIN 6535HA	AlCrN	h9		DORMER



S715

3.00 - 20.00

d_1 Ø mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	S715
3.00	3	25	100	3	S7153.0
4.00	4	31	100	3	S7154.0
5.00	5	31	100	3	S7155.0
6.00	6	38	100	3	S7156.0
8.00	8	41	100	3	S7158.0
10.00	10	57	125	3	S71510.0
12.00	12	75	150	3	S71512.0
14.00	14	75	150	3	S71514.0
16.00	16	75	150	3	S71516.0
18.00	18	75	150	3	S71518.0
20.00	20	75	150	3	S71520.0

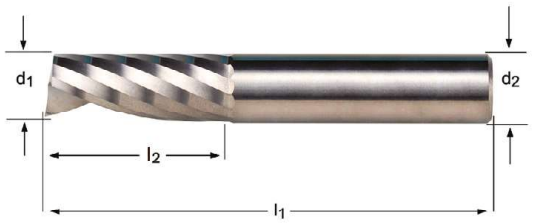
DORMER

S637

- End Mill
- Fresas de acabado
- Fresa de Acabamento
- Fraises de finition

S637 ▪ 6.1 6.2 6.3 6.4 7.1 7.2 7.3 7.4 8.1 8.2

S637	HM		W	Z 1		λ 25° γ 20°	DIN 6535HA	Hi	h9		DORMER



S637

2.00 - 12.00

d_1 Ø mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	S637
2.00	2	10	40	1	S6372.0
3.00	3	12	40	1	S6373.0
4.00	4	15	50	1	S6374.0
5.00	5	16	50	1	S6375.0
6.00	6	20	60	1	S6376.0
8.00	8	22	63	1	S6378.0
10.00	10	25	72	1	S63710.0
12.00	12	30	83	1	S63712.0

S638

- End Mill
- Fresas de acabado
- Fresa de Acabamento
- Fraises de finition

Reduced shank
Mango reducido
Encabadouro reduzido
Queue réduite

S638 ▪ 6.1 6.2 6.3 6.4 7.1 7.2 7.3 7.4 8.1 8.2

d_1 Ø mm	r ±0.02 mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	S638
6.20	0.10	6	8	100	2	S6386.2
8.20	0.10	8	10	100	2	S6388.2
10.30	0.10	10	14	125	2	S63810.3
12.30	0.10	12	16	125	2	S63812.3
16.30	0.10	16	20	125	2	S63816.3
20.30	0.10	20	25	125	2	S63820.3

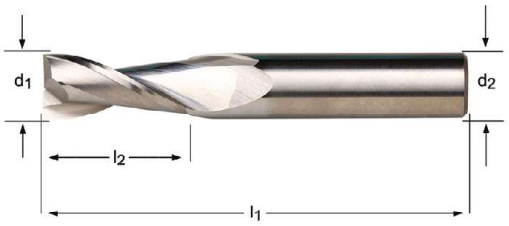
DORMER

S610

- End Mill
- Fresas de acabado
- Fresa de Acabamento
- Fraises de finition

S610 ▪ 6.1 6.2 6.3 6.4 7.1 7.2 7.3 7.4 8.1 8.2

S610 HM | W | Z 2 | λ 30° γ 20° | DIN 6535HA | Hi | h9 | DORMER



S610

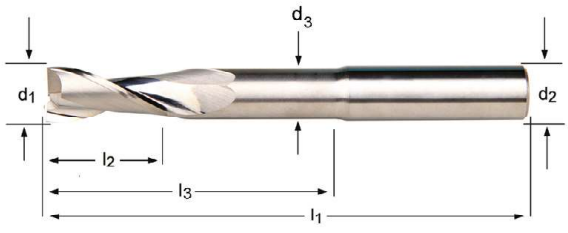
3.00 - 20.00

d_1 Ø mm	r ±0.02 mm	d_2 Øh$_6$ mm	l_2 mm	l_1 mm	z	S610
3.00	0.10	3	9	40	2	S6103.0XD3
3.00	0.10	6	9	50	2	S6103.0XD6
4.00	0.10	4	12	50	2	S6104.0XD4
4.00	0.10	6	12	50	2	S6104.0XD6
5.00	0.10	6	15	50	2	S6105.0
6.00	0.10	6	20	50	2	S6106.0
8.00	0.10	8	20	64	2	S6108.0
10.00	0.10	10	22	75	2	S61010.0
12.00	0.10	12	25	75	2	S61012.0
14.00	0.10	14	32	90	2	S61014.0
16.00	0.10	16	32	90	2	S61016.0
20.00	0.10	20	38	100	2	S61020.0

S611

- End Mill
- Fresas de acabado
- Fresa de Acabamento
- Fraises de finition

S611 ▪ 6.1 6.2 6.3 6.4 7.1 7.2 7.3 7.4 8.1 8.2



d_1 Ø mm	r ±0.02 mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	S611
6.00	0.10	6	16	80	2	40.0	5.5	S6116.0
8.00	0.10	8	20	80	2	40.0	7.4	S6118.0
10.00	0.10	10	22	100	2	60.0	9.2	S61110.0
12.00	0.10	12	25	100	2	60.0	11.0	S61112.0
14.00	0.10	14	32	125	2	75.0	13.0	S61114.0
16.00	0.10	16	32	125	2	75.0	15.0	S61116.0
20.00	0.10	20	38	125	2	75.0	19.0	S61120.0

DORMER

S804HA
S804HB

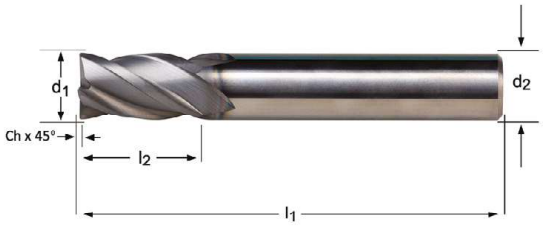
- End Mill
- Fresas de acabado
- Fresa de Acabamento
- Fraises de finition

S804HA; S804HB

▪ 1.1 1.2 1.3 1.4 1.5 1.6 2.1 2.2 3.1 3.2 3.3 3.4 6.2 6.3 6.4

• 2.3 2.4 4.1 4.2 5.1 5.2 6.1 7.1 7.2 7.3 7.4 8.1 8.2

S804HA	HM		N	Z 4		λ 34° γ 9°	DIN 6535HA	Alcrona	h10		DIN 6527K
S804HB	HM		N	Z 4		λ 34° γ 9°	DIN 6535HB	Alcrona	h10		DIN 6527K



S804HA	S804HB
	
2.00 - 25.00	2.00 - 25.00

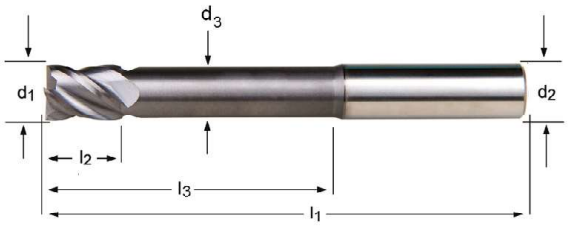
d_1 Ø mm	Ch ±0.03x45° mm	d_2 Øh$_6$ mm	l_2 mm	l_1 mm	z	S804HA	S804HB
2.00	-	6	4	50	4	S804HA2.0	S804HB2.0
3.00	0.08	6	5	50	4	S804HA3.0	S804HB3.0
4.00	0.13	6	8	54	4	S804HA4.0	S804HB4.0
5.00	0.13	6	9	54	4	S804HA5.0	S804HB5.0
6.00	0.13	6	10	54	4	S804HA6.0	S804HB6.0
8.00	0.13	8	12	58	4	S804HA8.0	S804HB8.0
10.00	0.20	10	14	66	4	S804HA10.0 [1)]	S804HB10.0 [1)]
12.00	0.20	12	16	73	4	S804HA12.0 [1)]	S804HB12.0 [1)]
16.00	0.20	16	22	82	4	S804HA16.0 [1)]	S804HB16.0 [1)]
20.00	0.30	20	26	92	4	S804HA20.0 [1)]	S804HB20.0 [1)]
25.00	0.30	25	32	121	4	S804HA25.0 [1)]	S804HB25.0 [1)]

[1)] Ch ±0.05x45° mm

S219

- End Mill
- Fresas de acabado
- Fresa de Acabamento
- Fraises de finition

S219 ▪ 1.6 2.3 2.4 4.3 5.3



3.00 - 20.00

d_1 Ø mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	S219
3.00	3	5	60	4	30.0	2.8	S2193.0
4.00	4	8	60	4	32.0	3.7	S2194.0
5.00	5	9	60	4	32.0	4.6	S2195.0
6.00	6	10	75	4	40.0	5.5	S2196.0
8.00	8	12	75	4	40.0	7.4	S2198.0
10.00	10	14	75	4	40.0	9.2	S21910.0
12.00	12	16	100	4	60.0	11.0	S21912.0
14.00	14	22	125	4	85.0	13.0	S21914.0
16.00	16	22	125	4	85.0	15.0	S21916.0
18.00	18	26	125	4	85.0	17.0	S21918.0
20.00	20	26	125	4	85.0	19.0	S21920.0

DORMER

S814HA
S814HB

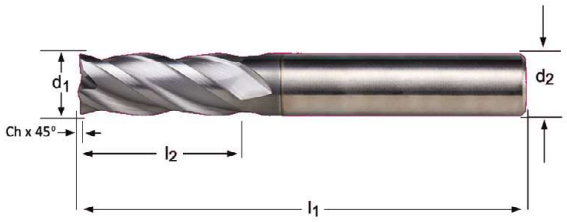
- End Mill
- Fresas de acabado
- Fresa de Acabamento
- Fraises de finition

S814HA; S814HB

▪ 1.1 1.2 1.3 1.4 1.5 2.1 3.1 3.2 3.3 3.4 6.2 6.3 6.4

• 1.6 2.2 2.3 4.1 4.2 5.1 5.2 6.1 7.1 7.2 7.3 7.4 8.1 8.2

S814HA	HM		N	Z 4		λ 34° γ 9°	DIN 6535HA	 Alcrona	h10		DIN 6527L
S814HB	HM		N	Z 4		λ 34° γ 9°	DIN 6535HB	 Alcrona	h10		DIN 6527L



S814HA	S814HB
	
2.00 - 25.00	2.00 - 25.00

d_1 Ø mm	Ch ±0.03x45° mm	d_2 Øh$_6$ mm	l_2 mm	l_1 mm	z	S814HA	S814HB
2.00	0.00	6	7	57	4	S814HA2.0	S814HB2.0
3.00	0.08	6	8	57	4	S814HA3.0	S814HB3.0
4.00	0.13	6	11	57	4	S814HA4.0	S814HB4.0
5.00	0.13	6	13	57	4	S814HA5.0	S814HB5.0
6.00	0.13	6	13	57	4	S814HA6.0	S814HB6.0
8.00	0.13	8	19	63	4	S814HA8.0	S814HB8.0
10.00	0.20	10	22	72	4	S814HA10.0 [1)]	S814HB10.0 [1)]
12.00	0.20	12	26	83	4	S814HA12.0 [1)]	S814HB12.0 [1)]
16.00	0.20	16	32	92	4	S814HA16.0 [1)]	S814HB16.0 [1)]
20.00	0.30	20	38	104	4	S814HA20.0 [1)]	S814HB20.0 [1)]
25.00	0.30	25	45	121	4	S814HA25.0 [1)]	S814HB25.0 [1)]

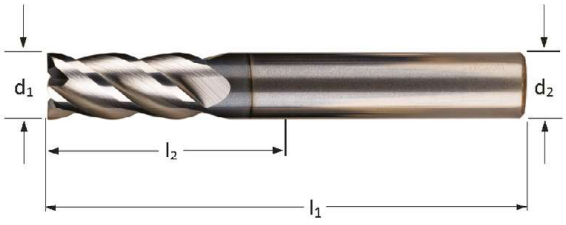
[1)] Ch ±0.05x45° mm

S716

- End Mill
- Fresas de acabado
- Fresa de Acabamento
- Fraises de finition

S716 ▪ 1.1 1.2 1.3 1.4 1.5 2.1 2.2 3.1 3.2 3.3 3.4 4.2 5.2

S716 | HM | N | Z 4 | λ40° γ10° | DIN 6535HA | AlCrN | h9 | DORMER



S716

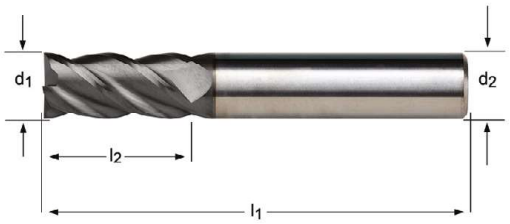
2.00 - 20.00

d_1 Ø mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	S716
2.00	4	6.5	40	4	S7162.0
3.00	3	9	40	4	S7163.0
4.00	4	12	50	4	S7164.0
5.00	5	15	50	4	S7165.0
6.00	6	16	50	4	S7166.0
8.00	8	20	64	4	S7168.0
10.00	10	22	70	4	S71610.0
12.00	12	25	75	4	S71612.0
14.00	14	32	90	4	S71614.0
16.00	16	32	90	4	S71616.0
18.00	18	38	100	4	S71618.0
20.00	20	38	100	4	S71620.0

S612

- End Mill
- Fresas de acabado
- Fresa de Acabamento
- Fraises de finition

S612 ▪ **10.1**

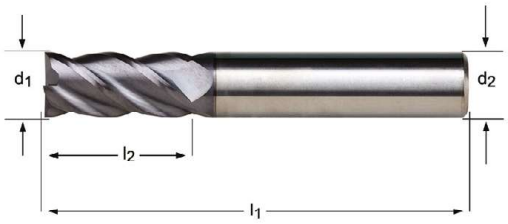


d_1 Ø mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	S612
1.00	3	3	50	4	S6121.0
1.50	3	4.5	50	4	S6121.5
2.00	3	6.5	50	4	S6122.0
2.50	3	6.5	50	4	S6122.5
3.00	3	9	50	4	S6123.0
4.00	4	12	50	4	S6124.0
5.00	5	15	50	4	S6125.0
6.00	6	20	60	4	S6126.0
8.00	8	20	64	4	S6128.0
10.00	10	22	70	4	S61210.0
12.00	12	25	75	4	S61212.0

S216

- End Mill
- Fresas de acabado
- Fresa de Acabamento
- Fraises de finition

S216 ▪ 1.6 2.3 2.4 4.3 5.3



d_1 Ø mm	d_2 Øh$_6$ mm	l_2 mm	l_1 mm	z	S216
2.00	4	6.5	40	4	S2162.0
3.00	3	9	40	4	S2163.0XD3
3.00	6	9	50	4	S2163.0XD6
4.00	4	12	50	4	S2164.0XD4
4.00	6	12	50	4	S2164.0XD6
5.00	5	15	50	4	S2165.0
6.00	6	16	50	4	S2166.0
8.00	8	20	64	4	S2168.0
10.00	10	22	70	4	S21610.0
12.00	12	25	75	4	S21612.0
14.00	14	32	90	4	S21614.0
16.00	16	32	90	4	S21616.0
18.00	18	38	100	4	S21618.0
20.00	20	38	100	4	S21620.0

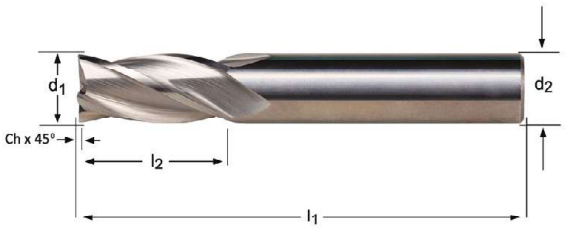
DORMER

S904
S944

- End Mill
- Fresas de acabado
- Fresa de Acabamento
- Fraises de finition

S904	■	1.1	1.2	1.3	1.4	3.1	3.3	4.1	5.1	6.1	6.2	6.3			
	•	1.5	1.6	3.2	3.4	4.2	4.3	5.2	5.3	6.4	7.1	7.2	7.3	8.1	8.2	8.3
S944	■	1.1	1.2	1.3	1.4	1.5	3.1	3.2	3.3	3.4	4.1	5.1	6.1	6.2	6.3	
	•	1.6	4.2	4.3	5.2	5.3	6.4	7.1	7.2	7.3	8.1	8.2	8.3			

S904	HM		N	Z 4		λ30° γ12°	DIN 6535HA		h12		DORMER	
S944	HM		N	Z 4		λ30° γ12°	DIN 6535HB	TiAlN	h12		DORMER	S991 437



S904	S944
	
2.00 - 20.00	2.00 - 20.00

d_1 Ø mm	Ch ±0.03x45° mm	d_2 Øh$_6$ mm	l_2 mm	l_1 mm	z	S904	S944
2.00	0.08	3	6	38	4	S9042.0	S9442.0 [2]
2.50	0.08	3	9	38	4	S9042.5	S9442.5 [2]
3.00	0.08	3	12	38	4	S9043.0	S9443.0 [2]
4.00	0.08	4	14	50	4	S9044.0	S9444.0 [2]
5.00	0.13	5	16	50	4	S9045.0	S9445.0 [2]
6.00	0.13	6	19	57	4	S9046.0	S9446.0
7.00	0.13	8	19	63	4	S9047.0	S9447.0
8.00	0.13	8	19	63	4	S9048.0	S9448.0
9.00	0.13	10	21	72	4	S9049.0	S9449.0
10.00	0.20	10	22	72	4	S90410.0 [1]	S94410.0 [1]
12.00	0.20	12	25	73	4	S90412.0 [1]	S94412.0 [1]
14.00	0.20	14	30	83	4	S90414.0 [1]	S94414.0 [1]
16.00	0.20	16	32	92	4	S90416.0 [1]	S94416.0 [1]
18.00	0.20	18	32	92	4	S90418.0 [1]	S94418.0 [1]
20.00	0.30	20	38	104	4	S90420.0 [1]	S94420.0 [1]

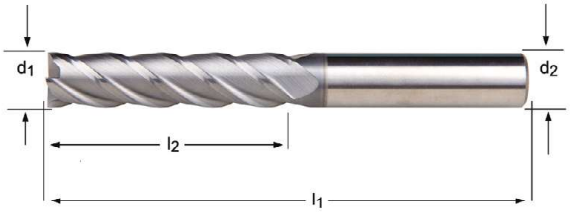
[1] Ch ±0.05x45° mm
[2] Cylindrical shank / Mango cilíndrico / Haste cilíndrica / queue cylindrique

S717
S217

- End Mill
- Fresas de acabado
- Fresa de Acabamento
- Fraises de finition

S717	■	1.1	1.2	1.3	1.4	1.5	2.1	2.2	3.1	3.2	3.3	3.4	4.2	5.2
	•	6.1	6.2	6.3	6.4	7.1	7.2	7.3	7.4					
S217	■	1.6	2.3	2.4	4.3	5.3								

S717	HM		N	Z 4		λ40° γ10°	DIN 6535HA	 AlCrN	h9		DORMER
S217	HM		N	Z 4		λ40° γ3°	DIN 6535HA	 AlTiN	h9		DORMER




S717
3.00 - 20.00


S217
3.00 - 20.00

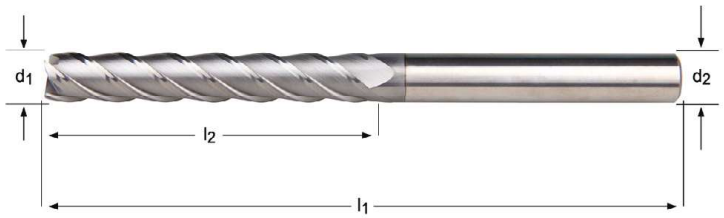
d_1 Ø mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	S717	S217
3.00	3	19	60	4	S7173.0	S2173.0XD3
3.00	6	19	75	4		S2173.0XD6
4.00	4	19	60	4	S7174.0	S2174.0XD4
4.00	6	19	75	4		S2174.0XD6
5.00	5	19	60	4	S7175.0	S2175.0
6.00	6	31	75	4	S7176.0	S2176.0
8.00	8	31	75	4	S7178.0	S2178.0
10.00	10	31	75	4	S71710.0	S21710.0
12.00	12	50	100	4	S71712.0	S21712.0
14.00	14	57	125	4	S71714.0	S21714.0
16.00	16	57	125	4	S71716.0	S21716.0
18.00	18	57	125	4	S71718.0	S21718.0
20.00	20	57	125	4	S71720.0	S21720.0

S718
S218

- End Mill
- Fresas de acabado
- Fresa de Acabamento
- Fraises de finition

S718	■	1.1	1.2	1.3	1.4	1.5	2.1	2.2	3.1	3.2	3.3	3.4	4.2	5.2
	•	6.1	6.2	6.3	6.4	7.1	7.2	7.3	7.4					
S218	■	1.6	2.3	2.4	4.3	5.3								

S718	HM		N	Z 4		λ40° γ10°	DIN 6535HA	AlCrN	h9		DORMER
S218	HM		N	Z 4		λ40° γ3°	DIN 6535HA	AlTiN	h9		DORMER



S718	S218
	
3.00 - 20.00	3.00 - 20.00

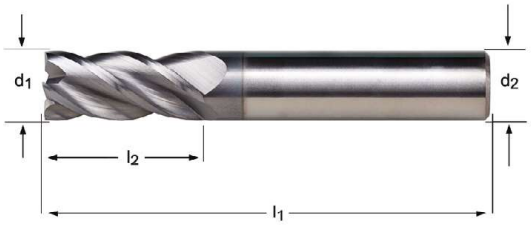
d_1 Ø mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	S718	S218
3.00	3	25	100	4	S7183.0	S2183.0
4.00	4	31	100	4	S7184.0	S2184.0
5.00	5	31	100	4	S7185.0	S2185.0
6.00	6	38	100	4	S7186.0	S2186.0
8.00	8	41	100	4	S7188.0	S2188.0
10.00	10	57	125	4	S71810.0	S21810.0
12.00	12	75	150	4	S71812.0	S21812.0
14.00	14	75	150	4	S71814.0	S21814.0
16.00	16	75	150	4	S71816.0	S21816.0
18.00	18	75	150	4	S71818.0	S21818.0
20.00	20	75	150	4	S71820.0	S21820.0

S761
S260

- End Mill
- Fresas de acabado
- Fresa de Acabamento
- Fraises de finition

S761	▪	1.1	1.2	1.3	1.4	1.5	2.1	2.2	3.1	3.2	3.3	3.4	4.2	5.2
S260	▪	1.6	1.7	2.3	2.4	4.3	5.3							

S761	HM		N	Z 4 ≠		λ40° γ10°	DIN 6535HA	AlCrN	h9		DORMER
S260	HM		N	Z 4 ≠		λ40° γ4°	DIN 6535HA	AlCrN	h9		DORMER



S761	S260
	
3.00 - 20.00	3.00 - 20.00

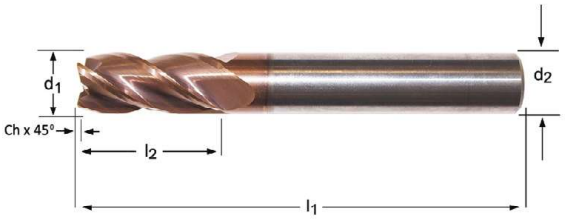
d_1 Ø mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	S761	S260
3.00	6	9	57	4	S7613.0	S2603.0
4.00	6	12	57	4	S7614.0	S2604.0
5.00	6	13	57	4	S7615.0	S2605.0
6.00	6	13	57	4	S7616.0	S2606.0
8.00	8	20	64	4	S7618.0	S2608.0
10.00	10	22	72	4	S76110.0	S26010.0
12.00	12	26	83	4	S76112.0	S26012.0
14.00	14	32	83	4	S76114.0	S26014.0
16.00	16	32	92	4	S76116.0	S26016.0
18.00	18	38	92	4		S26018.0
20.00	20	38	104	4	S76120.0	S26020.0

S766

- End Mill
- Fresas de acabado
- Fresa de Acabamento
- Fraises de finition

S766 ▪ 1.1 1.2 1.3 1.4 1.5 2.1 2.2 3.1 3.2 3.3 3.4 4.2 5.2

S766 HM | N | Z 4 | λ≠ γ10° | DIN 6535HA | TiSiN | h9 | DORMER



S766

4.00 - 20.00

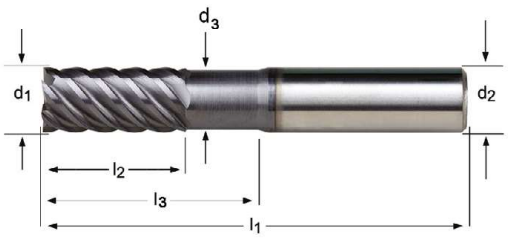
d_1 Ø mm	Ch ±0.02x45° mm	d_2 Øh$_6$ mm	l_2 mm	l_1 mm	z	S766
4.00	0.10	6	11	57	4	S7664.0
5.00	0.10	6	13	57	4	S7665.0
6.00	0.10	6	13	57	4	S7666.0
8.00	0.20	8	20	64	4	S7668.0
10.00	0.20	10	22	72	4	S76610.0
12.00	0.20	12	26	83	4	S76612.0
14.00	0.30	14	26	83	4	S76614.0
16.00	0.30	16	32	92	4	S76616.0
20.00	0.40	20	38	104	4	S76620.0

S225
S525

- Finishing End Mill
- Fresas de acabado
- Fresa de Acabamento
- Fraises de finition

S225	▪	1.6	2.3	2.4	4.3	5.3						
S525	▪	1.7	1.8									

S225	HM		N	Z 6-8		λ50° γ3°	DIN 6535HA	 AlTiN	h9		DORMER
S525	HM		N	Z 6-8		λ50° γ-26°	DIN 6535HA	 TiSiN	h9		DORMER



d_1 Ø mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	S225	S525
3.00	6	8	50	6	20.0	2.8	S2253.0	S5253.0
4.00	6	11	50	6	20.0	3.7	S2254.0	S5254.0
6.00	6	15	50	6	20.0	5.5	S2256.0	S5256.0
8.00	8	20	64	6	30.0	7.4	S2258.0	S5258.0
10.00	10	22	70	6	32.0	9.2	S22510.0	S52510.0
12.00	12	25	75	6	37.0	11.0	S22512.0	S52512.0
14.00	14	30	90	6	44.0	13.0	S22514.0	S52514.0
16.00	16	30	90	8	46.0	15.0	S22516.0	S52516.0
18.00	18	35	100	8	53.0	17.0	S22518.0	S52518.0
20.00	20	38	100	8	58.0	19.0	S22520.0	S52520.0

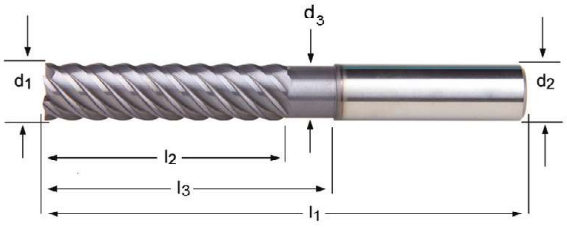
DORMER

S226
S526

- Finishing End Mill
- Fresas de acabado
- Fresa de Acabamento
- Fraises de finition

S226	▪	1.6	2.3	2.4	4.3	5.3						
S526	▪	1.7	1.8									

S226	HM		N	Z 6-8		λ 50° γ 3°	DIN 6535HA 	 AlTiN	h9		DORMER
S526	HM		N	Z 6-8		λ 50° γ -26°	DIN 6535HA 	 TiSiN	h9		DORMER



S226	S526
	
3.00 - 20.00	3.00 - 20.00

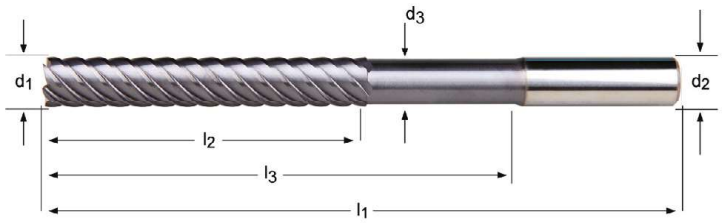
d_1 Ø mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	S226	S526
3.00	6	19	75	6	30.0	2.8	S2263.0	S5263.0
4.00	6	19	75	6	32.0	3.7	S2264.0	S5264.0
6.00	6	31	75	6	40.0	5.5	S2266.0	S5266.0
8.00	8	31	75	6	40.0	7.4	S2268.0	S5268.0
10.00	10	45	100	6	60.0	9.2	S22610.0	S52610.0
12.00	12	50	100	6	60.0	11.0	S22612.0	S52612.0
14.00	14	57	125	6	85.0	13.0	S22614.0	S52614.0
16.00	16	57	125	8	85.0	15.0	S22616.0	S52616.0
18.00	18	57	125	8	85.0	17.0	S22618.0	S52618.0
20.00	20	57	125	8	85.0	19.0	S22620.0	S52620.0

S227
S527

- Finishing End Mill
- Fresas de acabado
- Fresa de Acabamento
- Fraises de finition

S227	▪	1.6	2.3	2.4	4.3	5.3						
S527	▪	1.7	1.8									

S227	HM		N	Z 6-8		λ50° γ3°	DIN 6535HA	AlTiN	h9		DORMER
S527	HM		N	Z 6-8		λ50° γ-26°	DIN 6535HA	TiSiN	h9		DORMER



S227	S527
	
6.00 - 20.00	3.00 - 20.00

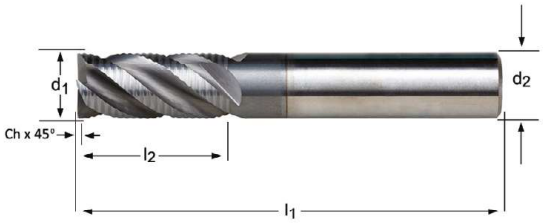
d_1 Ø mm	d_2 Øh$_6$ mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	S227	S527
3.00	6	25	100	6	60.0	2.8		S5273.0
4.00	6	31	100	6	60.0	3.7		S5274.0
6.00	6	38	100	6	60.0	5.5	S2276.0	S5276.0
8.00	8	41	100	6	60.0	7.4	S2278.0	S5278.0
10.00	10	57	125	6	85.0	9.2	S22710.0	S52710.0
12.00	12	75	150	6	110.0	11.0	S22712.0	S52712.0
14.00	14	75	150	6	110.0	13.0	S22714.0	
16.00	16	75	150	8	110.0	15.0	S22716.0	S52716.0
18.00	18	75	150	8	110.0	17.0	S22718.0	
20.00	20	75	150	8	110.0	19.0	S22720.0	S52720.0

DORMER

S765

- Roughing End Mill
- Fresas desbaste
- Fresa de Desbaste
- Fraises d'ébauche

S765 ▪ 1.1 1.2 1.3 1.4 1.5 2.1 2.2 3.1 3.2 3.3 3.4 4.2 5.2

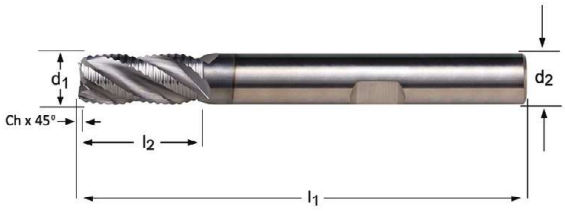


d_1 Ø mm	Ch ±0.02x45° mm	d_2 Øh$_6$ mm	l_2 mm	l_1 mm	z	S765
6.00	0.10	6	16	50	4	S7656.0
8.00	0.20	8	20	64	4	S7658.0
10.00	0.20	10	22	70	4	S76510.0
12.00	0.20	12	26	75	4	S76512.0
14.00	0.30	14	32	90	4	S76514.0
16.00	0.30	16	32	90	4	S76516.0
18.00	0.30	18	38	100	4	S76518.0
20.00	0.40	20	38	100	4	S76520.0

S264

- Roughing End Mill
- Fresas desbaste
- Fresa de Desbaste
- Fraises d'ébauche

S264 ▪ 1.6 1.7 2.3 2.4 4.3 5.3



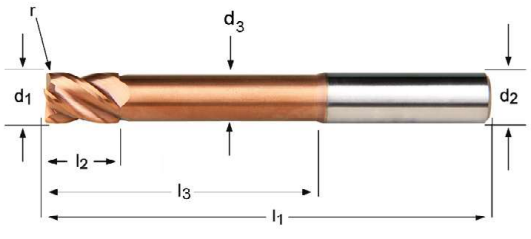
d_1 Ø mm	Ch ±0.02x45° mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	S264
6.00	0.10	6	13	57	4	S2646.0
8.00	0.20	8	20	64	4	S2648.0
10.00	0.20	10	22	72	4	S26410.0
12.00	0.20	12	26	83	4	S26412.0
14.00	0.30	14	26	83	4	S26414.0
16.00	0.30	16	32	92	4	S26416.0
18.00	0.30	18	32	92	4	S26418.0
20.00	0.40	20	38	104	4	S26420.0

DORMER

S524

- Corner Radius End Mill
- Fresas con radios en el extremo
- Fresa de Acabamento c/ Raio
- Fraises à matrice torique

S524 ▪ **1.7** **1.8**

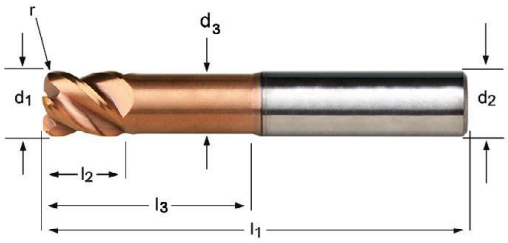


d_1 Ø mm	r ±0.01 mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	S524
3.00	0.30	6	5	75	4	30.0	2.8	S5243.0XR0.3
4.00	0.30	6	8	75	4	32.0	3.7	S5244.0XR0.3
4.00	0.50	6	8	75	4	32.0	3.7	S5244.0XR0.5
5.00	0.30	6	9	75	4	32.0	4.6	S5245.0XR0.3
5.00	0.50	6	9	75	4	32.0	4.6	S5245.0XR0.5
6.00	0.30	6	10	75	4	40.0	5.5	S5246.0XR0.3
6.00	0.50	6	10	75	4	40.0	5.5	S5246.0XR0.5
6.00	1.00	6	10	75	4	40.0	5.5	S5246.0XR1.0
8.00	0.30	8	12	75	4	40.0	7.4	S5248.0XR0.3
8.00	0.50	8	12	75	4	40.0	7.4	S5248.0XR0.5
8.00	1.00	8	12	75	4	40.0	7.4	S5248.0XR1.0
10.00	0.50	10	14	75	4	40.0	9.2	S52410.0XR0.5
10.00	1.00	10	14	75	4	40.0	9.2	S52410.0XR1.0
10.00	2.00	10	14	75	4	40.0	9.2	S52410.0XR2.0
12.00	0.50	12	16	100	4	60.0	11.0	S52412.0XR0.5
12.00	1.00	12	16	100	4	60.0	11.0	S52412.0XR1.0
12.00	2.00	12	16	100	4	60.0	11.0	S52412.0XR2.0
16.00	0.50	16	22	125	4	85.0	15.0	S52416.0XR0.5
16.00	1.00	16	22	125	4	85.0	15.0	S52416.0XR1.0
16.00	2.00	16	22	125	4	85.0	15.0	S52416.0XR2.0
16.00	3.00	16	22	125	4	85.0	15.0	S52416.0XR3.0

S521

- Corner Radius End Mill
- Fresas con radios en el extremo
- Fresa de Acabamento c/ Raio
- Fraises à matrice torique

S521 ▪ **1.7** **1.8**

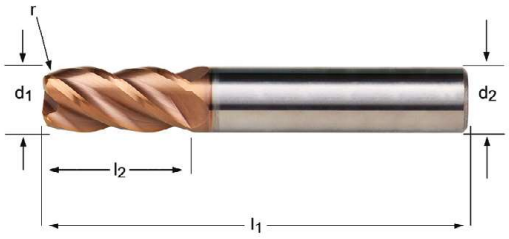


d_1 Ø mm	r ±0.01 mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	S521
3.00	0.30	6	4	60	4	14.0	2.8	S5213.0XR0.3
4.00	0.30	6	5	60	4	16.0	3.7	S5214.0XR0.3
4.00	0.50	6	5	60	4	16.0	3.7	S5214.0XR0.5
5.00	0.30	6	6	60	4	18.0	4.6	S5215.0XR0.3
5.00	0.50	6	6	60	4	18.0	4.6	S5215.0XR0.5
6.00	0.50	6	7	60	4	20.0	5.5	S5216.0XR0.5
6.00	1.00	6	7	60	4	20.0	5.5	S5216.0XR1.0
8.00	0.50	8	9	64	4	26.0	7.4	S5218.0XR0.5
8.00	1.00	8	9	64	4	26.0	7.4	S5218.0XR1.0
10.00	1.00	10	11	70	4	31.0	9.2	S52110.0XR1.0
10.00	2.00	10	11	70	4	31.0	9.2	S52110.0XR2.0
12.00	1.00	12	13	75	4	37.0	11.0	S52112.0XR1.0
12.00	2.00	12	13	75	4	37.0	11.0	S52112.0XR2.0
16.00	1.00	16	17	90	4	43.0	15.0	S52116.0XR1.0
16.00	2.00	16	17	90	4	43.0	15.0	S52116.0XR2.0
16.00	3.00	16	17	90	4	43.0	15.0	S52116.0XR3.0

S523

- Corner Radius End Mill
- Fresas con radios en el extremo
- Fresa de Acabamento c/ Raio
- Fraises à matrice torique

S523 ▪ **1.7** **1.8**



d_1 Ø mm	r ±0.01 mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	S523
1.50	0.20	6	4.5	50	4	S5231.5XR0.2
2.00	0.20	6	6.5	50	4	S5232.0XR0.2
3.00	0.20	3	9	50	4	S5233.0XR0.2XD3
3.00	0.30	3	9	50	4	S5233.0XR0.3XD3
3.00	0.20	6	9	50	4	S5233.0XR0.2XD6
3.00	0.30	6	9	50	4	S5233.0XR0.3XD6
3.00	0.50	6	9	50	4	S5233.0XR0.5XD6
4.00	0.30	4	12	50	4	S5234.0XR0.3XD4
4.00	0.50	4	12	50	4	S5234.0XR0.5XD4
4.00	0.30	6	12	50	4	S5234.0XR0.3XD6
4.00	0.50	6	12	50	4	S5234.0XR0.5XD6
5.00	0.30	5	15	50	4	S5235.0XR0.3XD5
5.00	0.50	5	15	50	4	S5235.0XR0.5XD5
5.00	0.30	6	15	50	4	S5235.0XR0.3XD6
5.00	0.50	6	15	50	4	S5235.0XR0.5XD6
6.00	0.30	6	16	50	4	S5236.0XR0.3
6.00	0.50	6	16	50	4	S5236.0XR0.5
6.00	1.00	6	16	50	4	S5236.0XR1.0
8.00	0.30	8	20	64	4	S5238.0XR0.3
8.00	0.50	8	20	64	4	S5238.0XR0.5
8.00	1.00	8	20	64	4	S5238.0XR1.0
8.00	2.00	8	20	64	4	S5238.0XR2.0
10.00	0.50	10	22	70	4	S52310.0XR0.5
10.00	1.00	10	22	70	4	S52310.0XR1.0
10.00	1.50	10	22	70	4	S52310.0XR1.5
10.00	2.00	10	22	70	4	S52310.0XR2.0
12.00	0.50	12	25	75	4	S52312.0XR0.5
12.00	1.00	12	25	75	4	S52312.0XR1.0
12.00	2.00	12	25	75	4	S52312.0XR2.0
12.00	3.00	12	25	75	4	S52312.0XR3.0
16.00	0.50	16	32	90	4	S52316.0XR0.5
16.00	1.00	16	32	90	4	S52316.0XR1.0
16.00	2.00	16	32	90	4	S52316.0XR2.0
16.00	3.00	16	32	90	4	S52316.0XR3.0

S763

- Corner Radius End Mill
- Fresas con radios en el extremo
- Fresa de Acabamento c/ Raio
- Fraises à matrice torique

S763 ▪ 1.1 1.2 1.3 1.4 1.5 2.1 2.2 3.1 3.2 3.3 3.4 4.2 5.2

S763 HM N Z 4 ≠ λ40° γ10° DIN 6535HA AlCrN h9 DORMER

S763

3.00 - 20.00

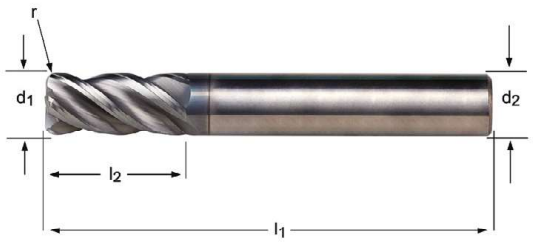
d_1 Ø mm	r ±0.01 mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	S763
3.00	0.30	3	9	40	4	S7633.0XR0.3
4.00	0.30	4	12	50	4	S7634.0XR0.3
4.00	0.50	4	12	50	4	S7634.0XR0.5
5.00	0.30	5	15	50	4	S7635.0XR0.3
5.00	0.50	5	15	50	4	S7635.0XR0.5
6.00	0.50	6	16	50	4	S7636.0XR0.5
6.00	1.00	6	16	50	4	S7636.0XR1.0
8.00	0.50	8	20	64	4	S7638.0XR0.5
8.00	1.00	8	20	64	4	S7638.0XR1.0
10.00	0.50	10	22	70	4	S76310.0XR0.5
10.00	1.00	10	22	70	4	S76310.0XR1.0
10.00	2.00	10	22	70	4	S76310.0XR2.0
12.00	1.00	12	25	75	4	S76312.0XR1.0
12.00	2.00	12	25	75	4	S76312.0XR2.0
12.00	3.00	12	25	75	4	S76312.0XR3.0
14.00	1.50	14	32	90	4	S76314.0XR1.5
16.00	1.00	16	32	90	4	S76316.0XR1.0
16.00	2.00	16	32	90	4	S76316.0XR2.0
16.00	3.00	16	32	90	4	S76316.0XR3.0
18.00	2.00	18	38	100	4	S76318.0XR2.0
20.00	3.00	20	38	100	4	S76320.0XR3.0

DORMER

S262

- Corner Radius End Mill
- Fresas con radios en el extremo
- Fresa de Acabamento c/ Raio
- Fraises à matrice torique

S262 ▪ 1.6 1.7 2.3 2.4 4.3 5.3



3.00 - 20.00

d_1 Ø mm	r ±0.01 mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	S262
3.00	0.30	6	9	50	4	S2623.0XR0.3
3.00	0.50	6	9	50	4	S2623.0XR0.5
4.00	0.30	6	12	57	4	S2624.0XR0.3
4.00	0.50	6	12	57	4	S2624.0XR0.5
4.00	1.00	6	12	57	4	S2624.0XR1.0
5.00	0.30	6	15	57	4	S2625.0XR0.3
5.00	0.50	6	15	57	4	S2625.0XR0.5
6.00	0.30	6	16	57	4	S2626.0XR0.3
6.00	0.50	6	16	57	4	S2626.0XR0.5
6.00	1.00	6	16	57	4	S2626.0XR1.0
8.00	0.30	8	20	64	4	S2628.0XR0.3
8.00	0.50	8	20	64	4	S2628.0XR0.5
8.00	1.00	8	20	64	4	S2628.0XR1.0
8.00	1.50	8	20	64	4	S2628.0XR1.5
8.00	2.00	8	20	64	4	S2628.0XR2.0
10.00	0.30	10	22	72	4	S26210.0XR0.3
10.00	0.50	10	22	72	4	S26210.0XR0.5
10.00	1.00	10	22	72	4	S26210.0XR1.0
10.00	1.50	10	22	72	4	S26210.0XR1.5
10.00	2.00	10	22	72	4	S26210.0XR2.0
12.00	0.30	12	26	83	4	S26212.0XR0.3
12.00	0.50	12	26	83	4	S26212.0XR0.5
12.00	1.00	12	26	83	4	S26212.0XR1.0
12.00	2.00	12	26	83	4	S26212.0XR2.0
12.00	2.50	12	26	83	4	S26212.0XR2.5
12.00	3.00	12	26	83	4	S26212.0XR3.0
14.00	0.30	14	32	83	4	S26214.0XR0.3
14.00	0.50	14	32	83	4	S26214.0XR0.5
14.00	1.00	14	32	83	4	S26214.0XR1.0
14.00	2.00	14	32	83	4	S26214.0XR2.0
14.00	3.00	14	32	83	4	S26214.0XR3.0
16.00	0.30	16	32	92	4	S26216.0XR0.3
16.00	0.50	16	32	92	4	S26216.0XR0.5
16.00	1.00	16	32	92	4	S26216.0XR1.0
16.00	2.00	16	32	92	4	S26216.0XR2.0
16.00	2.50	16	32	92	4	S26216.0XR2.5
16.00	3.00	16	32	92	4	S26216.0XR3.0
16.00	4.00	16	32	92	4	S26216.0XR4.0
18.00	0.30	18	38	92	4	S26218.0XR0.3
18.00	0.50	18	38	92	4	S26218.0XR0.5

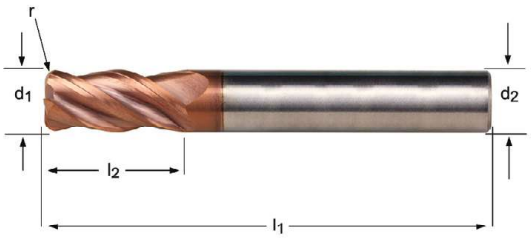
d_1 Ø mm	r ±0.01 mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	S262
18.00	1.00	18	38	92	4	S26218.0XR1.0
18.00	2.00	18	38	92	4	S26218.0XR2.0
18.00	3.00	18	38	92	4	S26218.0XR3.0
20.00	0.30	20	38	104	4	S26220.0XR0.3
20.00	0.50	20	38	104	4	S26220.0XR0.5
20.00	1.00	20	38	104	4	S26220.0XR1.0
20.00	2.00	20	38	104	4	S26220.0XR2.0
20.00	2.50	20	38	104	4	S26220.0XR2.5
20.00	3.00	20	38	104	4	S26220.0XR3.0
20.00	4.00	20	38	104	4	S26220.0XR4.0

S767

- Corner Radius End Mill
- Fresas con radios en el extremo
- Fresa de Acabamento c/ Raio
- Fraises à matrice torique

S767 ▪ 1.1 1.2 1.3 1.4 1.5 2.1 2.2 3.1 3.2 3.3 3.4 4.2 5.2

S767 HM | N | Z 4 | λ≠ γ10° | DIN 6535HA | TiSiN | h9 | DORMER



S767

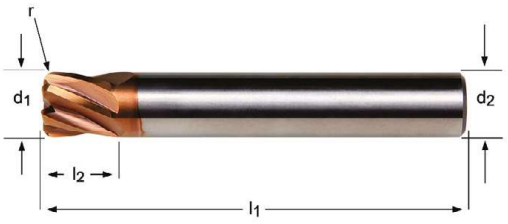
4.00 - 20.00

d_1 Ø mm	r ±0.01 mm	d_2 Øh$_6$ mm	l_2 mm	l_1 mm	z	S767
4.00	0.30	6	11	57	4	S7674.0XR0.3
4.00	0.50	6	11	57	4	S7674.0XR0.5
5.00	0.30	6	13	57	4	S7675.0XR0.3
5.00	0.50	6	13	57	4	S7675.0XR0.5
6.00	0.30	6	13	57	4	S7676.0XR0.3
6.00	0.50	6	13	57	4	S7676.0XR0.5
6.00	1.00	6	13	57	4	S7676.0XR1.0
8.00	0.30	8	20	64	4	S7678.0XR0.3
8.00	0.50	8	20	64	4	S7678.0XR0.5
8.00	1.00	8	20	64	4	S7678.0XR1.0
10.00	0.30	10	22	72	4	S76710.0XR0.3
10.00	0.50	10	22	72	4	S76710.0XR0.5
10.00	1.00	10	22	72	4	S76710.0XR1.0
12.00	0.30	12	26	83	4	S76712.0XR0.3
12.00	0.50	12	26	83	4	S76712.0XR0.5
12.00	1.00	12	26	83	4	S76712.0XR1.0
12.00	2.00	12	26	83	4	S76712.0XR2.0
16.00	0.30	16	32	92	4	S76716.0XR0.3
16.00	0.50	16	32	92	4	S76716.0XR0.5
16.00	1.00	16	32	92	4	S76716.0XR1.0
16.00	2.00	16	32	92	4	S76716.0XR2.0
20.00	0.30	20	38	104	4	S76720.0XR0.3
20.00	0.50	20	38	104	4	S76720.0XR0.5
20.00	1.00	20	38	104	4	S76720.0XR1.0
20.00	2.00	20	38	104	4	S76720.0XR2.0

S536

- High Feed End Mill
- Fresas de acabado de gran avance
- Fresa de Acabamento de alto avanço
- Fraises grandes avance de Finition

S536 ▪ **1.7** **1.8**



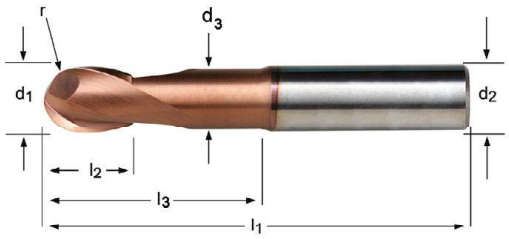
d_1 Ø mm	r ±0.01 mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	S536
6.00	1.00	6	6	60	4	S5366.0XR1.0
8.00	2.00	8	8	64	6	S5368.0XR2.0
10.00	2.00	10	10	75	6	S53610.0XR2.0
12.00	2.00	12	12	75	6	S53612.0XR2.0

DORMER

S229

- Ball-Nosed End Mill
- Fresas con punta esferica
- Fresa Topo Esférico
- Fraises de finition bout hémisphérique

S229 ▪ 1.6 2.3 2.4 4.3 5.3

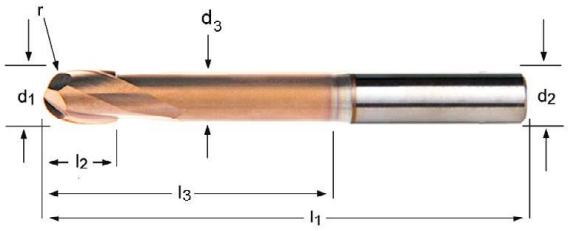


d_1 Ø mm	r +0/-0.02 mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	S229
1.50	0.75	4	3	50	2	6.0	1.4	S2291.5XD4
2.00	1.00	3	4	50	2	8.0	1.9	S2292.0XD3
2.00	1.00	4	4	50	2	8.0	1.9	S2292.0XD4
3.00	1.50	3	5	50	2	14.0	2.8	S2293.0XD3
3.00	1.50	6	5	50	2	14.0	2.8	S2293.0XD6
4.00	2.00	4	8	50	2	20.0	3.7	S2294.0XD4
4.00	2.00	6	8	50	2	20.0	3.7	S2294.0XD6
5.00	2.50	5	9	50	2	20.0	4.6	S2295.0XD5
5.00	2.50	6	9	50	2	20.0	4.6	S2295.0XD6
6.00	3.00	6	10	50	2	20.0	5.5	S2296.0
8.00	4.00	8	12	64	2	30.0	7.4	S2298.0
10.00	5.00	10	14	70	2	32.0	9.2	S22910.0
12.00	6.00	12	16	75	2	38.0	11.0	S22912.0
14.00	7.00	14	32	90	2	44.0	13.0	S22914.0
16.00	8.00	16	32	90	2	46.0	15.0	S22916.0

S231

- Ball-Nosed End Mill
- Fresas con punta esferica
- Fresa Topo Esférico
- Fraises de finition bout hémisphérique

S231 ▪ 1.6 2.3 2.4 4.3 5.3



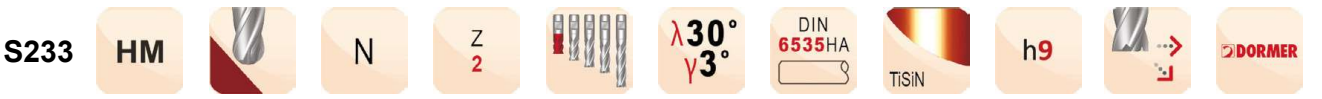
d_1 Ø mm	r +0/-0.02 mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	S231
1.50	0.75	4	3	75	2	10.0	1.4	S2311.5XD4
2.00	1.00	3	4	60	2	14.0	1.9	S2312.0XD3
2.00	1.00	4	4	75	2	14.0	1.9	S2312.0XD4
3.00	1.50	3	5	60	2	21.0	2.8	S2313.0XD3
3.00	1.50	6	5	75	2	21.0	2.8	S2313.0XD6
4.00	2.00	4	8	60	2	28.0	3.7	S2314.0XD4
4.00	2.00	6	8	75	2	28.0	3.7	S2314.0XD6
5.00	2.50	5	9	60	2	32.0	4.6	S2315.0
6.00	3.00	6	10	75	2	40.0	5.5	S2316.0
8.00	4.00	8	10	75	2	40.0	7.4	S2318.0
10.00	5.00	10	12	75	2	40.0	9.2	S23110.0
12.00	6.00	12	16	100	2	60.0	11.0	S23112.0
16.00	8.00	16	32	125	2	80.0	15.0	S23116.0

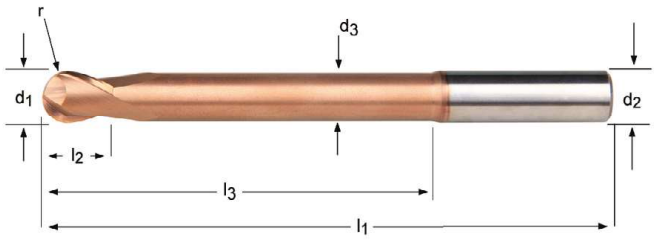
DORMER

S233

- Ball-Nosed End Mill
- Fresas con punta esferica
- Fresa Topo Esférico
- Fraises de finition bout hémisphérique

S233 ▪ 1.6 2.3 2.4 4.3 5.3



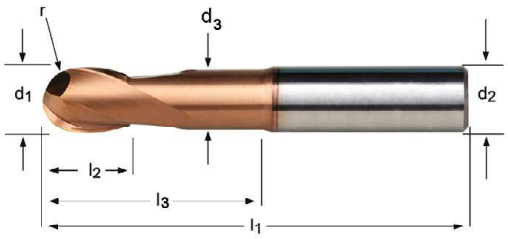


d_1 Ø mm	r +0/-0.02 mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	S233
2.00	1.00	3	4	100	2	20.0	1.9	S2332.0XD3
2.00	1.00	4	4	100	2	20.0	1.9	S2332.0XD4
3.00	1.50	3	5	100	2	30.0	2.8	S2333.0XD3
3.00	1.50	6	5	100	2	30.0	2.8	S2333.0XD6
4.00	2.00	4	8	100	2	40.0	3.7	S2334.0XD4
4.00	2.00	6	8	100	2	40.0	3.7	S2334.0XD6
5.00	2.50	5	9	100	2	50.0	4.6	S2335.0
6.00	3.00	6	10	100	2	60.0	5.5	S2336.0
8.00	4.00	8	12	100	2	60.0	7.4	S2338.0
10.00	5.00	10	14	125	2	85.0	9.2	S23310.0
12.00	6.00	12	16	125	2	85.0	11.0	S23312.0
14.00	7.00	14	32	150	2	110.0	13.0	S23314.0
16.00	8.00	16	32	150	2	110.0	15.0	S23316.0

S529

- Ball-Nosed End Mill
- Fresas con punta esferica
- Fresa Topo Esférico
- Fraises de finition bout hémisphérique

S529 ▪ **1.7** **1.8**

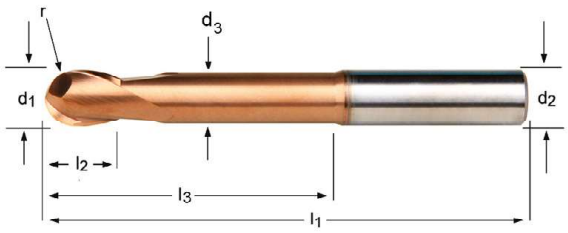


d_1 Ø mm	r +0/-0.02 mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	S529
1.50	0.75	6	3	50	2	6.0	1.4	S5291.5
2.00	1.00	4	4	50	2	8.0	1.9	S5292.0XD4
2.00	1.00	6	4	50	2	8.0	1.9	S5292.0XD6
3.00	1.50	3	5	50	2	14.0	2.8	S5293.0XD3
3.00	1.50	6	5	50	2	14.0	2.8	S5293.0XD6
4.00	2.00	4	8	50	2	20.0	3.7	S5294.0XD4
4.00	2.00	6	8	50	2	20.0	3.7	S5294.0XD6
5.00	2.50	5	9	50	2	20.0	4.6	S5295.0XD5
5.00	2.50	6	9	50	2	20.0	4.6	S5295.0XD6
6.00	3.00	6	10	50	2	20.0	5.5	S5296.0
8.00	4.00	8	12	64	2	30.0	7.4	S5298.0
10.00	5.00	10	14	70	2	32.0	9.2	S52910.0
12.00	6.00	12	16	75	2	38.0	11.0	S52912.0
16.00	8.00	16	32	90	2	46.0	15.0	S52916.0

S531

- Ball-Nosed End Mill
- Fresas con punta esferica
- Fresa Topo Esférico
- Fraises de finition bout hémisphérique

S531 ▪ **1.7** **1.8**

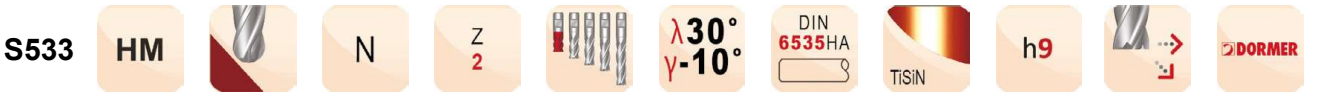


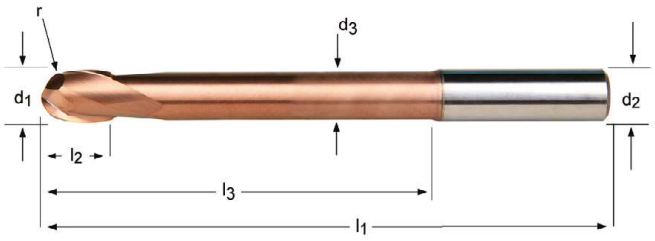
d_1 Ø mm	r +0/-0.02 mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	S531
1.50	0.75	6	3	75	2	10.0	1.4	S5311.5
2.00	1.00	4	4	75	2	14.0	1.9	S5312.0XD4
2.00	1.00	6	4	75	2	14.0	1.9	S5312.0XD6
3.00	1.50	3	5	60	2	21.0	2.8	S5313.0XD3
3.00	1.50	6	5	75	2	21.0	2.8	S5313.0XD6
4.00	2.00	4	8	60	2	28.0	3.7	S5314.0XD4
4.00	2.00	6	8	75	2	28.0	3.7	S5314.0XD6
5.00	2.50	5	9	60	2	32.0	4.6	S5315.0XD5
5.00	2.50	6	9	75	2	32.0	4.6	S5315.0XD6
6.00	3.00	6	10	75	2	40.0	5.5	S5316.0
8.00	4.00	8	12	75	2	40.0	7.4	S5318.0
10.00	5.00	10	14	75	2	40.0	9.2	S53110.0
12.00	6.00	12	16	100	2	60.0	11.0	S53112.0
16.00	8.00	16	32	125	2	80.0	15.0	S53116.0

S533

- Ball-Nosed End Mill
- Fresas con punta esferica
- Fresa Topo Esférico
- Fraises de finition bout hémisphérique

S533 ▪ **1.7** **1.8**





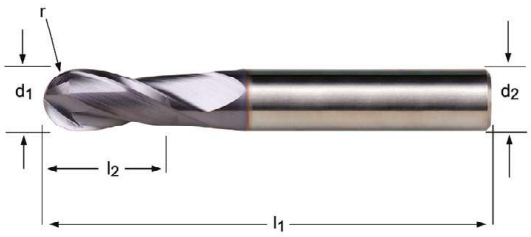
d_1 Ø mm	r +0/-0.02 mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	S533
2.00	1.00	4	4	100	2	20.0	1.9	S5332.0XD4
2.00	1.00	6	4	100	2	20.0	1.9	S5332.0XD6
3.00	1.50	4	5	100	2	30.0	2.8	S5333.0XD4
3.00	1.50	6	5	100	2	30.0	2.8	S5333.0XD6
4.00	2.00	4	8	100	2	40.0	3.7	S5334.0XD4
4.00	2.00	6	8	100	2	40.0	3.7	S5334.0XD6
5.00	2.50	5	9	100	2	50.0	4.6	S5335.0XD5
5.00	2.50	6	9	100	2	50.0	4.6	S5335.0XD6
6.00	3.00	6	10	100	2	60.0	5.5	S5336.0
8.00	4.00	8	12	100	2	60.0	7.4	S5338.0
10.00	5.00	10	14	125	2	85.0	9.2	S53310.0
12.00	6.00	12	16	125	2	85.0	11.0	S53312.0
14.00	7.00	14	32	150	2	110.0	13.0	S53314.0
16.00	8.00	16	32	150	2	110.0	15.0	S53316.0

S501

- Ball-Nosed End Mill
- Fresas con punta esferica
- Fresa Topo Esférico
- Fraises de finition bout hémisphérique

S501																					
	▪	1.1	1.2	1.3	1.4	1.5	1.6	2.1	2.2	2.3	3.1	3.2	3.3	3.4	4.1	4.2	4.3	5.1	5.2	5.3	6.1
		6.2	6.3	6.4	7.1	7.2	7.3	7.4	8.1	8.2	8.3	9.1									
	•	1.7																			

S501	HM		N	Z 2		λ 30° γ 10°	DIN 6535HA	X-CEED	h9		DORMER



S501

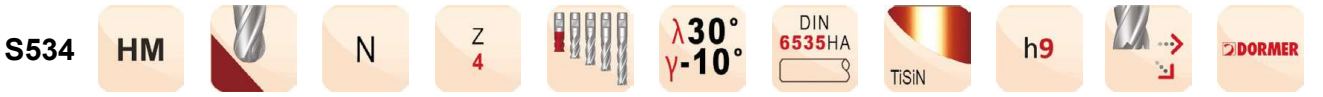
1.00 - 16.00

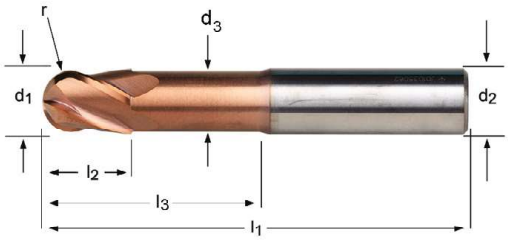
d_1 Ø mm	r ±0.01 mm	d_2 Øh$_6$ mm	l_2 mm	l_1 mm	z	S501
1.00	0.50	3	3	38	2	S5011.0
1.50	0.75	3	3	38	2	S5011.5
2.00	1.00	3	6	38	2	S5012.0
2.50	1.25	3	7	38	2	S5012.5
3.00	1.50	3	7	38	2	S5013.0
4.00	2.00	6	8	57	2	S5014.0
5.00	2.50	6	10	57	2	S5015.0
6.00	3.00	6	10	57	2	S5016.0
7.00	3.50	8	13	63	2	S5017.0
8.00	4.00	8	16	63	2	S5018.0
9.00	4.50	10	16	72	2	S5019.0
10.00	5.00	10	19	72	2	S50110.0
12.00	6.00	12	22	83	2	S50112.0
16.00	8.00	16	26	92	2	S50116.0

S534

- Ball-Nosed End Mill
- Fresas con punta esferica
- Fresa Topo Esférico
- Fraises de finition bout hémisphérique

S534 ▪ **1.7** **1.8**





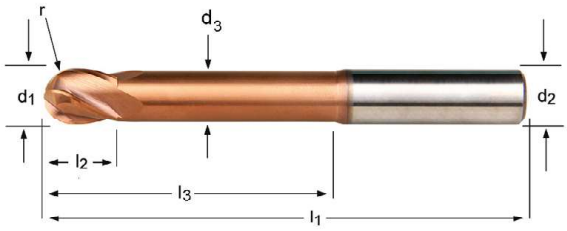
3.00 - 16.00

d_1 Ø mm	r +0/-0.02 mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	S534
3.00	1.50	6	5	50	4	14.0	2.8	S5343.0
4.00	2.00	6	8	50	4	20.0	3.7	S5344.0
5.00	2.50	6	9	50	4	20.0	4.6	S5345.0
6.00	3.00	6	10	50	4	20.0	5.5	S5346.0
8.00	4.00	8	12	64	4	30.0	7.4	S5348.0
10.00	5.00	10	14	70	4	32.0	9.2	S53410.0
12.00	6.00	12	16	75	4	38.0	11.0	S53412.0
14.00	7.00	14	32	90	4	44.0	13.0	S53414.0
16.00	8.00	16	32	90	4	46.0	15.0	S53416.0

S535

- Ball-Nosed End Mill
- Fresas con punta esferica
- Fresa Topo Esférico
- Fraises de finition bout hémisphérique

S535 ▪ **1.7** **1.8**



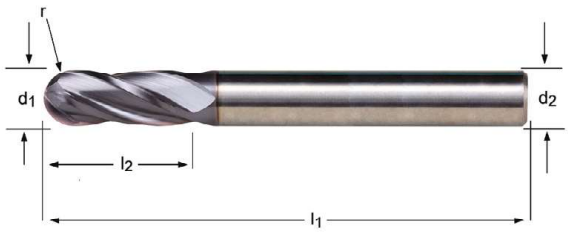
d_1 Ø mm	r +0/-0.02 mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	S535
3.00	1.50	6	5	75	4	21.0	2.8	S5353.0
4.00	2.00	6	8	75	4	28.0	3.7	S5354.0
5.00	2.50	6	9	75	4	32.0	4.6	S5355.0
6.00	3.00	6	10	75	4	40.0	5.5	S5356.0
8.00	4.00	8	12	75	4	40.0	7.4	S5358.0
10.00	5.00	10	14	75	4	40.0	9.2	S53510.0
12.00	6.00	12	16	100	4	60.0	11.0	S53512.0
14.00	7.00	14	32	125	4	80.0	13.0	S53514.0
16.00	8.00	16	32	125	4	80.0	15.0	S53516.0

S511

- Ball-Nosed End Mill
- Fresas con punta esferica
- Fresa Topo Esférico
- Fraises de finition bout hémisphérique

S511																				
	■	1.1	1.2	1.3	1.4	1.5	1.6	2.1	2.2	2.3	3.1	3.2	3.3	3.4	4.1	4.2	4.3	5.1	5.2	5.3	7.3
		7.4	8.2	8.3	9.1																
	•	1.7	6.1	6.2	6.3	6.4	7.1	7.2	8.1												

S511	HM		N	Z 4		λ 30° γ 10°	DIN 6535HA	X-CEED	h9		DORMER



S511

3.00 - 16.00

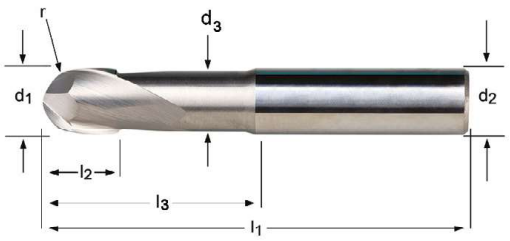
d_1 Ø mm	r ±0.01 mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	S511
3.00	1.50	6	8	80	4	S5113.0
4.00	2.00	6	11	80	4	S5114.0
5.00	2.50	6	13	80	4	S5115.0
6.00	3.00	6	13	80	4	S5116.0
7.00	3.50	8	16	100	4	S5117.0
8.00	4.00	8	19	100	4	S5118.0
9.00	4.50	10	19	100	4	S5119.0
10.00	5.00	10	22	100	4	S51110.0
12.00	6.00	12	26	100	4	S51112.0
16.00	8.00	16	32	100	4	S51116.0

DORMER

S629

- Ball-Nosed End Mill
- Fresas con punta esferica
- Fresa Topo Esférico
- Fraises de finition bout hémisphérique

S629 ▪ 6.1 6.2 6.3 6.4 7.1 7.2 7.3 7.4 8.1 8.2



d_1 Ø mm	r +0/-0.02 mm	d_2 Ø mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	S629
3.00	1.50	6	5	57	2	20.0	2.8	S6293.0
4.00	2.00	6	6	57	2	20.0	3.7	S6294.0
5.00	2.50	6	7	57	2	20.0	4.6	S6295.0
6.00	3.00	6	8	57	2	20.0	5.5	S6296.0
8.00	4.00	8	10	64	2	25.0	7.4	S6298.0
10.00	5.00	10	12	75	2	35.0	9.2	S62910.0
12.00	6.00	12	14	75	2	35.0	11.0	S62912.0
16.00	8.00	16	18	90	2	45.0	15.0	S62916.0
20.00	10.00	20	22	100	2	50.0	19.0	S62920.0

S739

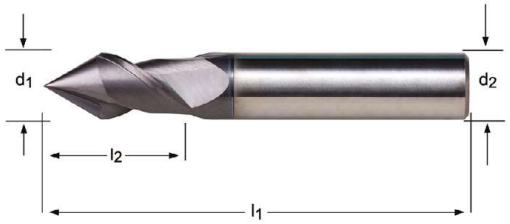
- Chamfering End Mill - 60°
- Fresas de achaflanar - 60º
- Fresa de Chanfrar - 60º
- Fraise à chanfreiner 60°

S740

- Chamfering End Mill - 90°
- Fresas de achaflanar - 90º
- Fresa de Chanfrar - 90°
- Fraise à chanfreiner 90°

S739; S740 ▪ 1.1 1.2 1.3 1.4 1.5 2.1 2.2 3.1 3.2 3.3 3.4 4.2 5.2 6.1 6.2 6.3 6.4 7.1 7.2 7.3 7.4

S739	HM		N	Z 2		λ40° γ10°	DIN 6535HA	 AlTiN	h9		DORMER
S740	HM		N	Z 2		λ40° γ10°	DIN 6535HA	 AlTiN	h9		DORMER



S739	S740
	
3.00 - 20.00	3.00 - 20.00

▷	d_1 Ø mm	d_2 Øh$_6$ mm	l_2 mm	l_1 mm	z	S739	S740
60°	3.00	3	9	40	2	S7393.0	
90°	3.00	3	9	40	2		S7403.0
60°	4.00	4	12	50	2	S7394.0	
90°	4.00	4	12	50	2		S7404.0
60°	5.00	5	15	50	2	S7395.0	
90°	5.00	5	15	50	2		S7405.0
60°	6.00	6	16	50	2	S7396.0	
90°	6.00	6	16	50	2		S7406.0
60°	8.00	8	20	64	2	S7398.0	
90°	8.00	8	20	64	2		S7408.0
60°	10.00	10	22	70	2	S73910.0	
90°	10.00	10	22	70	2		S74010.0
60°	12.00	12	25	75	2	S73912.0	
90°	12.00	12	25	75	2		S74012.0
60°	16.00	16	32	90	2	S73916.0	
90°	16.00	16	32	90	2		S74016.0
60°	20.00	20	38	100	2	S73920.0	
90°	20.00	20	38	100	2		S74020.0

S991

- Solid Carbide Cutter Set
- Juego de fresas de acabado
- Jogo de Fresa de Acabamento, metal duro
- Coffret de fraises de finition, carbure monobloc

A=Styles in Set, B=No. in Set, C=Diameters in Set
A=Tipos en el juego, B=No. en el Juego, C=Diámetros en el Juego
A=Tipos no Jogo, B=Quant. por Jogo., C=Diâmetros por Jogo
A=Types de coffrets, B=Nombre dans le coffret, C=Diamètres dans le coffret

S991

Set

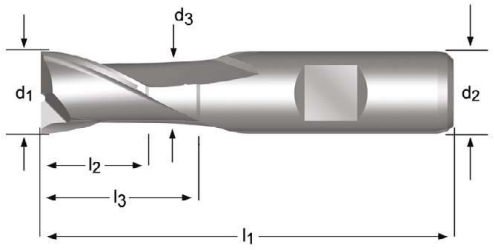
Nr.	A	B	C	S991
922	S922	6	Ø 3.00 mm, 4.00 mm, 5.00 mm, 6.00 mm, 8.00 mm, 10.00 mm	S991SET922
933	S933	6	Ø 3.00 mm, 4.00 mm, 5.00 mm, 6.00 mm, 8.00 mm, 10.00 mm	S991SET933
944	S944	6	Ø 3.00 mm, 4.00 mm, 5.00 mm, 6.00 mm, 8.00 mm, 10.00 mm	S991SET944

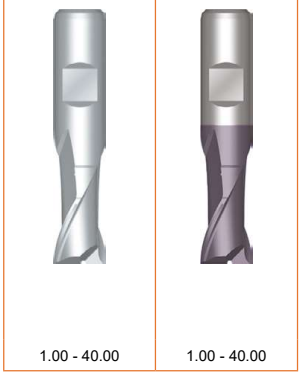
C110
C126

- Slot Drill
- Fresas de ranurar
- Fresa de Ranhurar
- Fraises à rainurer

C110	■	1.1	1.2	4.1	5.1	6.1	6.2	6.3							
	•	1.3	1.4	2.1	3.1	3.2	3.3	3.4	4.2	5.2	7.1	7.2	7.3	8.1	
C126	■	1.1	1.2	1.3	1.4	3.1	3.2	3.3	3.4	4.1	4.2	5.1	5.2	6.1	6.2	6.3
	•	1.5	1.6	2.1	2.3	4.3	5.3	6.4	7.1	7.2	7.3	7.4	8.1			

C110	HSS-E PM	P9	N	Z 2		λ30° γ12°	DIN 1835B		e8		DIN 327D
C126	HSS-E PM	P9	N	Z 2		λ30° γ12°	DIN 1835B	TiCN	e8		DIN 327D





d_1 Ø Inch	d_1 Ø mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C110	C126
	1.00	6	2.5	47	2	-	-	C1101.0	C1261.0
	1.50	6	3	47	2	-	-	C1101.5	C1261.5
1/16	1.59	6	3	47	2	-	-	C1101/16	
	1.80	6	4	48	2	-	-	C1101.8	
	2.00	6	4	48	2	-	-	C1102.0	C1262.0
3/32	2.38	6	5	49	2	-	-	C1103/32	
	2.50	6	5	49	2	-	-	C1102.5	C1262.5
	2.80	6	5	49	2	-	-	C1102.8	
	3.00	6	5	49	2	-	-	C1103.0	C1263.0
1/8	3.18	6	6	50	2	-	-	C1101/8	
	3.50	6	6	50	2	-	-	C1103.5	C1263.5
	3.80	6	7	51	2	-	-	C1103.8	
	4.00	6	7	51	2	-	-	C1104.0	C1264.0
	4.50	6	7	51	2	-	-	C1104.5	C1264.5
3/16	4.76	6	8	52	2	-	-	C1103/16	
	4.80	6	8	52	2	-	-	C1104.8 [1)2)]	
	5.00	6	8	52	2	-	-	C1105.0	C1265.0
	5.50	6	8	52	2	-	-	C1105.5	C1265.5
	5.75	6	8	52	2	-	-	C1105.75 [1)2)]	
	6.00	6	8	52	2	-	-	C1106.0	C1266.0
1/4	6.35	10	10	60	2	-	-	C1101/4	
	6.50	10	10	60	2	-	-	C1106.5	C1266.5
	7.00	10	10	60	2	-	-	C1107.0	C1267.0
	7.50	10	10	60	2	-	-	C1107.5	C1267.5
	7.75	10	11	61	2	-	-	C1107.75 [1)2)]	
5/16	7.94	10	11	61	2	-	-	C1105/16	
	8.00	10	11	61	2	-	-	C1108.0	C1268.0

[1)] diameter tolerance h10 / Tolerancia diámetro h10 / tolerância no diâmetro h10 / tolérance sur le diamètre h10
[2)] slot not in P9 tolerance / ≠ P9 / ≠ P9 tolerância / ≠ P9 tolérance

d_1 Ø Inch	d_1 Ø mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C110	C126
	8.50	10	11	61	2	-	-	C1108.5	C1268.5
	9.00	10	11	61	2	-	-	C1109.0	C1269.0
	9.50	10	11	61	2	-	-	C1109.5	C1269.5
3/8	9.52	10	13	63	2	22.5	9.5	C1103/8	
	10.00	10	13	63	2	22.5	9.5	C11010.0	C12610.0
13/32	10.32	12	13	70	2	-	-	C11013/32	
	10.50	12	13	70	2	-	-	C11010.5	C12610.5
	11.00	12	13	70	2	-	-	C11011.0	C12611.0
7/16	11.11	12	13	70	2	-	-	C1107/16	
	11.50	12	13	70	2	-	-	C11011.5	C12611.5
	12.00	12	16	73	2	27.5	11.5	C11012.0	C12612.0
	12.50	12	16	73	2	27.5	11.5	C11012.5	C12612.5
1/2	12.70	12	16	73	2	27.5	11.5	C1101/2	
	13.00	12	16	73	2	27.5	11.5	C11013.0	C12613.0
17/32	13.49	12	16	73	2	27.5	11.5	C11017/32	
	14.00	12	16	73	2	27.5	11.5	C11014.0	C12614.0
9/16	14.29	12	16	73	2	27.5	11.5	C1109/16	
	15.00	12	16	73	2	27.5	11.5	C11015.0	C12615.0
5/8	15.88	16	19	79	2	30.5	15.5	C1105/8	
	16.00	16	19	79	2	30.5	15.5	C11016.0	C12616.0
	17.00	16	19	79	2	30.5	15.5	C11017.0	
11/16	17.46	16	19	79	2	30.5	15.5	C11011/16	
	18.00	16	19	79	2	30.5	15.5	C11018.0	C12618.0
	19.00	16	19	79	2	30.5	15.5	C11019.0	
3/4	19.05	20	22	88	2	37.5	18.5	C1103/4	
	20.00	20	22	88	2	37.5	19.5	C11020.0	C12620.0
	22.00	20	22	88	2	37.5	19.5	C11022.0	C12622.0
7/8	22.22	20	22	88	2	37.5	19.5	C1107/8	
	24.00	25	26	102	2	45.5	23.5	C11024.0	C12624.0
	25.00	25	26	102	2	45.5	24.5	C11025.0	C12625.0
1“	25.40	25	26	102	2	45.5	24.5	C1101	
	26.00	25	26	102	2	45.5	24.5	C11026.0	
	28.00	25	26	102	2	45.5	24.5	C11028.0	
	30.00	25	26	102	2	45.5	24.5	C11030.0	C12630.0
	32.00	32	32	112	2	51.5	31.5	C11032.0	
	35.00	32	32	112	2	51.5	31.5	C11035.0 [1)3)]	
	36.00	32	32	112	2	51.5	31.5	C11036.0 [1)3)]	
	40.00	40	38	130	2	59.5	39.0	C11040.0 [1)3)]	

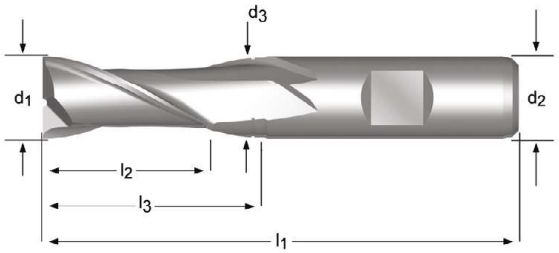
[1)] diameter tolerance h10 / Tolerancia diámetro h10 / tolerância no diâmetro h10 / tolérance sur le diamètre h10
[2)] slot not in P9 tolerance / ≠ P9 / ≠ P9 tolerância / ≠ P9 tolérance
[3)] Available in HSS-E only / Disponible solo en HSCo / Só disponível em HSCo / Disponible en HSCo seulement

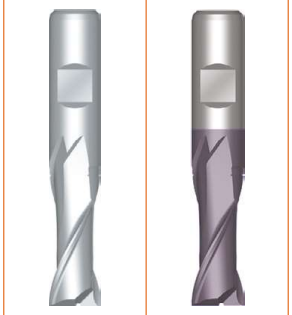
C123
C139

- Slot Drill
- Fresas de ranurar
- Fresa de Ranhurar
- Fraises à rainurer

C123	■	1.1	1.2	1.3	1.4	4.1	5.1	6.1	6.2	6.3					
	•	2.1	3.1	3.2	3.3	3.4	4.2	5.2	7.1	7.2	7.3	8.1			
C139	■	1.1	1.2	1.3	1.4	3.1	3.2	3.3	3.4	4.1	4.2	5.1	5.2	6.1	6.2	6.3
	•	1.5	1.6	2.1	2.3	4.3	5.3	6.4	7.1	7.2	7.3	7.4	8.1			

C123	HSS-E PM	P9	N	Z 2		λ30° γ12°	DIN 1835B		e8		DIN 844K
C139	HSS-E PM	P9	N	Z 2		λ30° γ12°	DIN 1835B	TiCN	e8		DIN 844K





d_1 Ø Inch	d_1 Ø mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C123	C139
1/16	1.59	6	7	51	2	-	-	C1231/16 [1]	
	2.00	6	7	51	2	-	-	C1232.0	C1392.0
	2.50	6	8	52	2	-	-	C1232.5	
	3.00	6	8	52	2	-	-	C1233.0	C1393.0
1/8	3.18	6	10	54	2	-	-	C1231/8 [1]	
	3.50	6	10	54	2	-	-	C1233.5	
5/32	3.97	6	11	55	2	-	-	C1235/32 [1]	
	4.00	6	11	55	2	-	-	C1234.0	C1394.0
	4.50	6	11	55	2	-	-	C1234.5	
3/16	4.76	6	13	57	2	-	-	C1233/16 [1]	
	5.00	6	13	57	2	-	-	C1235.0	C1395.0
	5.50	6	13	57	2	-	-	C1235.5	C1395.5
	6.00	6	13	57	2	-	-	C1236.0	C1396.0
1/4	6.35	10	16	66	2	-	-	C1231/4 [1]	
	6.50	10	16	66	2	-	-	C1236.5	C1396.5
	7.00	10	16	66	2	-	-	C1237.0	C1397.0
	7.50	10	16	66	2	-	-	C1237.5	C1397.5
5/16	7.94	10	19	69	2	-	-	C1235/16 [1]	
	8.00	10	19	69	2	-	-	C1238.0	C1398.0
	8.50	10	19	69	2	-	-	C1238.5	C1398.5
	9.00	10	19	69	2	-	-	C1239.0	C1399.0
	9.50	10	19	69	2	-	-	C1239.5	C1399.5
3/8	9.52	10	22	72	2	31.5	9.5	C1233/8 [1]	
	10.00	10	22	72	2	31.5	9.5	C12310.0	C13910.0
	11.00	12	22	79	2	-	-	C12311.0	C13911.0
	12.00	12	26	83	2	37.5	11.5	C12312.0	C13912.0
1/2	12.70	12	26	83	2	37.5	11.5	C1231/2 [1]	
	13.00	12	26	83	2	37.5	11.5	C12313.0	C13913.0

[1] diameter tolerance -0.0005 inches / -0.0013 inches / Tolerancia diámetro -.0005 pulgadas/ - .0013 pulgadas / tolerância no diâmetro-.0005 poleg. / -.0013 poleg. / tolérance sur le diamètre -.0005 inches / -.0013 inches

d_1 Ø Inch	d_1 Ø mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C123	C139
	14.00	12	26	83	2	37.5	11.5	C12314.0	C13914.0
	15.00	12	26	83	2	37.5	11.5	C12315.0	C13915.0
	16.00	16	32	92	2	43.5	15.5	C12316.0	C13916.0
	18.00	16	32	92	2	43.5	15.5	C12318.0	C13918.0
	20.00	20	38	104	2	53.5	19.5	C12320.0	C13920.0
	22.00	20	38	104	2	53.5	19.5	C12322.0	C13922.0
	25.00	25	45	121	2	64.5	24.5	C12325.0	C13925.0
	30.00	25	45	121	2	64.5	24.5	C12330.0	

[1] diameter tolerance -0.0005 inches / -0.0013 inches / Tolerancia diámetro -.0005 pulgadas/ - .0013 pulgadas / tolerância no diâmetro-.0005 poleg. / -.0013 poleg. / tolérance sur le diamètre -.0005 inches / -.0013 inches

[2] diameter tolerance -0.0005 inches / -0.0015 inches / Tolerancia diámetro -.0005 pulgadas /- .0015 pulgadas / tolerância no diâmetro-.0005 poleg. / -.0015 poleg. / tolérance sur le diamètre -.0005 inches / -.0015 inches

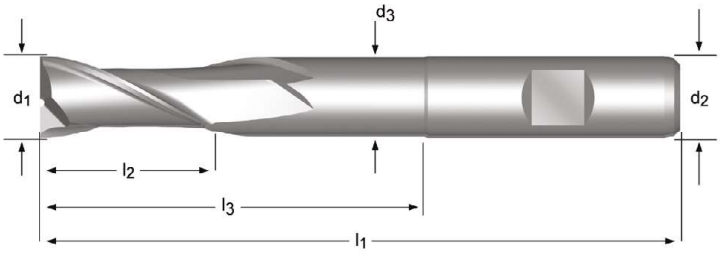
[3] Available in HSS-E only / Disponible solo en HSCo / Só disponível em HSCo / Disponible en HSCo seulement

C135

- Slot Drill
- Fresas de ranurar
- Fresa de Ranhurar
- Fraises à rainurer

C135														
	■	1.1	1.2	5.1	6.1	6.2	6.3							
	•	1.3	1.4	2.1	3.1	3.2	3.3	3.4	4.1	4.2	5.2	7.1	7.2	7.3	8.1

C135	HSS-E	P9	N	Z 2	λ 30° γ 12°	DIN 1835B	e8	DORMER



C135

2.00 - 20.00

d_1 Ø mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C135
2.00	6	7	54	2	18.0	1.8	C1352.0
3.00	6	8	56	2	20.0	2.8	C1353.0
4.00	6	11	63	2	27.0	3.7	C1354.0
5.00	6	13	68	2	32.0	4.7	C1355.0
6.00	6	13	68	2	32.0	5.7	C1356.0
8.00	10	19	88	2	48.0	7.5	C1358.0
10.00	10	22	95	2	54.5	9.5	C13510.0
12.00	12	26	110	2	64.5	11.5	C13512.0
14.00	12	26	110	2	64.5	11.5	C13514.0
16.00	16	32	123	2	74.5	15.5	C13516.0
18.00	16	32	123	2	74.5	15.5	C13518.0
20.00	20	38	141	2	90.5	19.5	C13520.0

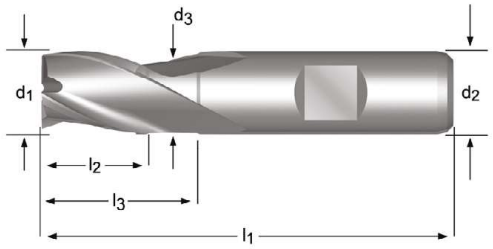
DORMER

C306
C353

- Slot Drill
- Fresas de ranurar
- Fresa de Ranhurar
- Fraises à rainurer

C306	■	1.2	1.3	4.1	5.1	6.1	6.2	6.3							
	•	1.1	1.4	2.1	3.1	3.2	3.3	3.4	4.2	5.2	7.2	7.3	8.1		
C353	■	1.2	1.3	1.4	1.5	3.1	3.2	3.3	3.4	4.1	4.2	5.1	5.2	6.1	6.2	6.3
	•	1.1	1.6	2.1	2.2	2.3	4.3	5.3	6.4	7.2	7.3	7.4	8.1			

C306	HSS-E PM	P9	N	Z 3		λ 30° γ 12°	DIN 1835B		e8 h10		DIN 327D
C353	HSS-E PM	P9	N	Z 3		λ 30° γ 12°	DIN 1835B	Alcrona	e8 h10		DIN 327D



C306	C353
	
3.00 - 30.00	3.00 - 30.00

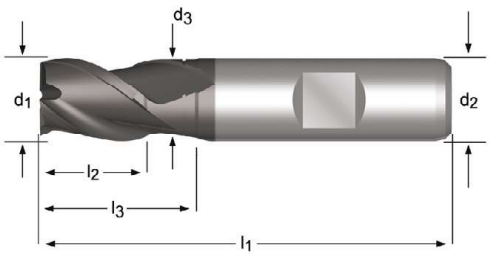
d_1 Ø mm	d_2 Øh$_6$ mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C306	C353
3.00	6	5	49	3	-	-	C3063.0	C3533.0
3.50	6	6	50	3	-	-		C3533.5
4.00	6	7	51	3	-	-	C3064.0	C3534.0
4.50	6	7	51	3	-	-		C3534.5
4.80	6	8	52	3	-	-		C3534.8
5.00	6	8	52	3	-	-	C3065.0	C3535.0
5.50	6	8	52	3	-	-		C3535.5
6.00	6	8	52	3	-	-	C3066.0	C3536.0
6.50	10	10	60	3	-	-		C3536.5
7.00	10	10	60	3	-	-	C3067.0	C3537.0
7.50	10	10	60	3	-	-		C3537.5
7.75	10	11	61	3	-	-		C3537.75
8.00	10	11	61	3	-	-	C3068.0	C3538.0
8.50	10	11	61	3	-	-		C3538.5
9.00	10	11	61	3	-	-	C3069.0	C3539.0
9.50	10	11	61	3	-	-	C3069.5	C3539.5
10.00	10	13	63	3	22.5	9.5	C30610.0	C35310.0
11.00	12	13	70	3	-	-	C30611.0	C35311.0
12.00	12	16	73	3	27.5	11.5	C30612.0	C35312.0
13.00	12	16	73	3	27.5	11.5		C35313.0
14.00	12	16	73	3	27.5	11.5	C30614.0	C35314.0
15.00	12	16	73	3	27.5	11.5	C30615.0	C35315.0
16.00	16	19	79	3	30.5	15.5	C30616.0	C35316.0
18.00	16	19	79	3	30.5	15.5	C30618.0	C35318.0
20.00	20	22	88	3	37.5	19.5	C30620.0	C35320.0
22.00	20	22	88	3	37.5	19.5	C30622.0	C35322.0
25.00	25	26	102	3	45.5	24.5	C30625.0	C35325.0
28.00	25	26	102	3	45.5	24.5		C35328.0
30.00	25	26	102	3	45.5	24.5	C30630.0	C35330.0

C367

- Slot Drill
- Fresas de ranurar
- Fresa de Ranhurar
- Fraises à rainurer

C367									
	■	1.1	1.2	2.1	2.2	2.3	2.4	6.1	7.1
	•	1.3	1.4	4.1	5.1	6.2	6.3	7.2	7.3	8.1

C367 | HSS-E PM | P9 | N | Z 3 | λ40° γ15° | DIN 1835B | Alcrona | e8 | DIN 327D



C367

2.00 - 20.00

d_1 Ø mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C367
2.00	6	4	48	3	-	-	C3672.0
3.00	6	5	49	3	-	-	C3673.0
4.00	6	7	51	3	-	-	C3674.0
5.00	6	8	52	3	-	-	C3675.0
6.00	6	8	52	3	-	-	C3676.0
7.00	10	10	60	3	-	-	C3677.0
8.00	10	11	61	3	-	-	C3678.0
10.00	10	13	63	3	22.5	9.5	C36710.0
11.00	12	13	70	3	-	-	C36711.0
12.00	12	16	73	3	27.5	11.5	C36712.0
14.00	12	16	73	3	27.5	11.5	C36714.0
16.00	16	19	79	3	30.5	15.5	C36716.0
18.00	16	19	79	3	30.5	15.5	C36718.0
20.00	20	22	88	3	37.5	19.5	C36720.0

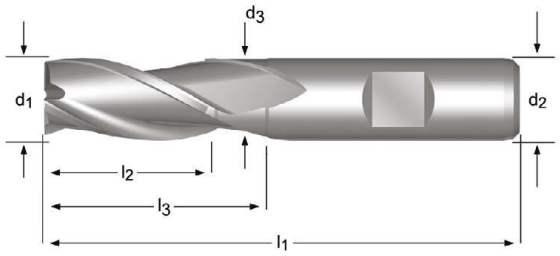
DORMER

C305
C352

- Slot Drill
- Fresas de ranurar
- Fresa de Ranhurar
- Fraises à rainurer

C305	■	1.2	1.3	4.1	5.1	5.2	6.1	6.2	6.3						
	•	1.1	1.4	2.1	3.1	3.2	3.3	3.4	4.2	7.2	7.3	8.1			
C352	■	1.2	1.3	1.4	1.5	3.1	3.2	3.3	3.4	4.1	4.2	5.1	5.2	6.1	6.2	6.3
	•	1.1	1.6	2.1	2.2	2.3	4.3	5.3	6.4	7.2	7.3	7.4	8.1			

C305	HSS-E PM	P9	N	Z 3		λ30° γ12°	DIN 1835B		e8		DIN 844K
C352	HSS-E PM	P9	N	Z 3		λ30° γ12°	DIN 1835B	Alcrona	e8		DIN 844K




C305

2.00 - 32.00


C352

3.00 - 20.00

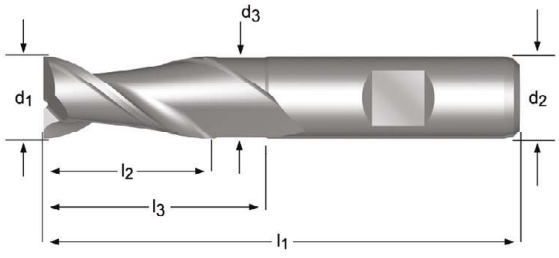
d_1 Ø mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C305	C352
2.00	6	7	51	3	-	-	C3052.0	
2.50	6	8	52	3	-	-	C3052.5	
3.00	6	8	52	3	-	-	C3053.0	C3523.0
3.50	6	10	54	3	-	-	C3053.5	
4.00	6	11	55	3	-	-	C3054.0	C3524.0
4.50	6	11	55	3	-	-	C3054.5	
5.00	6	13	57	3	-	-	C3055.0	C3525.0
5.50	6	13	57	3	-	-	C3055.5	
6.00	6	13	57	3	-	-	C3056.0	C3526.0
6.50	10	16	66	3	-	-	C3056.5	
7.00	10	16	66	3	-	-	C3057.0	
7.50	10	16	66	3	-	-	C3057.5	
8.00	10	19	69	3	-	-	C3058.0	C3528.0
8.50	10	19	69	3	-	-	C3058.5	
9.00	10	19	69	3	-	-	C3059.0	
10.00	10	22	72	3	31.5	9.5	C30510.0	C35210.0
11.00	12	22	79	3	-	-	C30511.0	
12.00	12	26	83	3	37.5	11.5	C30512.0	C35212.0
13.00	12	26	83	3	37.5	11.5	C30513.0	
14.00	12	26	83	3	37.5	11.5	C30514.0	C35214.0
15.00	12	26	83	3	37.5	11.5	C30515.0	
16.00	16	32	92	3	43.5	15.5	C30516.0	C35216.0
17.00	16	32	92	3	43.5	15.5	C30517.0	
18.00	16	32	92	3	43.5	15.5	C30518.0	C35218.0
19.00	16	32	92	3	43.5	15.5	C30519.0	
20.00	20	38	104	3	53.5	19.5	C30520.0	C35220.0
22.00	20	38	104	3	53.5	19.5	C30522.0	
25.00	25	45	121	3	-	-	C30525.0	
28.00	25	45	121	3	-	-	C30528.0	
30.00	25	45	121	3	-	-	C30530.0	
32.00	32	53	133	3	-	-	C30532.0	

C159

- Slot Drill
- Fresas de ranurar
- Fresa de Ranhurar
- Fraises à rainurer

C159	■	1.1	6.1	6.2	6.3	7.1	7.2	7.3	8.1	8.2
	•	1.2	1.3	2.1	2.2	4.1	5.1			

C159	HSS-E	P9	W	Z 2		λ40° γ20°	DIN 1835B		e8		DIN 844K



C159

2.00 - 20.00

d1 Ø mm	d2 Øh6 mm	l2 mm	l1 mm	z	l3 mm	d3 Ø mm	C159
2.00	6	7	51	2	-	-	C1592.0
3.00	6	8	52	2	-	-	C1593.0
4.00	6	11	55	2	-	-	C1594.0
5.00	6	13	57	2	-	-	C1595.0
6.00	6	13	57	2	-	-	C1596.0
8.00	10	19	69	2	-	-	C1598.0
10.00	10	22	72	2	-	-	C15910.0
12.00	12	26	83	2	-	-	C15912.0
14.00	12	26	83	2	37.5	11.5	C15914.0
16.00	16	32	92	2	43.5	15.5	C15916.0
18.00	16	32	92	2	43.5	15.5	C15918.0
20.00	20	38	104	2	53.5	19.5	C15920.0

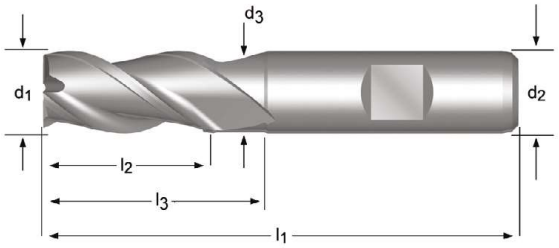
DORMER

C336

- End Mill
- Fresas de acabado
- Fresa de Acabamento
- Fraises de finition

C336								
■	6.1	6.2	6.3	7.1	7.2	7.3	8.1	8.2
•	1.1	1.2	1.3	2.1	2.2	4.1	5.1	

C336	HSS-E PM		W	Z 3		λ 40° γ 25°	DIN 1835B		k10		DIN 844K



C336

10.00 - 30.00

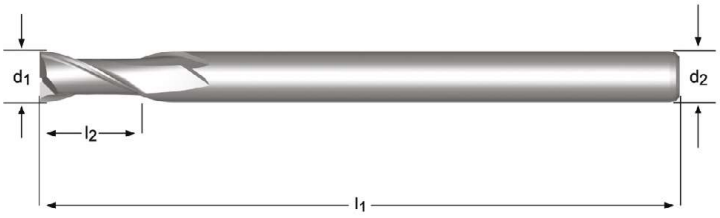
d_1 Ø mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C336
10.00	10	22	72	3	31.5	9.5	C33610.0
12.00	12	26	83	3	37.5	11.5	C33612.0
14.00	12	26	83	3	37.5	11.5	C33614.0
16.00	16	32	92	3	43.5	15.5	C33616.0
18.00	16	32	92	3	43.5	15.5	C33618.0
20.00	20	38	104	3	53.5	19.5	C33620.0
22.00	20	38	104	3	53.5	19.5	C33622.0
25.00	25	45	121	3	64.5	24.5	C33625.0
30.00	25	45	121	3	64.5	24.5	C33630.0

C167

- End Mill
- Fresas de acabado
- Fresa de Acabamento
- Fraises de finition

C167														
	■	1.1	1.2	5.1	6.1	6.2	6.3							
	•	1.3	1.4	2.1	3.1	3.2	3.3	3.4	4.1	4.2	5.2	7.1	7.2	7.3	8.1

C167	HSS-E		N	Z 2		λ 30° γ 12°	DIN 1835A		js14		DORMER



C167

6.00 - 16.00

d_1 Ø mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	C167
6.00	6	13	180	2	C1676.0
8.00	8	19	180	2	C1678.0
10.00	10	22	200	2	C16710.0
12.00	12	26	200	2	C16712.0
16.00	16	32	200	2	C16716.0

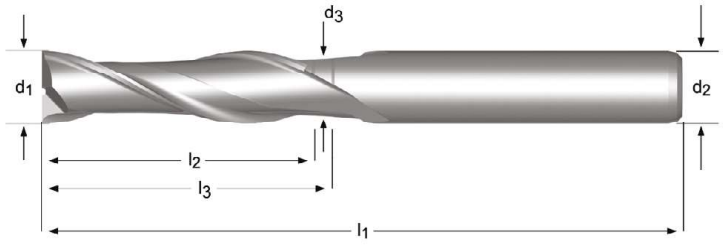
DORMER

C122

- End Mill
- Fresas de acabado
- Fresa de Acabamento
- Fraises de finition

C122	▪	1.1	1.2	5.1	6.1	6.2	6.3							
	•	1.3	1.4	2.1	3.1	3.2	3.3	3.4	4.1	4.2	5.2	7.1	7.2	7.3	8.1

C122	HSS-E		N	Z 2		λ 30° γ 12°	DIN 1835A		e8		DORMER



C122

5.00 - 22.00

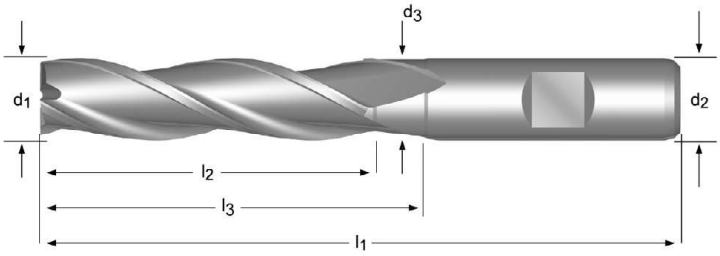
d_1 Ø mm	d_2 Øh$_6$ mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C122
5.00	5	22	65	2	-	-	C1225.0
6.00	6	27	75	2	-	-	C1226.0
7.00	8	33	85	2	-	-	C1227.0
8.00	8	33	85	2	-	-	C1228.0
10.00	10	40	95	2	-	-	C12210.0
12.00	12	45	110	2	-	-	C12212.0
14.00	12	52	125	2	-	-	C12214.0
16.00	16	58	140	2	69.5	15.5	C12216.0
18.00	16	65	150	2	76.5	15.5	C12218.0
20.00	20	70	160	2	85.5	19.5	C12220.0
22.00	20	75	170	2	90.5	19.5	C12222.0

C346

- End Mill
- Fresas de acabado
- Fresa de Acabamento
- Fraises de finition

C346	■	1.2	4.1	5.1	6.1	6.2	6.3							
	•	1.1	1.3	1.4	2.1	3.1	3.2	3.3	3.4	4.2	5.2	7.1	7.2	8.1

C346	HSS-E		N	Z 3		λ 30° γ 12°	DIN 1835B		e8		DIN 844L



C346

3.00 - 20.00

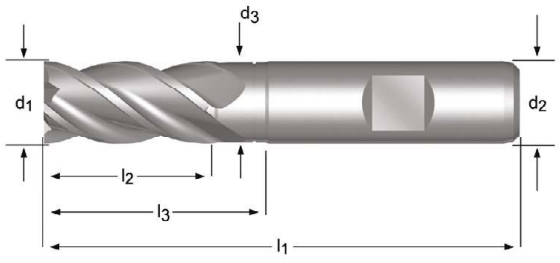
d_1 Ø mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C346
3.00	6	12	56	3	-	-	C3463.0
4.00	6	19	63	3	-	-	C3464.0
5.00	6	24	68	3	-	-	C3465.0
6.00	6	24	68	3	-	-	C3466.0
7.00	10	30	80	3	-	-	C3467.0
8.00	10	38	88	3	-	-	C3468.0
9.00	10	38	88	3	-	-	C3469.0
10.00	10	45	95	3	-	-	C34610.0
11.00	12	45	102	3	-	-	C34611.0
12.00	12	53	110	3	-	-	C34612.0
13.00	12	53	110	3	64.5	11.5	C34613.0
15.00	12	53	110	3	64.5	11.5	C34615.0
16.00	16	63	123	3	74.5	15.5	C34616.0
20.00	20	75	141	3	90.5	19.5	C34620.0

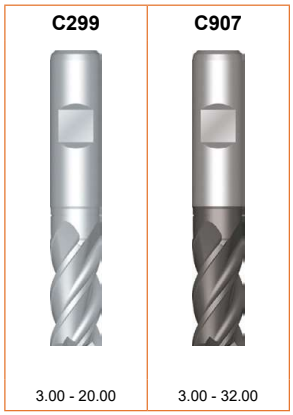
C299
C907

- End Mill
- Fresas de acabado
- Fresa de Acabamento
- Fraises de finition

C299	■	1.3	1.4	1.5	2.1	2.3	3.1	3.2	3.3	3.4	4.2	4.3	5.1	5.2	5.3	6.2	7.4	
	•	1.6	2.2	4.1														
C907	■	1.3	1.4	1.5	1.6	2.1	2.2	2.3	3.1	3.2	3.3	3.4	4.2	4.3	5.1	5.2	5.3	6.2	7.4
	•	4.1																

C299	HSS-E PM		N	Z 3-5		λ45° γ12°	DIN 1835B		k10		DIN 844K
C907	HSS-E PM		N	Z 3-6		λ45° γ12°	DIN 1835B	Alcrona	k10		DIN 844K





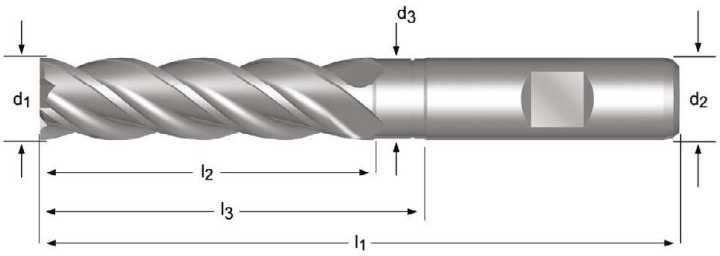
d_1 Ø mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C299	C907
3.00	6	8	52	3	-	-	C2993.0	C9073.0
4.00	6	11	55	3	-	-	C2994.0	C9074.0
5.00	6	13	57	3	-	-	C2995.0	C9075.0
6.00	6	13	57	3	-	-	C2996.0	C9076.0
8.00	10	19	69	4	-	-	C2998.0	C9078.0
10.00	10	22	72	4	31.5	9.5	C29910.0	C90710.0
12.00	12	26	83	4	37.5	11.5	C29912.0	C90712.0
14.00	12	26	83	4	37.5	11.5	C29914.0	C90714.0
16.00	16	32	92	4	43.5	15.5	C29916.0	C90716.0
18.00	16	32	92	4	43.5	15.5	C29918.0	C90718.0
20.00	20	38	104	4	53.5	19.5	C29920.0	C90720.0
22.00	20	38	104	5	53.5	19.5		C90722.0
28.00	25	45	121	6	64.5	24.5		C90728.0
30.00	25	45	121	6	64.5	24.5		C90730.0
32.00	32	53	133	6	72.5	31.5		C90732.0

C920

- End Mill
- Fresas de acabado
- Fresa de Acabamento
- Fraises de finition

C920																		
	■	1.3	1.4	1.5	1.6	2.1	2.2	2.3	3.1	3.2	3.3	3.4	4.2	4.3	5.1	5.2	5.3	6.2	7.4
	●	4.1																	

C920	HSS-E PM		N	Z 3-5		λ 45° γ 12°	DIN 1835B	Alcrona	k10		DIN 844L



d_1 Ø mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C920
6.00	6	24	68	3	-	-	C9206.0
8.00	10	38	88	4	-	-	C9208.0
10.00	10	45	95	4	54.5	9.5	C92010.0
12.00	12	53	110	4	64.5	11.5	C92012.0
14.00	12	53	110	4	64.5	11.5	C92014.0
16.00	16	63	123	4	74.5	15.5	C92016.0
18.00	16	63	123	4	74.5	15.5	C92018.0
20.00	20	75	141	4	90.5	19.5	C92020.0
22.00	20	75	141	5	90.5	19.5	C92022.0
25.00	25	90	166	5	109.5	24.5	C92025.0

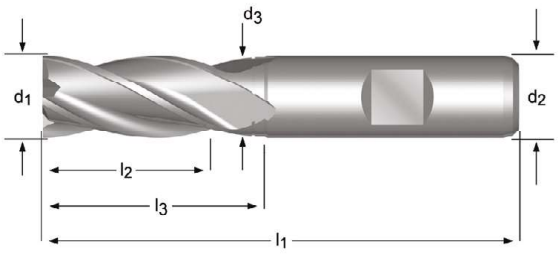
DORMER

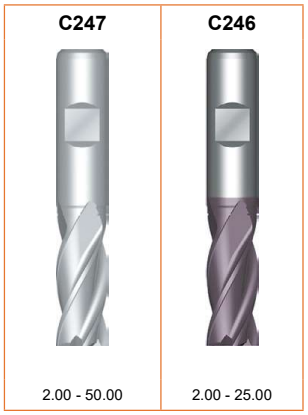
C247
C246

- End Mill
- Fresas de acabado
- Fresa de Acabamento
- Fraises de finition

C247	■	1.1	1.2	1.3	4.1	5.1	6.1	6.2	6.3						
	•	1.4	2.1	3.1	3.2	3.3	3.4	4.2	5.2	7.1	7.2	7.3	8.1		
C246	■	1.1	1.2	1.3	1.4	3.1	3.2	3.3	3.4	4.1	4.2	5.1	5.2	6.1	6.2	6.3
	•	1.5	1.6	2.1	2.3	4.3	5.3	6.4	7.1	7.2	7.3	7.4	8.1			

C247	HSS-E PM		N	Z 4-8		λ30° γ12°	DIN 1835B		k10		DIN 844K
C246	HSS-E PM		N	Z 4-6		λ30° γ12°	DIN 1835B	 TiCN	k10		DIN 844K





d_1 Ø Inch	d_1 Ø mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C247	C246
	2.00	6	7	51	4	-	-	C2472.0	C2462.0
	2.50	6	8	52	4	-	-	C2472.5	
	3.00	6	8	52	4	-	-	C2473.0	C2463.0
1/8	3.18	6	10	54	4	-	-	C2471/8 [1)]	
	3.50	6	10	54	4	-	-	C2473.5	
	4.00	6	11	55	4	-	-	C2474.0	C2464.0
	4.50	6	11	55	4	-	-	C2474.5	
3/16	4.76	6	13	57	4	-	-	C2473/16 [1)]	
	5.00	6	13	57	4	-	-	C2475.0	C2465.0
	5.50	6	13	57	4	-	-	C2475.5	
	6.00	6	13	57	4	-	-	C2476.0	C2466.0
1/4	6.35	10	16	66	4	-	-	C2471/4 [1)]	
	6.50	10	16	66	4	-	-	C2476.5	
	7.00	10	16	66	4	-	-	C2477.0	C2467.0
	7.50	10	16	66	4	-	-	C2477.5	
5/16	7.94	10	19	69	4	-	-	C2475/16 [1)]	
	8.00	10	19	69	4	-	-	C2478.0	C2468.0
	8.50	10	19	69	4	-	-	C2478.5	
	9.00	10	19	69	4	-	-	C2479.0	
	9.50	10	19	69	4	-	-	C2479.5	
3/8	9.52	10	22	72	4	31.5	9.5	C2473/8 [1)]	
	10.00	10	22	72	4	31.5	9.5	C24710.0	C24610.0
	11.00	12	22	79	4	-	-	C24711.0	C24611.0
	12.00	12	26	83	4	37.5	11.5	C24712.0	C24612.0
1/2	12.70	12	26	83	4	37.5	11.5	C2471/2 [1)]	
	13.00	12	26	83	4	37.5	11.5	C24713.0	C24613.0
	14.00	12	26	83	4	37.5	11.5	C24714.0	C24614.0
9/16	14.29	12	26	83	4	37.5	11.5	C2479/16 [1)]	
	15.00	12	26	83	4	37.5	11.5	C24715.0	C24615.0
5/8	15.88	16	32	92	4	43.5	15.5	C2475/8 [1)]	

[1)] diameter tolerance +0.0025 inches / -0.0005 inches / Tolerancia diámetro + .0025 pulgadas/ -.0005 pulgadas / tolerância no diâmetro+.0025 poleg. / -.0005 poleg. / tolérance sur le diamètre +.0025 inches / -.0005 inches

d_1 Ø Inch	d_1 Ø mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C247	C246
	16.00	16	32	92	4	43.5	15.5	C24716.0	C24616.0
	17.00	16	32	92	4	43.5	15.5	C24717.0	
	18.00	16	32	92	4	43.5	15.5	C24718.0	C24618.0
	19.00	16	32	92	4	43.5	15.5	C24719.0	
3/4	19.05	20	38	104	4	53.5	18.5	C2473/4 [1)]	
	20.00	20	38	104	4	53.5	19.5	C24720.0	C24620.0
	21.00	20	38	104	4	53.5	19.5	C24721.0	
	22.00	20	38	104	5	53.5	19.5	C24722.0	C24622.0
7/8	22.22	20	38	104	5	53.5	19.5	C2477/8 [1)]	
	23.00	20	38	104	5	53.5	19.5	C24723.0	
	24.00	25	45	121	5	64.5	23.5	C24724.0	
	25.00	25	45	121	5	64.5	24.5	C24725.0	C24625.0
1“	25.40	25	45	121	5	64.5	24.5	C2471 [1)]	
	26.00	25	45	121	6	64.5	24.5	C24726.0	
	28.00	25	45	121	6	64.5	24.5	C24728.0	
	30.00	25	45	121	6	64.5	24.5	C24730.0	
	32.00	32	53	133	6	72.5	31.5	C24732.0	
	36.00	32	53	133	6	72.5	31.5	C24736.0 [2)3)]	
	40.00	40	63	155	6	84.5	39.0	C24740.0 [2)3)]	
	50.00	50	75	177	8	96.5	48.0	C24750.0 [2)3)]	

[1)] diameter tolerance +0.0025 inches / -0.0005 inches / Tolerancia diámetro + .0025 pulgadas/ -.0005 pulgadas / tolerância no diâmetro+.0025 poleg. / -.0005 poleg. / tolérance sur le diamètre +.0025 inches / -.0005 inches
[2)] No centre Cutting / Sin corte al centro / Sem corte central / Pas de coupe au centre
[3)] Available in HSS-E only / Disponible solo en HSCo / Só disponível em HSCo / Disponible en HSCo seulement

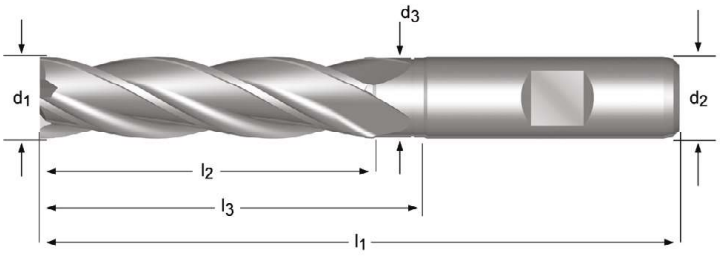
DORMER

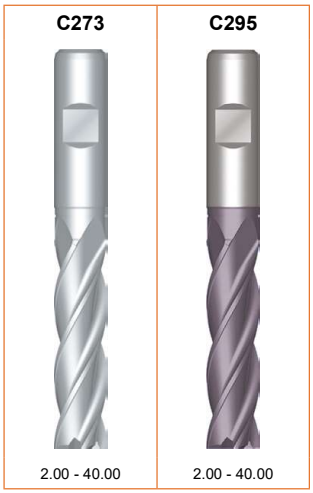
C273
C295

- End Mill
- Fresas de acabado
- Fresa de Acabamento
- Fraises de finition

C273	■	1.1	1.2	1.3	4.1	5.1	6.1	6.2	6.3						
	•	1.4	2.1	3.1	3.2	3.3	3.4	4.2	5.2	7.1	7.2	7.3	8.1		
C295	■	1.1	1.2	1.3	1.4	3.1	3.2	3.3	3.4	4.1	4.2	5.1	5.2	6.1	6.2	6.3
	•	1.5	1.6	2.1	2.3	4.3	5.3	6.4	7.1	7.2	7.3	7.4	8.1			

C273	HSS-E PM		N	Z 4-6		λ30° γ12°	DIN 1835B		k10		DIN 844L
C295	HSS-E PM		N	Z 4-6		λ30° γ12°	DIN 1835B	 TiCN	k10		DIN 844L





d_1 Ø Inch	d_1 Ø mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C273	C295
	2.00	6	10	54	4	-	-	C2732.0	C2952.0
	2.50	6	12	56	4	-	-	C2732.5	
	3.00	6	12	56	4	-	-	C2733.0	C2953.0
1/8	3.18	6	15	59	4	-	-	C2731/8 [1)]	
	3.50	6	15	59	4	-	-	C2733.5	
	4.00	6	19	63	4	-	-	C2734.0	C2954.0
	4.50	6	19	63	4	-	-	C2734.5	
3/16	4.76	6	24	68	4	-	-	C2733/16 [1)]	
	5.00	6	24	68	4	-	-	C2735.0	C2955.0
	5.50	6	24	68	4	-	-	C2735.5	
	6.00	6	24	68	4	-	-	C2736.0	C2956.0
1/4	6.35	10	30	80	4	-	-	C2731/4 [1)]	
	7.00	10	30	80	4	-	-	C2737.0	C2957.0
	8.00	10	38	88	4	-	-	C2738.0	C2958.0
	9.00	10	38	88	4	-	-	C2739.0	C2959.0
3/8	9.52	10	45	95	4	54.5	9.5	C2733/8 [1)]	
	10.00	10	45	95	4	54.5	9.5	C27310.0	C29510.0
	11.00	12	45	102	4	-	-	C27311.0	C29511.0
	12.00	12	53	110	4	64.5	11.5	C27312.0	C29512.0
1/2	12.70	12	53	110	4	64.5	11.5	C2731/2 [1)]	
	13.00	12	53	110	4	64.5	11.5	C27313.0	
	14.00	12	53	110	4	64.5	11.5	C27314.0	
	15.00	12	53	110	4	64.5	11.5	C27315.0	C29515.0
5/8	15.88	16	63	123	4	74.5	15.5	C2735/8 [1)]	
	16.00	16	63	123	4	74.5	15.5	C27316.0	C29516.0
	18.00	16	63	123	4	74.5	15.5	C27318.0	C29518.0

[1)] diameter tolerance +0.0025 inches / -0.0005 inches / Tolerancia diámetro + .0025 pulgadas/ -.0005 pulgadas / tolerância no diâmetro+.0025 poleg. / -.0005 poleg. / tolérance sur le diamètre +.0025 inches / -.0005 inches

d_1 Ø Inch	d_1 Ø mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C273	C295
3/4	19.05	20	75	141	4	90.5	18.5	C2733/4 [1]	
	20.00	20	75	141	4	90.5	19.5	C27320.0	C29520.0
	22.00	20	75	141	5	90.5	19.5	C27322.0	
	25.00	25	90	166	5	109.5	24.5	C27325.0	C29525.0
1“	25.40	25	90	166	5	109.5	24.5	C2731 [1]	
	28.00	25	90	166	6	109.5	24.5	C27328.0	
	30.00	25	90	166	6	109.5	24.5	C27330.0	C29530.0
	32.00	32	106	186	6	125.5	31.5	C27332.0	C29532.0
	40.00	40	125	217	6	146.5	39.0	C27340.0 [2)3)]	C29540.0

[1] diameter tolerance +0.0025 inches / -0.0005 inches / Tolerancia diámetro + .0025 pulgadas/ -.0005 pulgadas / tolerância no diâmetro+.0025 poleg. / -.0005 poleg. / tolérance sur le diamètre +.0025 inches / -.0005 inches
[2] Available in HSS-E only / Disponible solo en HSCo / Só disponível em HSCo / Disponible en HSCo seulement
[3] No centre Cutting / Sin corte al centro / Sem corte central / Pas de coupe au centre

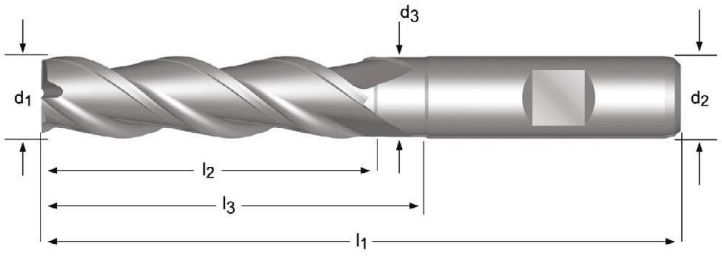
DORMER

C333

- End Mill
- Fresas de acabado
- Fresa de Acabamento
- Fraises de finition

C333 ▪ 6.1 6.2 6.3 7.1 7.2 7.3 8.1 8.2

C333	HSS-E PM		W	Z 3		λ 40° γ 25°	DIN 1835B		k10		DIN 844L



C333

10.00 - 30.00

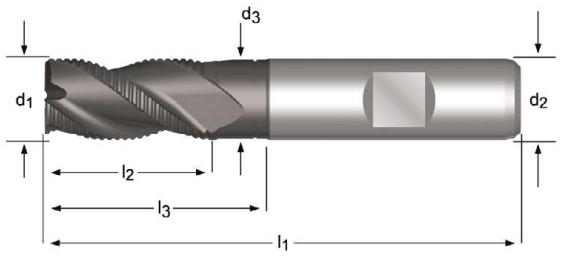
d_1 Ø mm	d_2 Øh$_6$ mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C333
10.00	10	45	95	3	54.5	9.5	C33310.0
12.00	12	53	110	3	64.5	11.5	C33312.0
14.00	12	53	110	3	64.5	11.5	C33314.0
16.00	16	63	123	3	74.5	15.5	C33316.0
18.00	16	63	123	3	74.5	15.5	C33318.0
20.00	20	75	141	3	90.5	19.5	C33320.0
25.00	25	90	166	3	109.5	24.5	C33325.0
30.00	25	90	166	3	109.5	24.5	C33330.0

C922

- Roughing End Mill
- Fresas desbaste
- Fresa de Desbaste
- Fraises d'ébauche

C922																	
	■	1.4	1.5	1.6	2.1	2.2	2.3	3.1	3.2	3.3	3.4	4.2	4.3	5.2	5.3	6.2	7.4
	•	1.3	4.1	5.1	6.4												

C922	HSS-E PM		HRA	Z 3-4		λ35° γ12°	DIN 1835B	Alcrona	k12		DIN 844K



d_1 Ø mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C922
6.00	6	13	57	3	-	-	C9226.0
7.00	10	16	66	3	-	-	C9227.0
8.00	10	19	69	3	-	-	C9228.0
9.00	10	19	69	3	-	-	C9229.0
10.00	10	22	72	3	31.5	9.5	C92210.0
11.00	12	22	79	3	-	-	C92211.0
12.00	12	26	83	3	37.5	11.5	C92212.0
13.00	12	26	83	3	37.5	11.5	C92213.0
14.00	12	26	83	3	37.5	11.5	C92214.0
15.00	12	26	83	3	37.5	11.5	C92215.0
16.00	16	32	92	3	43.5	15.5	C92216.0
18.00	16	32	92	3	43.5	15.5	C92218.0
20.00	20	38	104	3	53.5	19.5	C92220.0
22.00	20	38	104	3	53.5	19.5	C92222.0
24.00	25	45	121	4	64.5	23.5	C92224.0
25.00	25	45	121	4	64.5	24.5	C92225.0
28.00	25	45	121	4	64.5	24.5	C92228.0
32.00	32	53	133	4	72.5	31.5	C92232.0

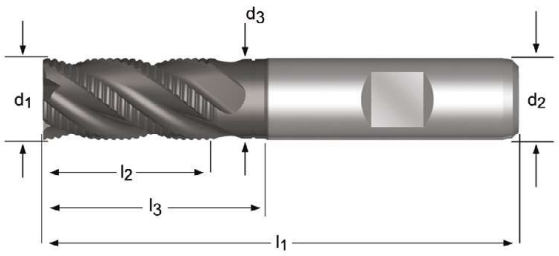
DORMER

C428

- Roughing End Mill
- Fresas desbaste
- Fresa de Desbaste
- Fraises d'ébauche

C428	■	1.4	1.5	1.6	2.1	2.2	2.3	3.1	3.2	3.3	3.4	4.2	4.3	5.2	5.3	6.2	7.4
	•	1.3	4.1	5.1	6.4												

C428 | HSS-E PM | HRA | Z 4-6 | λ 35° γ 12° | DIN 1835B | Alcrona | k12 | DIN 844K



C428

6.00 - 40.00

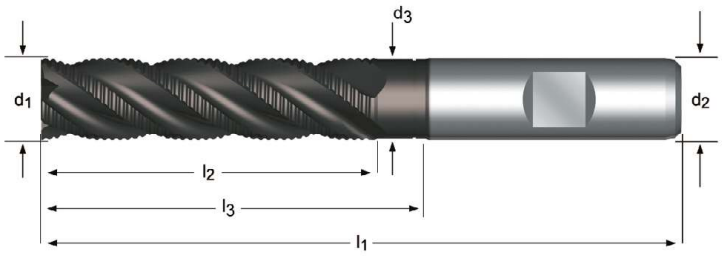
d_1 Ø mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C428
6.00	6	13	57	4	-	-	C4286.0
7.00	10	16	66	4	-	-	C4287.0
8.00	10	19	69	4	-	-	C4288.0
9.00	10	19	69	4	-	-	C4289.0
10.00	10	22	72	4	31.5	9.5	C42810.0
11.00	12	22	79	4	-	-	C42811.0
12.00	12	26	83	4	37.5	11.5	C42812.0
13.00	12	26	83	4	37.5	11.5	C42813.0
14.00	12	26	83	4	37.5	11.5	C42814.0
15.00	12	26	83	4	37.5	11.5	C42815.0
16.00	16	32	92	4	43.5	15.5	C42816.0
18.00	16	32	92	4	43.5	15.5	C42818.0
20.00	20	38	104	4	53.5	19.5	C42820.0
22.00	20	38	104	4	53.5	19.5	C42822.0
25.00	25	45	121	6	64.5	24.5	C42825.0
28.00	25	45	121	6	64.5	24.5	C42828.0
30.00	25	45	121	6	64.5	24.5	C42830.0
32.00	32	53	133	6	72.5	31.5	C42832.0
36.00	32	53	133	6	72.5	31.0	C42836.0
40.00	40	63	155	6	84.5	39.0	C42840.0

C492

- Roughing End Mill
- Fresas desbaste
- Fresa de Desbaste
- Fraises d'ébauche

C492																		
	■	1.3	1.4	1.5	1.6	2.1	2.2	2.3	3.1	3.2	3.3	3.4	4.2	4.3	5.2	5.3	6.2	7.4
	•	4.1	5.1	6.4														

C492	HSS-E PM		HRA	Z 3-6		λ35° γ12°	DIN 1835B	Alcrona	k12		DIN 844L



C492

6.00 - 30.00

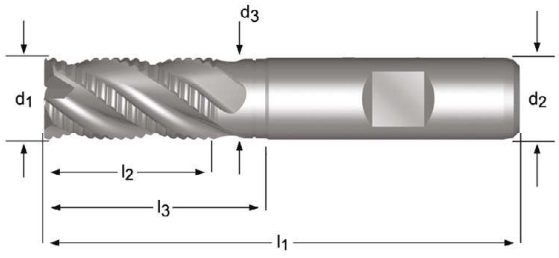
d_1 Ø mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C492
6.00	6	24	68	3	-	-	C4926.0
8.00	10	38	88	3	-	-	C4928.0
10.00	10	45	95	4	54.5	9.5	C49210.0
12.00	12	53	110	4	64.5	11.5	C49212.0
14.00	12	53	110	4	64.5	11.5	C49214.0
16.00	16	63	123	4	74.5	15.5	C49216.0
18.00	16	63	123	4	74.5	15.5	C49218.0
20.00	20	75	141	4	90.5	19.5	C49220.0
22.00	20	75	141	4	90.5	19.5	C49222.0
25.00	25	90	166	6	109.5	24.5	C49225.0
30.00	25	90	166	6	109.5	24.5	C49230.0

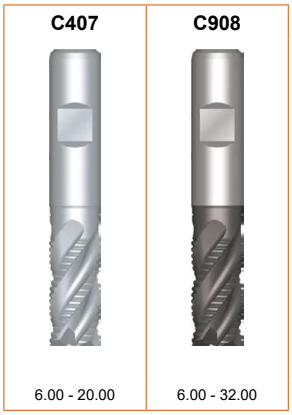
C407
C908

- Roughing End Mill
- Fresas desbaste
- Fresa de Desbaste
- Fraises d'ébauche

C407	■	1.2	1.3	1.4	1.5	2.1	2.3	3.1	3.2	3.3	3.4	4.2	4.3	5.2	5.3	6.2
	•	1.1	1.6	2.2	4.1	5.1	6.4	7.4								
C908	■	1.3	1.4	1.5	2.1	2.2	2.3	3.1	3.2	3.3	3.4	4.2	4.3	5.2	5.3	6.2
	•	1.6	4.1	5.1	6.4	7.4										

C407	HSS-E PM		NRA	Z 4-6		λ35° γ12°	DIN 1835B		k12		DIN 844K
C908	HSS-E PM		NRA	Z 4-6		λ35° γ12°	DIN 1835B	Alcrona	k12		DIN 844K





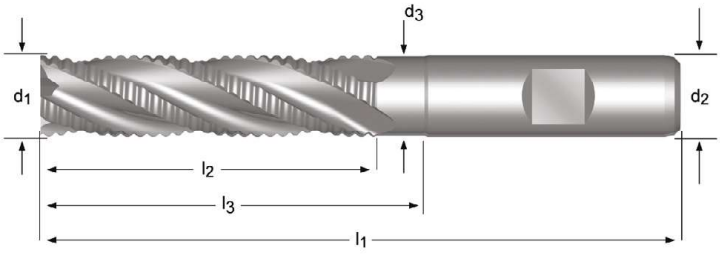
d_1 Ø mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C407	C908
6.00	6	13	57	4	-	-	C4076.0	C9086.0
7.00	10	16	66	4	-	-	C4077.0	C9087.0
8.00	10	19	69	4	-	-	C4078.0	C9088.0
9.00	10	19	69	4	-	-	C4079.0	C9089.0
10.00	10	22	72	4	31.5	9.5	C40710.0	C90810.0
11.00	12	22	79	4	-	-	C40711.0	C90811.0
12.00	12	26	83	4	37.5	11.5	C40712.0	C90812.0
13.00	12	26	83	4	37.5	11.5	C40713.0	C90813.0
14.00	12	26	83	4	37.5	11.5	C40714.0	C90814.0
15.00	12	26	83	4	37.5	11.5	C40715.0	C90815.0
16.00	16	32	92	4	43.5	15.5	C40716.0	C90816.0
18.00	16	32	92	4	43.5	15.5	C40718.0	C90818.0
20.00	20	38	104	4	53.5	19.5	C40720.0	C90820.0
22.00	20	38	104	4	53.5	19.5		C90822.0
25.00	25	45	121	6	64.5	24.5		C90825.0
30.00	25	45	121	6	64.5	24.5		C90830.0
32.00	32	53	133	6	72.5	31.5		C90832.0

C948

- Roughing End Mill
- Fresas desbaste
- Fresa de Desbaste
- Fraises d'ébauche

C948																		
	■	1.3	1.4	1.5	1.6	2.1	2.2	2.3	3.1	3.2	3.3	3.4	4.2	4.3	5.2	5.3	6.2	7.4
	•	4.1	5.1	6.4														

C948	HSS-E PM		NRA	Z 4-6		λ35° γ12°	DIN 1835B	Alcrona	k12		DIN 844L



C948

6.00 - 32.00

d_1 Ø mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C948
6.00	6	24	68	4	-	-	C9486.0
8.00	10	38	88	4	-	-	C9488.0
10.00	10	45	95	4	54.5	9.5	C94810.0
12.00	12	53	110	4	64.5	11.5	C94812.0
14.00	12	53	110	4	64.5	11.5	C94814.0
16.00	16	63	123	4	74.5	15.5	C94816.0
18.00	16	63	123	4	74.5	15.5	C94818.0
20.00	20	75	141	4	90.5	19.5	C94820.0
25.00	25	90	166	6	109.5	24.5	C94825.0
30.00	25	90	166	6	109.5	24.5	C94830.0
32.00	32	106	186	6	125.5	31.5	C94832.0

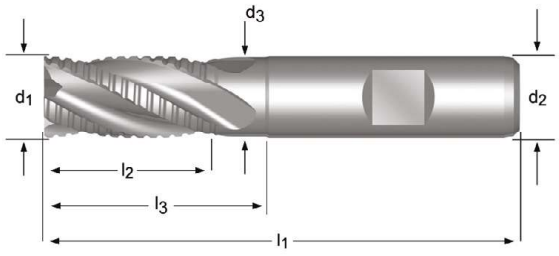
DORMER

C400
C413

- Roughing End Mill
- Fresas desbaste
- Fresa de Desbaste
- Fraises d'ébauche

C400	■	1.2	1.3	6.2	6.3										
	•	1.1	1.4	2.1	3.1	3.2	3.3	3.4	4.1	4.2	5.1	5.2	6.1	7.2	7.3	8.1
C413	■	1.2	1.3	1.4	3.1	3.2	3.3	3.4	4.2	5.2	6.2	6.3				
	•	1.1	1.5	1.6	2.1	2.3	4.1	4.3	5.1	5.3	6.1	6.4	7.2	7.3	7.4	8.1

C400	HSS-E		NF	Z 4-6		λ30° γ12°	DIN 1835B		k12		DIN 844K
C413	HSS-E		NF	Z 4-6		λ30° γ12°	DIN 1835B	TiCN	k12		DIN 844K



C400	C413
	
6.00 - 20.00	6.00 - 20.00

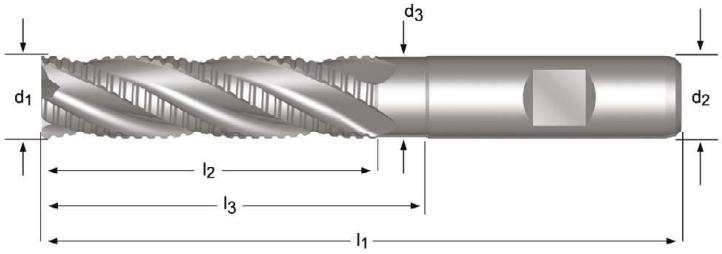
d_1 Ø mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C400	C413
6.00	6	13	57	4	-	-	C4006.0	C4136.0
8.00	10	19	69	4	-	-	C4008.0	C4138.0
10.00	10	22	72	4	-	-	C40010.0	C41310.0
12.00	12	26	83	4	-	-	C40012.0	C41312.0
14.00	12	26	83	4	37.5	11.5	C40014.0	C41314.0
16.00	16	32	92	4	43.5	15.5	C40016.0	C41316.0
18.00	16	32	92	4	43.5	15.5	C40018.0	C41318.0
20.00	20	38	104	4	53.5	19.5	C40020.0	C41320.0

C403

- Roughing End Mill
- Fresas desbaste
- Fresa de Desbaste
- Fraises d'ébauche

C403															
	■	1.2	1.3	6.2	6.3										
	•	1.1	1.4	2.1	3.1	3.2	3.3	3.4	4.1	4.2	5.1	5.2	6.1	7.2	7.3	8.1

C403	HSS-E		NF	Z 4-6		λ 30° γ 12°	DIN 1835B		k12		DIN 844L



C403

10.00 - 50.00

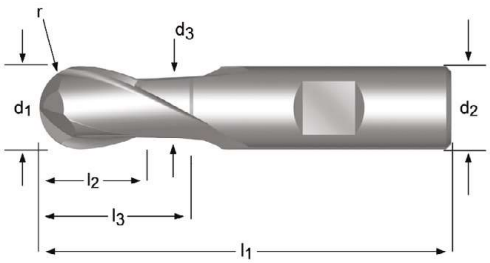
d_1 Ø mm	d_2 Øh_6 mm	l_2 mm	l_1 mm	z	l_3 mm	d_3 Ø mm	C403
10.00	10	45	95	4	-	-	C40310.0
12.00	12	53	110	4	-	-	C40312.0
14.00	12	53	110	4	64.5	11.5	C40314.0
16.00	16	63	123	4	74.5	15.5	C40316.0
18.00	16	63	123	4	74.5	15.5	C40318.0
20.00	20	75	141	4	90.5	19.5	C40320.0
30.00	25	90	166	5	109.5	24.5	C40330.0
32.00	32	106	186	6	125.5	31.0	C40332.0
36.00	32	106	186	6	125.5	31.5	C40336.0
40.00	40	125	217	6	146.5	39.0	C40340.0
45.00	40	125	217	6	146.5	39.5	C40345.0
50.00	50	150	252	6	171.5	48.0	C40350.0

C500

- Ball-Nosed End Mill
- Fresas con punta esferica
- Fresa Topo Esférico
- Fraises de finition bout hémisphérique

C500	■	1.1	1.2	4.1	5.1	6.1	6.2	6.3						
	•	1.3	1.4	2.1	3.1	3.2	3.3	3.4	4.2	5.2	7.1	7.2	7.3	8.1

C500	HSS-E		N	Z 2		λ 30° γ 12°	DIN 1835B		e8		DIN 327D



C500

2.00 - 25.00

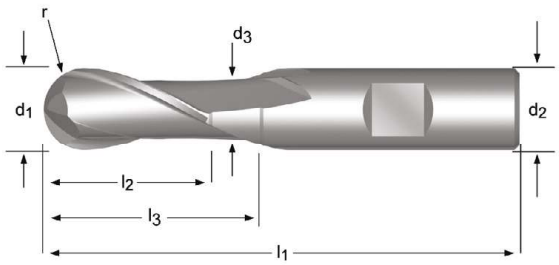
d1 Ø mm	r ±0.05 mm	d2 Øh6 mm	l2 mm	l1 mm	z	l3 mm	d3 Ø mm	C500
2.00	1.00	6	4	48	2	-	-	C5002.0
3.00	1.50	6	5	49	2	-	-	C5003.0
4.00	2.00	6	7	51	2	-	-	C5004.0
5.00	2.50	6	8	52	2	-	-	C5005.0
6.00	3.00	6	8	52	2	-	-	C5006.0
7.00	3.50	10	10	60	2	-	-	C5007.0
8.00	4.00	10	11	61	2	-	-	C5008.0
9.00	4.50	10	11	61	2	-	-	C5009.0
10.00	5.00	10	13	63	2	-	-	C50010.0
12.00	6.00	12	16	73	2	-	-	C50012.0
14.00	7.00	12	16	73	2	27.5	11.5	C50014.0
15.00	7.50	12	16	73	2	27.5	11.5	C50015.0
16.00	8.00	16	19	79	2	30.5	15.5	C50016.0
18.00	9.00	16	19	79	2	30.5	15.5	C50018.0
20.00	10.00	20	22	88	2	37.5	19.5	C50020.0
25.00	12.50	25	26	102	2	45.5	24.5	C50025.0

C505

- Ball-Nosed End Mill
- Fresas con punta esferica
- Fresa Topo Esférico
- Fraises de finition bout hémisphérique

C505														
	■	1.1	1.2	4.1	5.1	6.1	6.2	6.3						
	•	1.3	1.4	2.1	3.1	3.2	3.3	3.4	4.2	5.2	7.1	7.2	7.3	8.1

C505	HSS-E		N	Z 2		λ 30° γ 12°	DIN 1835B		e8		DIN 844K



C505

3.00 - 30.00

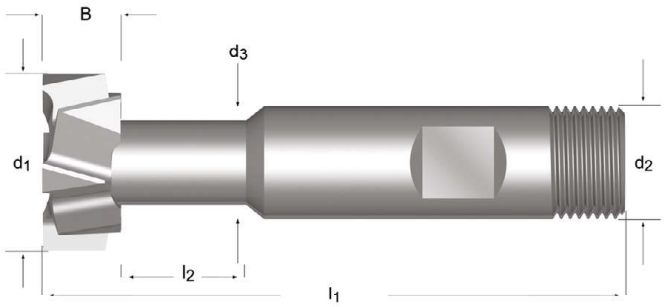
d1 Ø mm	r ±0.05 mm	d2 Øh6 mm	l2 mm	l1 mm	z	l3 mm	d3 Ø mm	C505
3.00	1.50	6	8	52	2	-	-	C5053.0
4.00	2.00	6	11	55	2	-	-	C5054.0
5.00	2.50	6	13	57	2	-	-	C5055.0
6.00	3.00	6	13	57	2	-	-	C5056.0
8.00	4.00	10	19	69	2	-	-	C5058.0
10.00	5.00	10	22	72	2	-	-	C50510.0
12.00	6.00	12	26	83	2	-	-	C50512.0
14.00	7.00	12	26	83	2	37.5	11.5	C50514.0
16.00	8.00	16	32	92	2	43.5	15.5	C50516.0
20.00	10.00	20	38	104	2	53.5	19.5	C50520.0
22.00	11.00	20	38	104	2	53.5	19.5	C50522.0
25.00	12.50	25	45	121	2	64.5	24.5	C50525.0
28.00	14.00	25	45	121	2	64.5	24.5	C50528.0
30.00	15.00	25	45	121	2	64.5	24.5	C50530.0

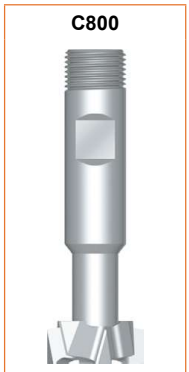
C800

- T-slot Cutter
- Fresas de ranurar en “T”
- Fresa p/ Abrir Rasgos T
- Fraises pour rainures en T

C800 ▪ 1.1 1.2 1.3 1.4 1.5 1.6 2.1 2.2 2.3 3.1 3.2 3.3 3.4 4.1 4.2 4.3 5.1 5.2 5.3 6.1 6.2 6.3 6.4 7.1 7.2 7.3 7.4 8.1 10.1

C800 | HSS-E | N | Z 6-8 | λ 15° γ 10° | DIN1835 D B | d11 | DIN 851





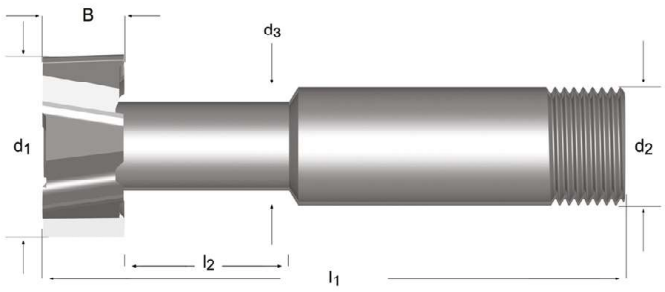
B mm	d_1 Ø mm	T DIN650	d_3 Ø mm	l_2 mm	l_1 mm	d_2 Øh_6 mm	z	C800
4.0	11.00	5	4	6.5	53.5	10	6	C80011.0X5.0
6.0	12.50	6	5	9	57.0	10	6	C80012.5X6.0
8.0	16.00	8	7	12	62.0	10	6	C80016.0X8.0
8.0	18.00	10	8	15	70.0	12	6	C80018.0X10.0
9.0	21.00	12	10	18	74.0	12	8	C80021.0X12.0
11.0	25.00	14	12	20	82.0	16	8	C80025.0X14.0
14.0	32.00	18	15	26	90.0	16	8	C80032.0X18.0
18.0	40.00	22	19	27	108.0	25	8	C80040.0X22.0
22.0	50.00	28	25	34	124.0	32	8	C80050.0X28.0

C810

- T-slot Cutter
- Fresas de ranurar en “T”
- Fresa p/ Abrir Rasgos T
- Fraises pour rainures en T

C810																		
	■	1.1	1.2	1.3	1.4	2.1	3.1	3.2	3.3	3.4	4.1	5.1	6.1	6.2	6.3	6.4	7.1	7.2	7.3
	•	1.5	1.6	2.2	2.3	4.2	4.3	5.2	5.3	7.4	8.1	10.1							

C810	HSS		N	Z 6-8		λ 12° γ 10°	DIN 1835D		d11		DORMER



C810

12.50 - 40.00

B mm	d_1 Ø mm	T DIN650	d_3 Ø mm	l_2 mm	l_1 mm	d_2 Ø0,-0.025 mm	z	C810
6.00	12.50	6.0	5.00	11	57.0	10.0	6	C8106.0
8.00	16.00	8.0	7.00	13	61.0	10.0	6	C8108.0
8.00	18.00	10.0	8.00	17	65.0	12.0	6	C81010.0
9.00	21.00	12.0	10.00	20	69.0	12.0	6	C81012.0
11.00	25.00	14.0	12.00	23	79.0	16.0	6	C81014.0
12.00	28.00	16.0	13.00	23	76.0	16.0	6	C81016.0
14.00	32.00	18.0	15.00	27	98.0	25.0	8	C81018.0
16.00	36.00	20.0	17.00	30	100.0	25.0	8	C81020.0
18.00	40.00	22.0	19.00	33	108.0	25.0	8	C81022.0

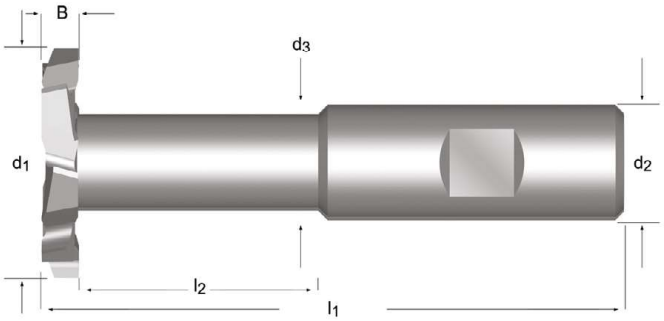
[9] Standard - BS 122/4 / Estándar - BS 122/4 / Norma - BS 122/4 / Standard - BS 122/4

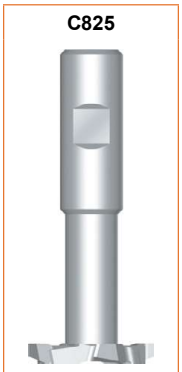
C825

- T-slot Cutter
- Fresas de ranurar en “T”
- Fresa p/ Abrir Rasgos T
- Fraises pour rainures en T

C825 ▪ 1.1 1.2 1.3 1.4 1.5 1.6 2.1 2.2 2.3 3.1 3.2 3.3 3.4 4.1 4.2 4.3 5.1 5.2 5.3 6.1 6.2 6.3 6.4 7.1 7.2 7.3 7.4 8.1 10.1

C825 | HSS-E | N | Z 8-12 | λ15° γ15° | DIN 1835B | js16 | DORMER





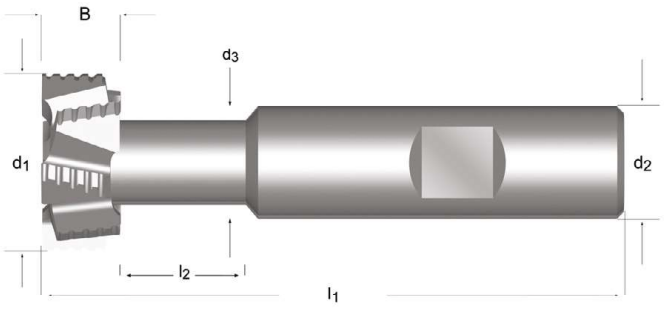
B mm	d_1 Ø mm	Ch mm	d_3 Ø mm	l_2 mm	l_1 mm	d_2 Øh$_6$ mm	z	C825
3	40	0.15	19.2	46	100	20	8	C8253.0X40.0
4	40	0.15	19.2	45	100	20	8	C8254.0X40.0
5	40	0.15	19.2	44	100	20	8	C8255.0X40.0
6	40	0.15	19.2	43	100	20	8	C8256.0X40.0
8	40	0.15	19.2	41	100	20	8	C8258.0X40.0
10	40	0.15	19.2	39	100	20	8	C82510.0X40.0
6	63	0.15	24.2	67	130	25	12	C8256.0X63.0
8	63	0.15	24.2	65	130	25	12	C8258.0X63.0
10	63	0.15	24.2	63	130	25	12	C82510.0X63.0
12	63	0.15	24.2	61	130	25	12	C82512.0X63.0
14	63	0.15	24.2	59	130	25	12	C82514.0X63.0
16	63	0.15	24.2	57	130	25	12	C82516.0X63.0

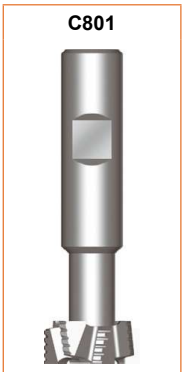
C801

- T-slot Cutter
- Fresas de ranurar en “T”
- Fresa p/ Abrir Rasgos T
- Fraises pour rainures en T

C801 ▪ 1.1 1.2 1.3 1.4 1.5 1.6 2.1 2.2 2.3 3.1 3.2 3.3 3.4 4.1 4.2 4.3 5.1 5.2 5.3 6.1 6.2 6.3 6.4 7.1 7.2 7.3 7.4 8.1 10.1

C801 HSS-E | NF | Z 6-8 | λ 12° γ 10° | DIN 1835B | d11 | DIN 851





B mm	d_1 Ø mm	T DIN650	d_3 Ø mm	l_2 mm	l_1 mm	d_2 Øh_6 mm	z	C801
8.0	16.0	8	7	10	62	10	6	C80116.0X8.0
8.0	18.0	10	8	13	70	12	6	C80118.0X10.0
9.0	21.0	12	10	16	74	12	6	C80121.0X12.0
11.0	25.0	14	12	17	82	16	8	C80125.0X14.0
14.0	32.0	18	15	22	90	16	8	C80132.0X18.0

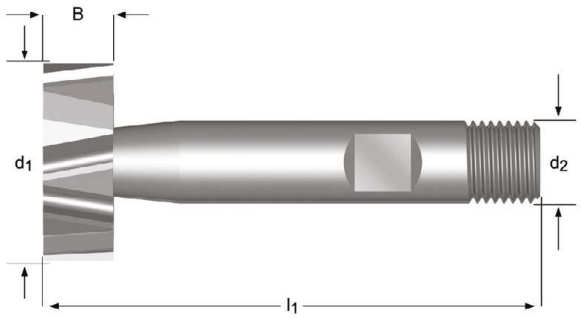
DORMER

C822

- Woodruff Cutter
- Fresas para ranurados tipo Woodruff
- Fresa p/ Chavetas Meia Lua
- Fraises Woodruff

C822 ▪ 1.1 1.2 1.3 1.4 1.5 1.6 2.1 2.2 2.3 3.1 3.2 3.3 3.4 4.1 4.2 4.3 5.1 5.2 5.3 6.1 6.2 6.3 6.4 7.1 7.2 7.3 7.4 8.1 10.1

C822 | HSS-E | N | Z 6-12 | λ10° γ10° | DIN1835 D B | h11 | DIN 850



4.50 - 45.50

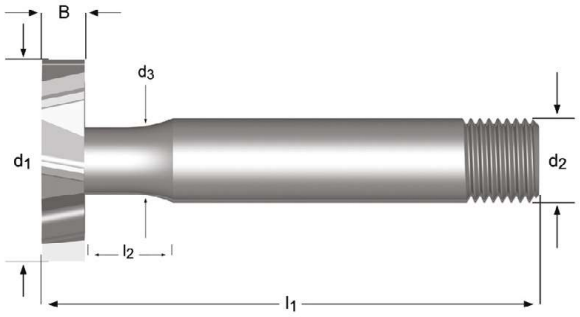
B mm	d_1 Ø mm	l_1 mm	d_2 Øh_6 mm	z	C822
1.0	4.50	50	6	6	C8224.5X1.0
1.5	7.50	50	6	6	C8227.5X1.5
2.0	7.50	50	6	6	C8227.5X2.0
2.0	10.50	50	6	8	C82210.5X2.0
2.5	10.50	50	6	8	C82210.5X2.5
3.0	10.50	50	6	8	C82210.5X3.0
3.0	13.50	56	10	8	C82213.5X3.0
4.0	13.50	56	10	8	C82213.5X4.0
3.0	16.50	56	10	8	C82216.5X3.0
4.0	16.50	56	10	8	C82216.5X4.0
5.0	16.50	56	10	8	C82216.5X5.0
3.0	19.50	63	10	10	C82219.5X3.0
4.0	19.50	63	10	10	C82219.5X4.0
5.0	19.50	63	10	10	C82219.5X5.0
5.0	22.50	63	10	10	C82222.5X5.0
6.0	22.50	63	10	10	C82222.5X6.0
8.0	22.50	63	10	10	C82222.5X8.0
6.0	25.50	63	10	12	C82225.5X6.0
6.0	28.50	63	10	12	C82228.5X6.0
8.0	28.50	63	10	12	C82228.5X8.0
10.0	28.50	71	12	12	C82228.5X10.0
8.0	32.50	71	12	12	C82232.5X8.0
10.0	32.50	71	12	12	C82232.5X10.0
10.0	45.50	71	12	12	C82245.5X10.0

C820

- Woodruff Cutter
- Fresas para ranurados tipo Woodruff
- Fresa p/ Chavetas Meia Lua
- Fraises Woodruff

C820																		
	■	1.1	1.2	1.3	1.4	2.1	2.2	3.1	3.2	3.3	3.4	4.1	5.1	6.1	6.2	6.3	7.1	7.2	7.3
	•	1.5	1.6	2.3	4.2	4.3	5.2	5.3	6.4	7.4	8.1	10.1							

C820	HSS		N	Z 6-12		λ 12° γ 10°	DIN 1835D				DORMER



C820

10.50 - 45.50

Nr.	B Inch	B mm	d_1 Ø Inch	d_1 Ø mm	d_3 Ø mm	l_2 mm	l_1 mm	d_2 Ø0,-0.025 Inch	d_2 Ø0,-0.025 mm	z	C820
		2.00		10.50	3.90	10	57.0		12.0	6	C82010.5X2.0
		2.50		10.50	3.90	10	57.0		12.0	6	C82010.5X2.5
		3.00		10.50	4.20	10	57.0		12.0	6	C82010.5X3.0
204	1/16	1.59	1/2	12.70	3.30	10	57.0	1/2	12.7	6	C820204 [9]
404	1/8	3.18	1/2	12.70	4.85	10	57.0	1/2	12.7	6	C820404 [9]
		2.00		13.50	4.00	10	57.0		12.0	6	C82013.5X2.0
		2.50		13.50	4.00	10	57.0		12.0	6	C82013.5X2.5
		3.00		13.50	5.00	10	57.0		12.0	6	C82013.5X3.0
		4.00		13.50	5.00	10	57.0		12.0	6	C82013.5X4.0
405	1/8	3.18	5/8	15.88	5.65	10	57.0	1/2	12.7	6	C820405 [9]
505	5/32	3.97	5/8	15.88	6.35	10	57.0	1/2	12.7	6	C820505 [9]
		2.50		16.50	4.00	10	57.0		12.0	6	C82016.5X2.5
		3.00		16.50	5.00	10	57.0		12.0	6	C82016.5X3.0
		4.00		16.50	5.00	10	57.0		12.0	6	C82016.5X4.0
		5.00		16.50	5.60	10	57.0		12.0	6	C82016.5X5.0
406	1/8	3.18	3/4	19.05	5.50	10	57.0	1/2	12.7	6	C820406 [9]
506	5/32	3.97	3/4	19.05	6.35	10	57.0	1/2	12.7	6	C820506 [9]
606	3/16	4.76	3/4	19.05	7.15	10	57.0	1/2	12.7	6	C820606 [9]
		3.00		19.50	5.60	10	57.0		12.0	6	C82019.5X3.0
		4.00		19.50	5.60	10	57.0		12.0	6	C82019.5X4.0
		5.00		19.50	6.00	10	57.0		12.0	6	C82019.5X5.0
507	5/32	3.97	7/8	22.23	6.35	10	63.5	1/2	12.7	8	C820507 [9]
607	3/16	4.76	7/8	22.23	7.15	10	63.5	1/2	12.7	8	C820607 [9]
807	1/4	6.35	7/8	22.23	8.75	10	63.5	1/2	12.0	8	C820807 [9]
		4.00		22.50	5.60	10	63.5		12.0	8	C82022.5X4.0
		5.00		22.50	6.00	10	63.5		12.0	8	C82022.5X5.0
		6.00		22.50	6.50	10	63.5		12.0	8	C82022.5X6.0
608	3/16	4.76	1“	25.40	7.15	10	70.0	1/2	12.7	8	C820608 [9]
808	1/4	6.35	1“	25.40	8.75	10	70.0	1/2	12.7	8	C820808 [9]
		5.00		25.50	7.50	10	70.0		12.0	8	C82025.5X5.0
		6.00		25.50	7.50	10	70.0		12.0	8	C82025.5X6.0
		8.00		25.50	8.00	10	70.0		12.0	8	C82025.5X8.0
		5.00		28.50	8.00	12	70.0		12.0	8	C82028.5X5.0
		6.00		28.50	8.50	12	70.0		12.0	8	C82028.5X6.0
		8.00		28.50	9.00	12	70.0		12.0	8	C82028.5X8.0
610	3/16	4.76	1.1/4	31.75	7.95	12	70.0	1/2	12.7	10	C820610 [9]
810	1/4	6.35	1.1/4	31.75	9.50	12	70.0	1/2	12.7	10	C820810 [9]

[9] Standard - BS 122/4 / Norma - BS 122/4 / Norma - BS 122/4 / Standard - BS 122/4

DORMER

Nr.	B Inch	B mm	d_1 Ø Inch	d_1 Ø mm	d_3 Ø mm	l_2 mm	l_1 mm	d_2 Ø0,-0.025 Inch	d_2 Ø0,-0.025 mm	z	C820
1210	3/8	9.53	1.1/4	31.75	11.95	12	70.0	1/2	12.7	10	C8201210 [9]
		5.00		32.50	8.00	12	70.0		12.0	10	C82032.5X5.0 [9]
		6.00		32.50	8.50	12	70.0		12.0	10	C82032.5X6.0
		8.00		32.50	9.00	12	70.0		12.0	10	C82032.5X8.0
811	1/4	6.35	1.3/8	34.93	11.10	20	76.0	1/2	12.7	10	C820811 [9]
1211	3/8	9.53	1.3/8	34.93	11.95	20	76.0	1/2	12.7	10	C8201211 [9]
		6.00		35.50	9.50	20	76.0		12.0	10	C82035.5X6.0
		8.00		35.50	11.50	20	76.0		12.0	10	C82035.5X8.0
812	1/4	6.35	1.1/2	38.10	11.10	20	76.0	1/2	12.7	10	C820812 [9]
1212	3/8	9.53	1.1/2	38.10	11.95	20	76.0	1/2	12.7	10	C8201212 [9]
		8.00		38.50	11.50	20	76.0		12.0	10	C82038.5X8.0
		10.00		38.50	11.50	20	76.0		12.0	10	C82038.5X10.0
		10.00		45.50	11.50	20	76.0		12.0	12	C82045.5X10.0

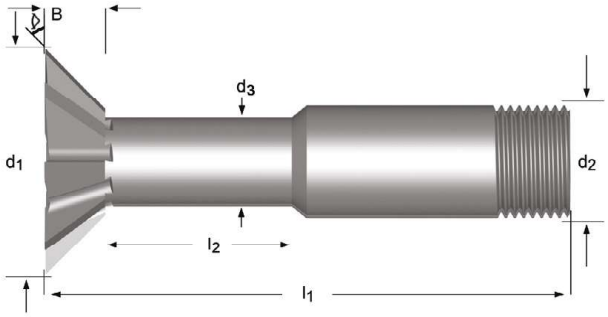
[9] Standard - BS 122/4 / Norma - BS 122/4 / Norma - BS 122/4 / Standard - BS 122/4

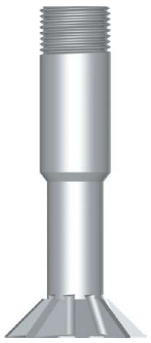
C837

- Dovetail Cutter
- Fresas de cola de milano
- Fresa Rabo de Andorinha
- Fraises coniques

C837																		
	■	1.1	1.2	1.3	1.4	2.1	3.1	3.2	3.3	3.4	4.1	5.1	6.1	6.2	6.3	7.1	7.2	7.3
	•	1.5	1.6	2.2	2.3	4.2	4.3	5.2	5.3	6.4	7.4	8.1						

C837	HSS		N	Z 6-8		λ 0° γ 0°	DIN 1835D				DORMER





▷	B mm	d1 Ø Inch	d1 Ø mm	d3 Ø mm	l2 mm	l1 mm	d2 Ø0,-0.025 Inch	d2 Ø0,-0.025 mm	z	C837
45°	3.0		13.00	4.75	16.5	63.5		12.00	6	C83713.0
45°	4.0	5/8	15.88	6.35	17.5	66.5	1/2	12.70	6	C8375/8 [9]
45°	4.0		16.00	6.35	17.5	66.5		12.00	6	C83716.0
45°	5.5		19.00	6.35	16.0	66.5		12.00	6	C83719.0
45°	5.5	3/4	19.05	6.35	16.0	66.5	1/2	12.70	6	C8373/4 [9]
45°	6.5		22.00	7.15	16.0	68.5		12.00	6	C83722.0
45°	6.5	7/8	22.23	7.15	16.0	68.5	1/2	12.70	6	C8377/8 [9]
45°	7.5		25.00	7.95	16.5	70.0		12.00	6	C83725.0
45°	8.0	1“	25.40	7.95	16.0	70.0	1/2	12.70	6	C8371
45°	8.5		28.00	9.55	17.0	71.5		16.00	6	C83728.0
45°	10.5		38.00	12.70	16.0	78.5		25.00	8	C83738.0

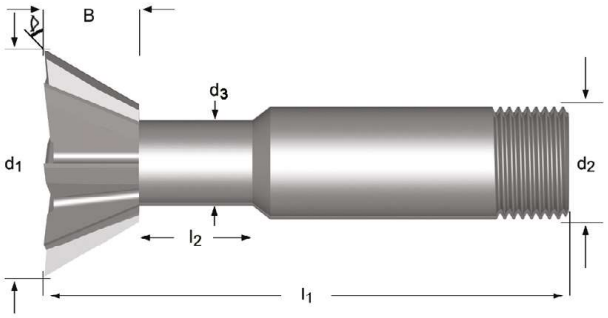
[9] Standard - BS 122/4 / Norma - BS 122/4 / Norma - BS 122/4 / Standard - BS 122/4

C835

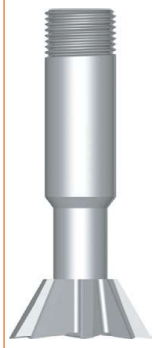
- Dovetail Cutter
- Fresas de cola de milano
- Fresa Rabo de Andorinha
- Fraises coniques

C835	■	1.1	1.2	1.3	1.4	2.1	3.1	3.2	3.3	3.4	4.1	5.1	6.1	6.2	6.3	7.1	7.2	7.3
	•	1.5	1.6	2.2	2.3	4.2	4.3	5.2	5.3	6.4	7.4	8.1						

C835	HSS		N	Z 6-8		λ 0° γ 0°	DIN 1835D				DORMER



C835



1/2 - 1.1/2

▷	B mm	d_1 Ø Inch	d_1 Ø mm	d_3 Ø mm	l_2 mm	l_1 mm	d_2 Ø0,-0.025 Inch	d_2 Ø0,-0.025 mm	z	C835
60°	4.0	1/2	12.70	7.15	16.5	63.5	1/2	12.70	6	C8351/2 [9]
60°	4.0		13.00	7.15	16.5	63.5		12.00	6	C83513.0
60°	5.5	5/8	15.88	7.55	18.0	66.5	1/2	12.70	6	C8355/8 [9]
60°	5.5		16.00	7.55	18.0	66.5		12.00	6	C83516.0
60°	7.0		19.00	8.35	17.5	67.5		12.00	6	C83519.0
60°	7.0	3/4	19.05	8.35	17.5	67.5	1/2	12.70	6	C8353/4 [9]
60°	9.5		22.00	8.75	15.0	67.5		12.00	6	C83522.0
60°	9.5	7/8	22.23	8.75	15.0	67.5	1/2	12.70	6	C8357/8 [9]
60°	12.0		25.00	8.75	15.0	70.0		12.00	6	C83525.0
60°	12.0	1“	25.40	8.75	15.0	70.0	1/2	12.70	6	C8351 [9]
60°	12.5		28.00	11.10	15.5	73.0		16.00	6	C83528.0
60°	12.5	1.1/8	28.58	11.10	15.5	73.0	5/8	15.88	6	C8351.1/8 [9]
60°	13.5		32.00	12.70	16.0	74.5		16.00	8	C83532.0
60°	13.5	1.1/4	31.75	12.70	16.0	74.5	5/8	15.88	8	C8351.1/4 [9]
60°	14.5	1.3/8	34.93	12.70	16.0	82.5	1“	25.40	8	C8351.3/8 [9]
60°	14.5		35.00	12.70	16.0	82.5		25.00	8	C83535.0
60°	16.0		38.00	17.45	16.0	84.0		25.00	8	C83538.0
60°	16.0	1.1/2	38.10	17.45	16.0	84.0	1“	25.40	8	C8351.1/2 [9]

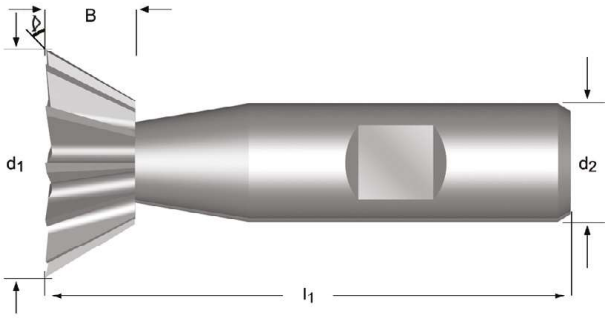
[9] Standard - BS 122/4 / Norma - BS 122/4 / Norma - BS 122/4 / Standard - BS 122/4

C830

- Dovetail Cutter
- Fresas de cola de milano
- Fresa Rabo de Andorinha
- Fraises coniques

C830	▪	1.1	1.2	1.3	1.4	1.5	1.6	2.1	2.2	2.3	3.1	3.2	3.3	3.4	4.1	4.2	4.3	5.1	5.2	5.3	6.1
		6.2	6.3	6.4	7.1	7.2	7.3	7.4	8.1	10.1											

C830	HSS-E		N	Z 10-12		λ 0° γ 0°	DIN 1835B		js16		DIN 1833C



C830

12.00 - 32.00

▷	B mm	d_1 Ø mm	l_1 mm	d_2 Øh_6 mm	z	C830
45°	3.5	12.0	54	10	10	C83012.0X45
45°	4.0	16.0	60	12	10	C83016.0X45
45°	5.0	20.0	63	12	10	C83020.0X45
45°	6.3	25.0	67	12	10	C83025.0X45
45°	8.0	32.0	71	16	12	C83032.0X45
60°	5.0	12.0	54	10	10	C83012.0X60
60°	6.3	16.0	60	12	10	C83016.0X60
60°	8.0	20.0	63	12	10	C83020.0X60
60°	10.0	25.0	67	12	10	C83025.0X60
60°	12.5	32.0	71	16	12	C83032.0X60

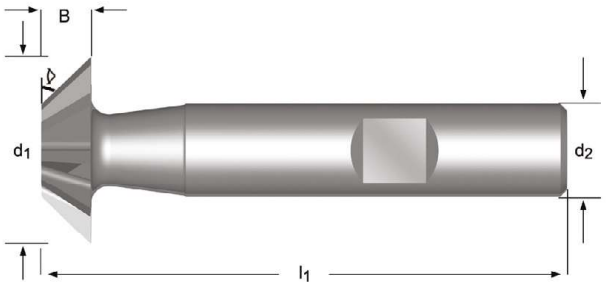
DORMER

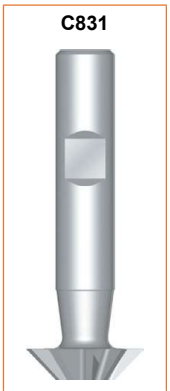
C831

- Inverse Dovetail Cutters
- Fresa para cola de milano invertida
- Fresa Cauda de Andorinha Invertida
- Fraises coniques cône direct

C831 ▪ 1.1 1.2 1.3 1.4 1.5 1.6 2.1 2.2 2.3 3.1 3.2 3.3 3.4 4.1 4.2 4.3 5.1 5.2 5.3 6.1 6.2 6.3 6.4 7.1 7.2 7.3 7.4 8.1 10.1

C831 | HSS-E | N | Z 10-12 | λ0° γ0° | DIN 1835B | js16 | DIN 1833D





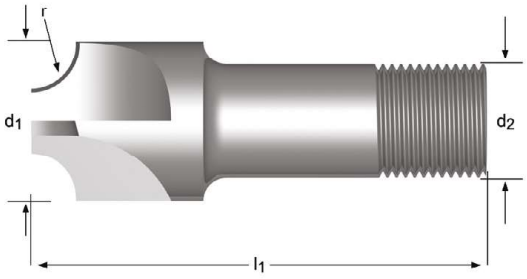
▷	B mm	d_1 Ø mm	l_1 mm	d_2 Øh_6 mm	z	C831
45°	3.5	12.0	54	10	10	C83112.0X45
45°	4.0	16.0	60	12	10	C83116.0X45
45°	5.0	20.0	63	12	10	C83120.0X45
45°	6.3	25.0	67	12	10	C83125.0X45
45°	8.0	32.0	71	16	12	C83132.0X45
60°	5.0	12.0	54	10	10	C83112.0X60
60°	6.3	16.0	60	12	10	C83116.0X60
60°	8.0	20.0	63	12	10	C83120.0X60
60°	10.0	25.0	67	12	10	C83125.0X60
60°	12.5	32.0	71	16	12	C83132.0X60

C710

- Corner Rounding Cutter
- Fresas frontales de perfil cóncavo
- Fresa p/ Arredondar Arestas
- Fraises concaves

C710																				
	■	1.1	1.2	1.3	1.4	2.1	2.2	3.1	3.2	3.3	3.4	4.1	4.2	5.1	5.2	6.1	6.2	6.3	7.1	7.2	7.3
	•	1.5	1.6	2.3	4.3	5.3	6.4	7.4	10.1												

C710	HSS		N	Z 4		λ 0° γ 0°					BS 122/4



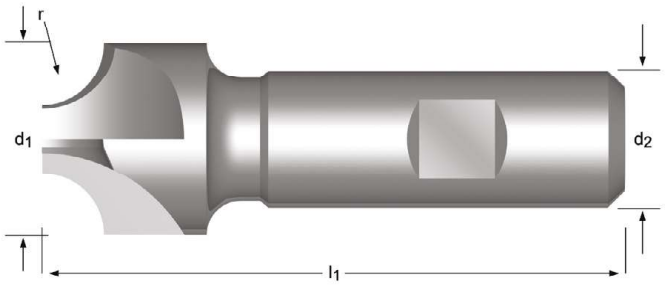
r Inch	d_1 Ø Inch	d_2 Øh_8 Inch	d_2 Ø mm	l_1 mm	z	C710
1/16	3/8	3/8	9.53	60.5	4	C7101/16
1/8	1/2	1/2	12.70	60.5	4	C7101/8
5/32	9/16	1/2	12.70	60.5	4	C7105/32
3/16	5/8	5/8	15.88	60.5	4	C7103/16
1/4	7/8	5/8	15.88	63.5	4	C7101/4
3/8	1.1/16	1“	25.40	76.0	4	C7103/8
1/2	1.3/8	1“	25.40	82.5	4	C7101/2

C700

- Corner Rounding Cutter
- Fresas frontales de perfil cóncavo
- Fresa p/ Arredondar Aristas
- Fraises concaves

C700 ▪ 1.1 1.2 1.3 1.4 1.5 1.6 2.1 2.2 2.3 3.1 3.2 3.3 3.4 4.1 4.2 4.3 5.1 5.2 5.3 6.1 6.2 6.3 6.4 7.1 7.2 7.3 7.4 10.1

C700 | HSS-E | N | Z 4-6 | λ 0° γ 0° | DIN 1835B | DORMER



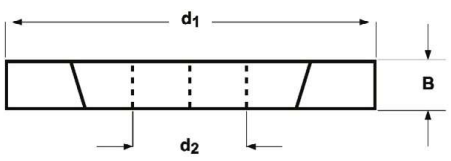
r mm	d_1 Ø mm	d_2 Øh_6 mm	l_1 mm	z	C700
1.00	10	10	60	4	C7001.0
1.50	10	10	60	4	C7001.5
2.00	10	10	60	4	C7002.0
2.50	10	10	60	4	C7002.5
3.00	12	12	60	4	C7003.0
3.50	12	12	60	4	C7003.5
4.00	15	12	60	4	C7004.0
5.00	18	16	70	4	C7005.0
6.00	21	16	70	4	C7006.0
7.00	24	16	70	4	C7007.0
8.00	24	16	70	4	C7008.0
9.00	28	20	85	4	C7009.0
10.00	28	20	85	4	C70010.0
12.00	35	20	100	4	C70012.0
12.50	35	20	100	4	C70012.5
14.00	42	25	100	4	C70014.0
15.00	48	25	105	5	C70015.0
16.00	48	25	105	5	C70016.0
20.00	60	32	115	6	C70020.0

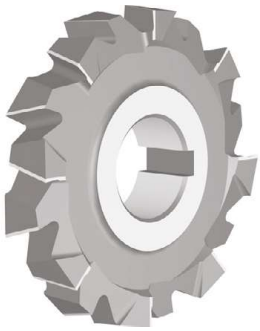
D200
D763

- Side and Face Milling Cutter
- Fresa para ranurar
- Fresa de Facejamento Lateral
- Fraise 3 tailles

D200; D763 ▪ 1.1 1.2 1.3 1.4 1.5 1.6 2.1 2.2 2.3 3.1 3.2 3.3 3.4 4.1 4.2 4.3 5.1 5.2 5.3 6.1 6.2 6.3 6.4 7.1 7.2 7.3 7.4 8.1

D200	HSS-E			Z 16-30		λ15° γ10°			js16		DIN 885A
D763	HSS-E			Z 28-44		λ15° γ10°			js16		DIN 885A





D200	D763
	
50.00 - 125.00	63.00 - 125.00

d_1 Ø mm	B mm	d_2 Ø mm	z	D200	D763
50.00	4.0	16	16	D20050.0X4.0	
50.00	5.0	16	16	D20050.0X5.0	
63.00	1.6	22	32		D76363.0X1.6
63.00	2.0	22	32		D76363.0X2.0
63.00	2.5	22	32		D76363.0X2.5
63.00	3.0	22	28		D76363.0X3.0
63.00	3.5	22	28		D76363.0X3.5
63.00	6.0	22	18	D20063.0X6.0	
63.00	8.0	22	18	D20063.0X8.0	
80.00	10.0	27	18	D20080.0X10.0	
80.00	2.0	27	36		D76380.0X2.0
80.00	2.5	27	36		D76380.0X2.5
80.00	3.0	27	32		D76380.0X3.0
80.00	3.5	27	32		D76380.0X3.5
80.00	6.0	27	20	D20080.0X6.0	
80.00	8.0	27	20	D20080.0X8.0	
100.00	10.0	32	22	D200100.0X10.0	
100.00	12.0	32	20	D200100.0X12.0	
100.00	14.0	32	20	D200100.0X14.0	
100.00	16.0	32	20	D200100.0X16.0	
100.00	2.0	32	44		D763100.0X2.0
100.00	3.0	32	40		D763100.0X3.0
100.00	8.0	32	22	D200100.0X8.0	
125.00	10.0	32	24	D200125.0X10.0	
125.00	12.0	32	22	D200125.0X12.0	
125.00	2.0	32	44		D763125.0X2.0
125.00	3.0	32	44		D763125.0X3.0

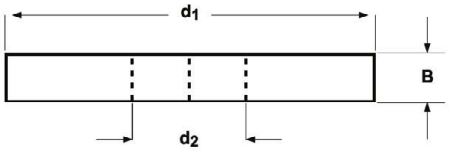
DORMER

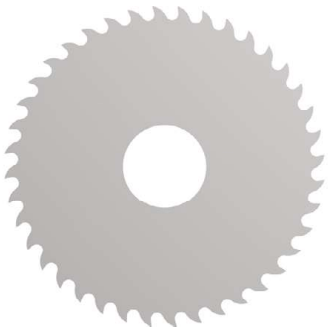
D745

- Metal slitting saw Coarse
- Sierras de ranurar o tronzar paso grueso
- Serras Circulares p/ Abertura de Rasgos
- Fraises scies

D745	■	1.1	1.2	1.3	1.4	3.1	3.2	3.3	6.1	6.2	6.3	7.1	7.2	7.3	8.1
	•	2.1	2.2												

D745	HSS			Z 28-100		γ15°					DIN 1838





D745

50.00 - 250.00

d_1 Ø mm	B mm	d_2 Ø mm	z	D745
50.00	0.5	13	48	D74550.0X.5
50.00	0.6	13	48	D74550.0X.6
50.00	0.8	13	40	D74550.0X.8
50.00	1.0	13	40	D74550.0X1.0
50.00	1.2	13	40	D74550.0X1.2
50.00	1.5	13	32	D74550.0X1.5
50.00	1.6	13	32	D74550.0X1.6
50.00	2.0	13	32	D74550.0X2.0
63.00	0.5	16	64	D74563.0X.5
63.00	0.6	16	48	D74563.0X.6
63.00	0.8	16	48	D74563.0X.8
63.00	1.0	16	48	D74563.0X1.0
63.00	1.2	16	40	D74563.0X1.2
63.00	1.5	16	40	D74563.0X1.5
63.00	1.6	16	40	D74563.0X1.6
63.00	2.0	16	40	D74563.0X2.0
80.00	1.0	22	48	D74580.0X1.0
80.00	1.2	22	48	D74580.0X1.2
80.00	1.5	22	48	D74580.0X1.5
80.00	1.6	22	48	D74580.0X1.6
80.00	2.0	22	40	D74580.0X2.0
80.00	2.5	22	40	D74580.0X2.5
80.00	3.0	22	40	D74580.0X3.0
100.00	1.0	22	64	D745100.0X1.0
100.00	1.2	22	64	D745100.0X1.2
100.00	1.5	22	48	D745100.0X1.5
100.00	1.6	22	48	D745100.0X1.6
100.00	2.0	22	48	D745100.0X2.0
100.00	2.5	22	48	D745100.0X2.5
100.00	3.0	22	40	D745100.0X3.0
100.00	4.0	22	40	D745100.0X4.0
125.00	1.0	22	80	D745125.0X1.0
125.00	1.2	22	64	D745125.0X1.2
125.00	1.5	22	64	D745125.0X1.5
125.00	1.6	22	64	D745125.0X1.6
125.00	2.0	22	64	D745125.0X2.0
125.00	2.5	22	48	D745125.0X2.5
125.00	3.0	22	48	D745125.0X3.0
125.00	4.0	22	48	D745125.0X4.0

d_1 Ø mm	B mm	d_2 Ø mm	z	D745
160.00	1.6	32	80	D745160.0X1.6
160.00	2.0	32	64	D745160.0X2.0
160.00	2.5	32	64	D745160.0X2.5
160.00	3.0	32	64	D745160.0X3.0
160.00	4.0	32	48	D745160.0X4.0
200.00	1.6	32	80	D745200.0X1.6
200.00	2.0	32	80	D745200.0X2.0
200.00	2.5	32	80	D745200.0X2.5
200.00	3.0	32	64	D745200.0X3.0
200.00	4.0	32	64	D745200.0X4.0
250.00	2.0	32	100	D745250.0X2.0
250.00	2.5	32	80	D745250.0X2.5
250.00	3.0	32	80	D745250.0X3.0

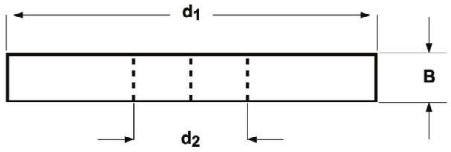
DORMER

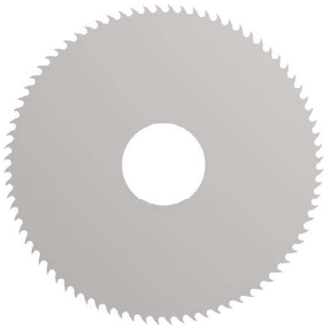
D747

- Metal slitting saw Fine
- Sierras de ranurar o tronzar paso fino
- Serras Circulares p/ Abertura de Rasgos
- Fraises scies

D747	1.1	1.2	1.3	1.4	3.1	3.2	3.3	6.1	6.2	6.3	7.1	7.2	7.3	8.1
•	2.1	2.2												

D747	HSS			Z 40-200		γ 5°					DIN 1837





D747

32.00 - 200.00

d1 Ø mm	B mm	d2 Ø mm	z	D747
32.00	0.3	8	80	D74732.0X.3
32.00	0.4	8	80	D74732.0X.4
32.00	0.5	8	80	D74732.0X.5
32.00	0.6	8	64	D74732.0X.6
32.00	0.8	8	64	D74732.0X.8
32.00	1.0	8	64	D74732.0X1.0
32.00	1.2	8	48	D74732.0X1.2
32.00	1.5	8	48	D74732.0X1.5
32.00	1.6	8	48	D74732.0X1.6
32.00	2.0	8	48	D74732.0X2.0
40.00	0.3	10	100	D74740.0X.3
40.00	0.4	10	100	D74740.0X.4
40.00	0.5	10	80	D74740.0X.5
40.00	0.6	10	80	D74740.0X.6
40.00	0.8	10	80	D74740.0X.8
40.00	1.0	10	64	D74740.0X1.0
40.00	1.2	10	64	D74740.0X1.2
40.00	1.5	10	64	D74740.0X1.5
40.00	1.6	10	64	D74740.0X1.6
40.00	2.0	10	48	D74740.0X2.0
50.00	0.3	13	128	D74750.0X.3
50.00	0.4	13	100	D74750.0X.4
50.00	0.5	13	100	D74750.0X.5
50.00	0.6	13	100	D74750.0X.6
50.00	0.8	13	80	D74750.0X.8
50.00	1.0	13	80	D74750.0X1.0
50.00	1.2	13	80	D74750.0X1.2
50.00	1.5	13	64	D74750.0X1.5
50.00	1.6	13	64	D74750.0X1.6
50.00	2.0	13	64	D74750.0X2.0
50.00	2.5	13	64	D74750.0X2.5
50.00	3.0	13	48	D74750.0X3.0
63.00	0.5	16	128	D74763.0X.5
63.00	0.6	16	100	D74763.0X.6
63.00	0.8	16	100	D74763.0X.8
63.00	1.0	16	100	D74763.0X1.0
63.00	1.2	16	80	D74763.0X1.2

d_1 Ø mm	B mm	d_2 Ø mm	z	D747
63.00	1.5	16	80	D74763.0X1.5
63.00	1.6	16	80	D74763.0X1.6
63.00	2.0	16	80	D74763.0X2.0
63.00	2.5	16	64	D74763.0X2.5
63.00	3.0	16	64	D74763.0X3.0
63.00	4.0	16	64	D74763.0X4.0
80.00	0.5	22	128	D74780.0X.5
80.00	0.6	22	128	D74780.0X.6
80.00	0.8	22	128	D74780.0X.8
80.00	1.0	22	100	D74780.0X1.0
80.00	1.2	22	100	D74780.0X1.2
80.00	1.5	22	100	D74780.0X1.5
80.00	1.6	22	100	D74780.0X1.6
80.00	2.0	22	80	D74780.0X2.0
80.00	2.5	22	80	D74780.0X2.5
80.00	3.0	22	80	D74780.0X3.0
80.00	4.0	22	64	D74780.0X4.0
100.00	0.5	22	160	D747100.0X.5
100.00	0.6	22	160	D747100.0X.6
100.00	0.8	22	128	D747100.0X.8
100.00	1.0	22	128	D747100.0X1.0
100.00	1.2	22	128	D747100.0X1.2
100.00	1.5	22	100	D747100.0X1.5
100.00	1.6	22	100	D747100.0X1.6
100.00	2.0	22	100	D747100.0X2.0
100.00	2.5	22	100	D747100.0X2.5
100.00	3.0	22	80	D747100.0X3.0
100.00	4.0	22	80	D747100.0X4.0
125.00	1.0	22	160	D747125.0X1.0
125.00	1.2	22	128	D747125.0X1.2
125.00	1.5	22	128	D747125.0X1.5
125.00	1.6	22	128	D747125.0X1.6
125.00	2.0	22	128	D747125.0X2.0
125.00	2.5	22	100	D747125.0X2.5
125.00	3.0	22	100	D747125.0X3.0
125.00	4.0	22	100	D747125.0X4.0
160.00	1.0	32	160	D747160.0X1.0
160.00	1.2	32	160	D747160.0X1.2
160.00	1.5	32	160	D747160.0X1.5
160.00	1.6	32	160	D747160.0X1.6
160.00	2.0	32	128	D747160.0X2.0
160.00	2.5	32	128	D747160.0X2.5
160.00	3.0	32	128	D747160.0X3.0
160.00	4.0	32	100	D747160.0X4.0
160.00	5.0	32	100	D747160.0X5.0
200.00	1.0	32	200	D747200.0X1.0
200.00	1.2	32	200	D747200.0X1.2
200.00	2.0	32	160	D747200.0X2.0
200.00	3.0	32	128	D747200.0X3.0

D752
D753

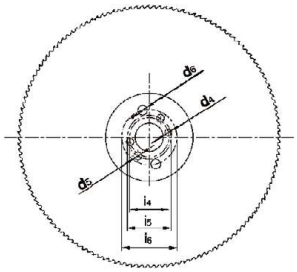
- Metal slitting saw Coarse
- Sierras de ranurar o tronzar paso grueso
- Serras Circulares p/ Abertura de Rasgos
- Fraises scies

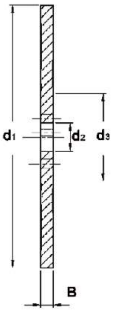
D752; D753

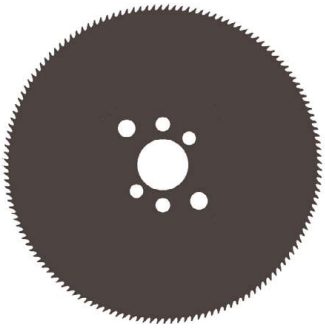
▪ 1.1 1.2 1.3 1.4 3.1 3.2 3.3 6.1 6.2 6.3 7.1 7.2 7.3 8.1

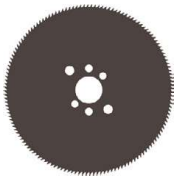
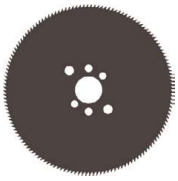
• 2.1 2.2

D752	HSS			Z 80-180		γ 18°		 ST	DORMER
D753	HSS			Z 100-140		γ 18°		 ST	DORMER







D752	D753
 200.00 - 350.00	 250.00 - 350.00

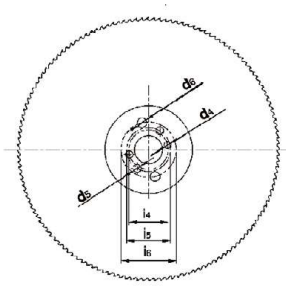
d_1 Ø mm	B mm	d_2 Ø mm	z	P mm	d_3 Ø mm	d_4 Ø mm	i_4 mm	d_5 Ø mm	i_5 mm	d_6 Ø mm	i_6 mm	D752	D753
250	2.0	32	100	8	100	8	45	9	50	11	63		D753250.0X2.0
250	2.0	32	128	6	100	8	45	9	50	11	63	D752250.0X2.0X128	
275	2.5	32	110	8	100	8	45	9	50	11	63	D752275.0X2.5X110	
300	2.5	32	120	8	100	8	45	9	50	11	63		D753300.0X2.5
300	2.5	32	160	6	100	8	45	9	50	11	63	D752300.0X2.5X160	
315	2.5	32	120	8	100	8	45	9	50	11	63		D753315.0X2.5
315	2.5	32	160	6	100	8	45	9	50	11	63	D752315.0X2.5X160	
350	2.5	32	140	8	120	8	45	9	50	11	63		D753350.0X2.5
350	2.5	32	180	6	120	8	45	9	50	11	63	D752350.0X2.5X180	

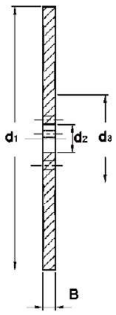
D750
D751

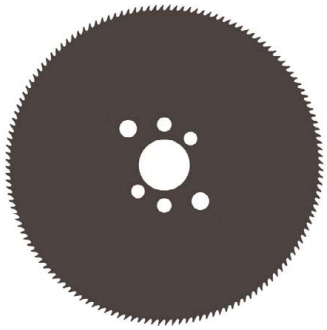
- Metal slitting saw Coarse
- Sierras de ranurar o tronzar paso grueso
- Serras Circulares p/ Abertura de Rasgos
- Fraises scies

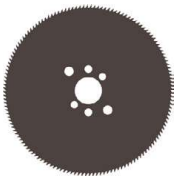
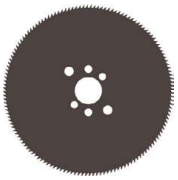
D750; D751	1.1	1.2	1.3	1.4	3.1	3.2	3.3	6.1	6.2	6.3	7.1	7.2	7.3	8.1
●	2.1	2.2												

D750	HSS			Z 128-220		γ18°				
D751	HSS			Z 160-350		γ18°				







D750	D751
	
200.00 - 350.00	200.00 - 350.00

d_1 Ø mm	B mm	d_2 Ø mm	z	P mm	d_3 Ø mm	d_4 Ø mm	i_4 mm	d_5 Ø mm	i_5 mm	d_6 Ø mm	i_6 mm	D750	D751
200	1.8	32	130	5	100	8	45	9	50	11	63	D750200.0X1.8	
200	1.8	32	160	4	100	8	45	9	50	11	63		D751200.0X1.8X160
200	1.8	32	200	3	100	8	45	9	50	11	63		D751200.0X1.8X200
225	2.0	32	140	5	100	8	45	9	50	11	63	D750225.0X2.0	
225	2.0	32	180	4	100	8	45	9	50	11	63		D751225.0X2.0X180
225	2.0	32	220	3	100	8	45	9	50	11	63		D751225.0X2.0X220
250	2.0	32	160	5	100	8	45	9	50	11	63	D750250.0X2.0	
250	2.0	32	200	4	100	8	45	9	50	11	63		D751250.0X2.0X200
250	2.0	32	250	3	100	8	45	9	50	11	63		D751250.0X2.0X250
275	2.5	32	180	5	100	8	45	9	50	11	63	D750275.0X2.5	
275	2.5	32	220	4	100	8	45	9	50	11	63		D751275.0X2.5X220
275	2.5	32	280	3	100	8	45	9	50	11	63		D751275.0X2.5X280
300	2.5	32	180	5	100	8	45	9	50	11	63	D750300.0X2.5	
300	2.5	32	220	4	100	8	45	9	50	11	63		D751300.0X2.5X220
300	2.5	32	300	3	100	8	45	9	50	11	63		D751300.0X2.5X300
315	2.5	32	200	5	100	8	45	9	50	11	63	D750315.0X2.5	
315	2.5	32	240	4	100	8	45	9	50	11	63		D751315.0X2.5X240
315	2.5	32	320	3	100	8	45	9	50	11	63		D751315.0X2.5X320
350	2.5	32	220	5	120	8	45	9	59	11	63	D750350.0X2.5	
350	2.5	32	280	4	120	8	45	9	50	11	63		D751350.0X2.5X280
350	2.5	32	350	3	120	8	45	9	50	11	63		D751350.0X2.5X350

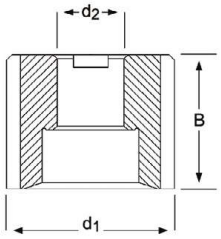
DORMER

D400
D420

- Shell End Mill
- Fresas frontales con agujero
- Fresas de Acabamento Tipo Tacho
- Fraises 2 tailles finition

D400	■	1.1 1.2 1.3 1.4 2.1 2.3 3.1 3.2 3.3 3.4 4.1 5.1 6.1 6.2 6.3 7.2 7.3
	•	1.5 1.6 2.2 4.2 4.3 5.2 5.3 6.4 7.1 7.4 8.1 8.2 8.3 10.1
D420	■	1.1 1.2 1.3 1.4 1.5 1.6 2.1 2.2 2.3 3.1 3.2 3.3 3.4 4.1 4.2 4.3 5.1 5.2 5.3 6.1 6.2 6.3 6.4 7.2 7.3 7.4 8.1 10.1
	•	7.1 8.2 8.3

D400	HSS-E		N	Z 8-12		λ30° γ12°			js16		DIN 1880
D420	HSS-E		N	Z 8-12		λ30° γ12°		TiCN	js16		DIN 1880



D400	D420
	
40.00 - 63.00	40.00 - 63.00

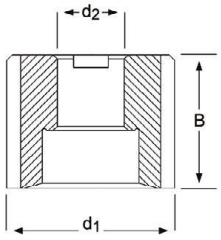
d_1 Ø mm	B mm	d_2 Ø mm	z	D400	D420
40.00	32	16	8	D40040.0	D42040.0
50.00	36	22	8	D40050.0	D42050.0
63.00	40	27	8	D40063.0	D42063.0

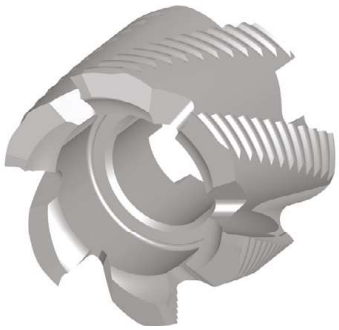
D402
D422

- Roughing Shell End Mill
- Fresas frontales con agujero de desbaste
- Fresa de Desbaste Tipo Tacho
- Fraises 2 tailles finition

D402	■	1.1	1.2	1.3	1.4	2.1	2.3	3.1	3.2	3.3	3.4	4.1	5.1	6.1	6.2	6.3	7.2	7.3	
	•	1.5	1.6	2.2	4.2	4.3	5.2	5.3	6.4	7.1	7.4	8.1	8.2	8.3	10.1				
D422	■	1.1	1.2	1.3	1.4	1.5	1.6	2.1	2.2	2.3	3.1	3.2	3.3	3.4	4.1	4.2	4.3	5.1	5.2	5.3	6.1
		6.2	6.3	6.4	7.2	7.3	7.4	8.1	10.1												
	•	7.1	8.2	8.3																	

D402	HSS-E		NR	Z 6-10		λ30° γ12°			js16		DIN 1880
D422	HSS-E		NR	Z 6-10		λ30° γ12°		TiCN	js16		DIN 1880





D402	D422
	
40.00 - 63.00	40.00 - 63.00

d_1 Ø mm	B mm	d_2 Ø mm	z	D402	D422
40.00	32	16	6	D40240.0	D42240.0
50.00	36	22	6	D40250.0	D42250.0
63.00	40	27	8	D40263.0	D42263.0