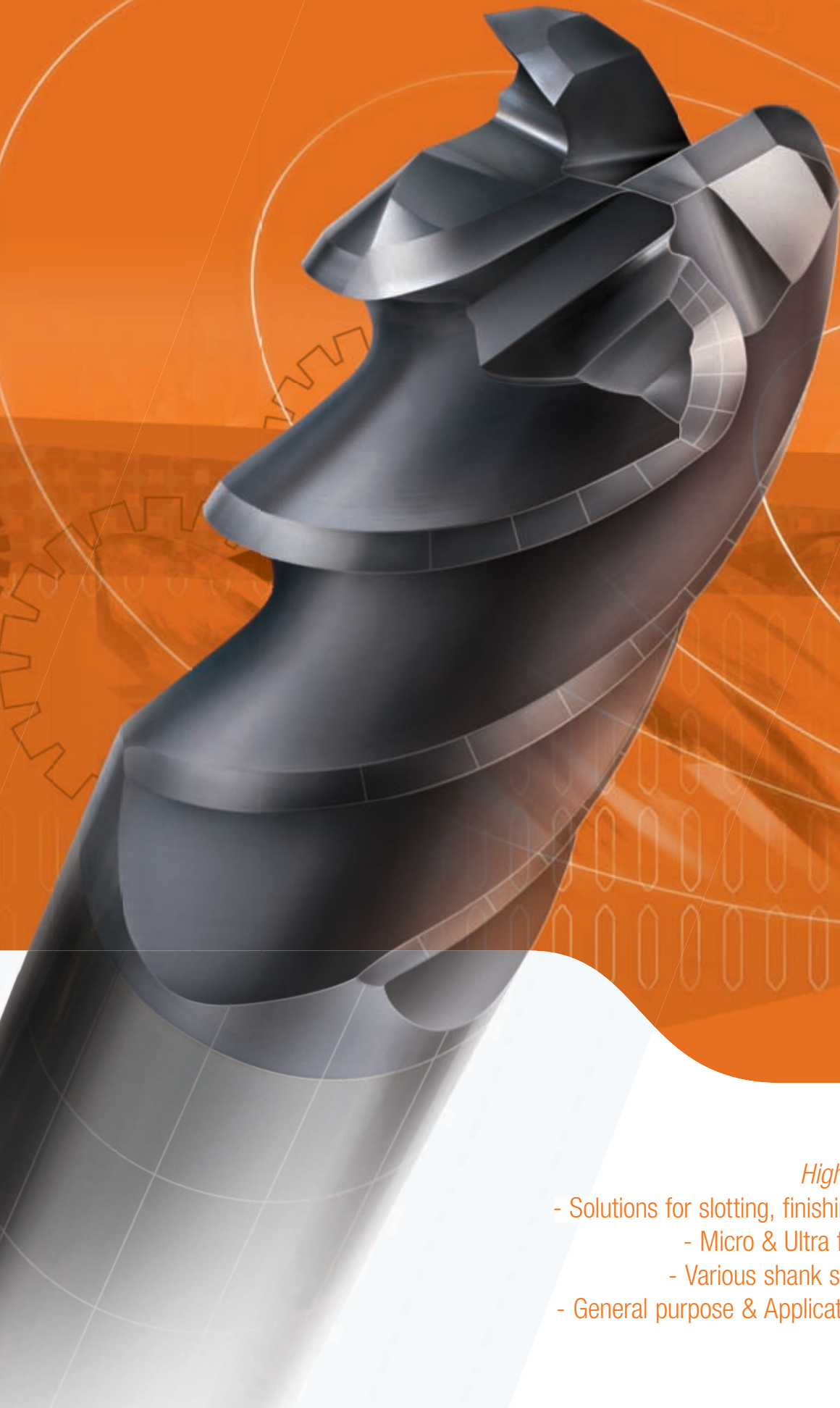


CARBIDE ENDMILLS



Carbide Endmills

High performance solutions

- Solutions for slotting, finishing, roughing & profiling
 - Micro & Ultra fine grain type carbides
 - Various shank styles to suit your needs
- General purpose & Application specific geometries



Page	Slot Drill, Stub, 2 Flute, R30		Slot Drill, Stub, 2 Flute, R30		Slot Drill, Regular, 2 Flute, R30		Slot Drill, Regular, 2 Flute, R30		Slot Drill, Regular, 2 Flute, R30		Slot Drill, Regular, 2 Flute, R30		Slot Drill, Long, 2 Flute, R30		Slot Drill, Extra Long, 2 Flute, R30	
Catalogue Code	E500	E502	E600	E603	E504	E506	E308	E309	E310							
Material	VHM															
Surface Finish	Brt	AlCrN	Brt	TiAlN	Brt	AlCrN	Brt									
Colour Ring & Application	Up to 1600N/mm ²											Up to 1300N/mm ²		Al		
Standard	DIN 6527K		-	-	DIN 6527L			-								
Type of Cut	Slotting															
Material																
Shank Tolerance	h6															

Material	HB	N/mm ²	% Elong.													
1.0 Steels																
1.1 Mild steels, magnetic soft steel	<200	>200 <400	10	●	●	●	●	●	●							
1.2 Free cutting, structural, unalloyed	<200	>350 <700	30	●	●	●	●	●	●							
1.3 Plain carbon, low alloyed	<300	>350 <850	20	●	●	●	●	●	●							
1.4 Alloy steels harden. / tempered	<250	>500 <850	30	○	●	○	●	○	●							
1.5 Alloy steels harden. / tempered	<350	>850 <1200	30	○	●	○	●	○	●							
1.6 Hardened, heat treated, high tensile alloy	<420	>1500	12	○	○	○	○	○	○							
1.7 Hardened Steel 45-50 Rc	<550		<12		○		○	○	○							
1.8 Hardened Steel 50-62 Rc	<700		<12													
2.0 Stainless Steels																
2.1 Free machining	<250	<850	25	●	●	●	●	●	●							
2.2 Austenitic	<250	<850	20	○	○	○	○	○	○							
2.3 Ferritic + martensitic	<250	<850	20	○	○	○	○	○	○							
3.0 Cast Irons																
3.1 Lamellar graphite (Grey soft)	<150	<500	10	●	●	●	●	●	●							
3.2 Lamellar graphite (Grey hard)	<300	<1000	10	○	●	○	●	○	●							
3.3 Nodular (spheroidal) graphite & malleable	<200	<700	10	○	●	○	●	○	●							
4.0 Titaniums																
4.1 Pure Titanium	<250	<850	20	○	○	○	○	○	○							
4.2 Titanium alloys	>250	>850	20	○	○	○	○	○	○							
5.0 Nickels																
5.1 Nickel alloys	<250	<850	25	○	○	○	○	○	○							
5.2 Nickel alloys	>250	>850	25	○	○	○	○	○	○							
6.0 Coppers																
6.1 Pure Copper (electrolytic copper)	<120	<400	12	○	○	○	○	○	○							●
6.2 Short chip Brass, Phosphor Bronze, gun metal	<200	<700	12	○	○	○	○	○	○							
6.3 Long chip Brass, Bronze	<200	<700	12	○	○	○	○	○	○							●
7.0 Aluminiums																
7.1 Aluminium unalloyed	<100	<350	15	○	○	○	○	○	○							●
7.2 Magnesium unalloyed	<150	<350	15	○	○	○	○	○	○							●
7.3 Al Alloyed Si < 1.5 %	<120	<500	15	○	○	○	○	○	○							●
7.4 Al Alloyed 1.5 % < Si < 10%	<120	<400	10	○	○	○	○	○	○							●
7.5 Al Alloyed > 10% Si	-	<400	N	○	○	○	○	○	○							●
7.6 Magnesium alloys	-	<400	N	○	○	○	○	○	○							●
8.0 Plastics																
8.1 Plastics, Thermoplastics, Polyethylene	<340	<50	N	○	○	○	○	○	○							○

Stub, 3 Flute, R30		Stub, 3 Flute, R30		Regular, 3 Flute, R30		Regular, 3 Flute, R30		Stub, 3 Flute, R45 IW		Stub, 3 Flute, R45 IW		Regular, 3 Flute, R45 IW		Regular, 3 Flute, R45 IW		Stub, 4 Flute, R30		Stub, 4 Flute, R30		Regular, 4 Flute, R30		Regular, 4 Flute, R30		Regular, 4 Flute, R30		Long, 4 Flute, R30		Long, 4 Flute, R30		Extra Long, 4 Flute, R30	
358	358	359	359	360	360	361	361	362	362	363	363	364	364	365	365	366															
E509	E511	E513	E515	E517	E519	E521	E523	E525	E527	E601	E604	E529	E531	E337	E340	E341															
VHM																															
BrT	AlCrN	BrT	AlCrN	BrT	AlCrN	BrT	AlCrN	BrT	AlCrN	BrT	TiAlN	BrT	AlCrN	BrT	AlCrN	BrT															
Up to 1600N/mm ²				W				Up to 1600N/mm ²				Up to 1300N/mm ²																			
DIN 6527K		DIN 6527L		DIN 6527K		DIN 6527L		DIN 6527K		-	-	DIN 6527L		-																	
Slotting / Finishing									Finishing																						
h6																															
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●															
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Page	367	368	369	370	371	372	373	374
	Stub - 4 Flute, P33-P38, Harmony		Regular, 4 Flute, P33-P38, Harmony		Regular, 6-8 Flute, P45-VH, Harmony		Regular, 4 Flute, P40, Corner Rad.	
	Regular, 4 Flute, P33-P38, Harmony		Regular, 6-8 Flute, P45-VH, Harmony		Regular, 4 Flute, P40, Corner Rad.		Regular, 4 Flute, STP-P45	
	Regular, 4 Flute, P33-P38, Harmony		Regular, 4 Flute, P40, Corner Rad.		Regular, 4 Flute, P33-P38, Corner Rad., Harmony		Regular, 3-4 Flute, NP-P30	
	Regular, 4 Flute, P33-P38, Harmony		Regular, 4 Flute, P40, Corner Rad.		Regular, 4 Flute, STP-P45		Regular, 3-6 Flute, P45-HRS	
Catalogue Code	E533	E535	E543	E348	E559	E545	E547	E549
Material	VHM-ULTRA			VHM	VHM-ULTRA		VHM	VHM-ULTRA
Surface Finish	AlCrN							
Colour Ring & Application	UNI	VH	Up to 1300N/mm ²	UNI	Up to 1600N/mm ²	UNI	Up to 1600N/mm ²	UNI
Standard	DIN 6527K	DIN 6527L		-	DIN 6527L			
Type of Cut	Finishing				Semi Finishing	Roughing		
Material	h6							
Shank Tolerance	h6							

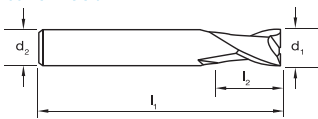
Material	HB	N/mm ²	% Elong.								
1.0 Steels											
1.1 Mild steels, magnetic soft steel	<200	>200 <400	10	●	●		○	●	●	●	○
1.2 Free cutting, structural, unalloyed	<200	>350 <700	30	●	●		○	●	●	●	○
1.3 Plain carbon, low alloyed	<300	>350 <850	20	●	●		○	●	●	○	●
1.4 Alloy steels harden. / tempered	<250	>500 <850	30	●	●		○	●	●	○	●
1.5 Alloy steels harden. / tempered	<350	>850 <1200	30	●	●	○	●	●	●	○	●
1.6 Hardened, heat treated, high tensile alloy	<420	>1500	12	○	●	○	●	●	○		●
1.7 Hardened Steel 45-50 Rc	<550		<12	○	○	●	●	○			○
1.8 Hardened Steel 50-62 Rc	<700		<12		○	●	○	○			
2.0 Stainless Steels											
2.1 Free machining	<250	<850	25	○	○		○	○	○		○
2.2 Austenitic	<250	<850	20	○	○		○	○	○		○
2.3 Ferritic + martensitic	<250	<850	20	○	○		○	○	○		○
3.0 Cast Irons											
3.1 Lamellar graphite (Grey soft)	<150	<500	10	●	●		○	●	●	○	●
3.2 Lamellar graphite (Grey hard)	<300	<1000	10	●	●	●	○	●	●		●
3.3 Nodular (spheroidal) graphite & malleable	<200	<700	10	●	●	○	●	●	●		●
4.0 Titaniums											
4.1 Pure Titanium	<250	<850	20	○	○		○	○	○		○
4.2 Titanium alloys	>250	>850	20	○	○		○	○	○		○
5.0 Nickels											
5.1 Nickel alloys	<250	<850	25	○	○		○	○	○		○
5.2 Nickel alloys	>250	>850	25	○	○		○	○	○		○
6.0 Coppers											
6.1 Pure Copper (electrolytic copper)	<120	<400	12	○			○		○		○
6.2 Short chip Brass, Phosphor Bronze, gun metal	<200	<700	12	○	○	●	○	○	○		○
6.3 Long chip Brass, Bronze	<200	<700	12	○			○		○		○
7.0 Aluminiums											
7.1 Aluminium unalloyed	<100	<350	15	●	●		○	●		●	●
7.2 Magnesium unalloyed	<150	<350	15	●	●		○	●		●	●
7.3 Al Alloyed Si < 1.5 %	<120	<500	15	○	○		○	○		○	○
7.4 Al Alloyed 1.5 % < Si < 10%	<120	<400	10	○	○		○	○		○	○
7.5 Al Alloyed > 10% Si	-	<400	N	○	○		○	○		○	○
7.6 Magnesium alloys	-	<400	N	○	○		○	○		○	○
8.0 Plastics											
8.1 Plastics, Thermoplastics, Polyethylene	<340	<50	N	○	○		○	○			○

Slot Drill, Regular, Ballnose, 2 Flute, R30		Slot Drill, Regular, Ballnose, 2 Flute, R30		Slot Drill, Regular, Ballnose, 2 Flute, R30		Slot Drill, Long Reach, Ballnose, 2 Flute, R30		Slot Drill, Extra Long, Ballnose, 2 Flute, R30	
Slot Drill, Regular, Ballnose, 4 Flute, R30		Slot Drill, Regular, Ballnose, 4 Flute, R30		Slot Drill, Long Reach, Ballnose, 4 Flute, R30		Slot Drill, Extra Long, Ballnose, 4 Flute, R30		Slot Drill, Regular, Ballnose, 4 Flute, R30	
375	375	376	376	377	378	379	379	380	381
VHM			VHM-ULTRA		VHM			VHM-ULTRA	VHM
Brt	TiAlN		Brt	AlCrN		Brt		TiAlN	Brt
Up to 1600N/mm ²				Up to 1300N/mm ²		Up to 1600N/mm ²			Up to 1300N/mm ²
-	-	DIN 6527L				-	-		
Profiling									
h6									
●	●	●	●	●	●	●	●	●	●
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Slot Drills Carbide, Stub, 2 Flute, R30



- For precision milling of slots & cavities
- Suitable for materials up to 1600 N/mm²
- AlCrN longer tool life



Catalogue Code Size Ref.



Size Ref.	d ₁	l ₁	l ₂	d ₂	z
0200	2.0	50	3	6	2
0300	3.0	50	4	6	2
0400	4.0	54	5	6	2
0500	5.0	54	6	6	2
0600	6.0	54	7	6	2
0800	8.0	58	9	8	2
1000	10.0	66	11	10	2
1200	12.0	72	12	12	2
1600	16.0	82	16	16	2
2000	20.0	92	20	20	2



Catalogue Code	E500	E502
Discount Group	B0208	B0210
Material	VHM	VHM
Surface Finish	Brt	AlCrN
Colour Ring & Application	Up to 1600N/mm ²	Up to 1600N/mm ²
Geometry	R30	R30
Shank Form (DIN 6535)	HA	HA
Shank Tolerance	h6	h6

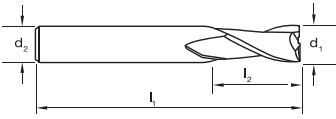
Item #	Item #
E500 0200	E502 0200
E500 0300	E502 0300
E500 0400	E502 0400
E500 0500	E502 0500
E500 0600	E502 0600
E500 0800	E502 0800
E500 1000	E502 1000
E500 1200	E502 1200
E500 1600	E502 1600
E500 2000	E502 2000

* Not available once current stock is depleted

Slot Drills Carbide, Regular, 2 Flute, R30



- For precision milling of slots & cavities
- Suitable for materials up to 1600 N/mm²
- AlCrN longer tool life



Catalogue Code Size Ref.



Catalogue Code

E600

E603

Discount Group

B0212

B0214

Material

VHM

VHM

Surface Finish

Brt

TAIN

Colour Ring & Application

Up to 1600N/mm²

Up to 1600N/mm²

Geometry

R30

R30

Shank Form (DIN 6535)

HA

HA

Shank Tolerance

h6

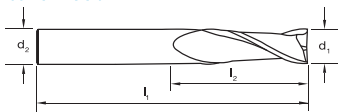
h6

Size Ref.	d ₁	l ₁	l ₂	d ₂	z	Item #	Item #
0100	1.0	38	4	3	2	E600 0100	E603 0100
0150	1.5	38	4.5	3	2	E600 0150	E603 0150
0200	2.0	38	6	3	2	E600 0200	E603 0200
0250	2.5	38	9.5	3	2	E600 0250	E603 0250
0300	3.0	38	12	3	2	E600 0300	E603 0300
0350	3.5	50	12	4	2	E600 0350	E603 0350
0400	4.0	50	14	4	2	E600 0400	E603 0400
0450	4.5	50	16	6	2	E600 0450	E603 0450
0500	5.0	50	16	6	2	E600 0500	E603 0500
0600	6.0	50	19	6	2	E600 0600	E603 0600
0700	7.0	63	19	8	2	E600 0700	E603 0700
0800	8.0	63	20	8	2	E600 0800	E603 0800
0900	9.0	75	22	10	2	E600 0900	E603 0900
1000	10.0	75	22	10	2	E600 1000	E603 1000
1100	11.0	75	25	12	2	E600 1100	E603 1100
1200	12.0	75	25	12	2	E600 1200	E603 1200
1400	14.0	89	32	14	2	E600 1400	E603 1400
1600	16.0	89	32	16	2	E600 1600	E603 1600
1800	18.0	100	38	18	2	E600 1800	E603 1800
2000	20.0	100	38	20	2	E600 2000	E603 2000
2500	25.0	100	38	25	2	E600 2500	E603 2500

Slot Drills Carbide, Regular, 2 Flute, R30



- For precision milling of slots & cavities
- Suitable for materials up to 1600 N/mm²
- AlCrN longer tool life



Catalogue Code Size Ref.



Size Ref.	d ₁	l ₁	l ₂	d ₂	z
0100	1.0	38	2	3	2
0150	1.5	38	3	3	2
0200	2.0	57	6	6	2
0250	2.5	57	7	6	2
0300	3.0	57	7	6	2
0350	3.5	57	7	6	2
0400	4.0	57	8	6	2
0450	4.5	57	8	6	2
0500	5.0	57	10	6	2
0600	6.0	57	10	6	2
0700	7.0	63	13	8	2
0800	8.0	63	16	8	2
0900	9.0	72	16	10	2
1000	10.0	72	19	10	2
1100	11.0	83	22	12	2
1200	12.0	83	22	12	2
1400	14.0	83	22	14	2
1600	16.0	92	26	16	2
1800	18.0	92	26	18	2
2000	20.0	104	32	20	2
SUTTON STD					
0159	1/16	1-1/2	3/16	1/8	2
0238	3/32	1-1/2	5/16	1/8	2
0318	1/8	1-1/2	1/2	1/8	2
0397	5/32	2	9/16	3/16	2
0476	3/16	2	5/8	3/16	2
0556	7/32	2-1/2	5/8	1/4	2
0635	1/4	2-1/2	3/4	1/4	2
0794	5/16	2-1/2	13/16	5/16	2
0953	3/8	2-1/2	7/8	3/8	2
1111	7/16	2-3/4	1	7/16	2
1270	1/2	3	1	1/2	2
1588	5/8	3-1/2	1-1/4	5/8	2
1905	3/4	4	1-1/2	3/4	2
2223	7/8	4	1-1/2	7/8	2
2540	1	4	1-1/2	1	2



Catalogue Code	E504	E506
Discount Group	B0208	B0210
Material	VHM	VHM
Surface Finish	Brt	AlCrN
Colour Ring & Application	Up to 1600N/mm²	Up to 1600N/mm²
Geometry	R30	R30
Shank Form (DIN 6535)	HA	HA
Shank Tolerance	h6	h6

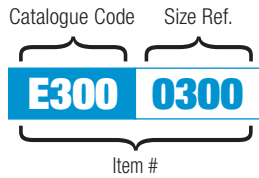
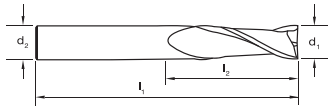
Item #	Item #
•	
•	
E504 0200	E506 0200
•	
E504 0300	E506 0300
•	
E504 0400	E506 0400
•	
E504 0500	E506 0500
E504 0600	E506 0600
E504 0700	E506 0700
E504 0800	E506 0800
E504 0900	E506 0900
E504 1000	E506 1000
•	
E504 1200	E506 1200
E504 1400	E506 1400
E504 1600	E506 1600
E504 1800	E506 1800
E504 2000	E506 2000
E304	
E304 0159	E307 0159
E304 0238	E307 0238
E304 0318	E307 0318
E304 0397	E307 0397
E304 0476	E307 0476
E304 0556	E307 0556
E304 0635	E307 0635
E304 0794	E307 0794
E304 0953	E307 0953
E304 1111	E307 1111
E304 1270	E307 1270
E304 1588	E307 1588
E304 1905	E307 1905
E304 2223	E307 2223
E304 2540	E307 2540

• Available on request as special manufacture. Subject to lead time.

Slot Drills Carbide, Long, 2 Flute, R30



- For long reach milling of slots & cavities
- Suitable for materials up to 1300 N/mm²



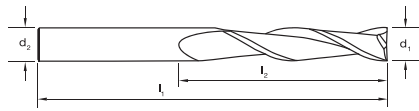
Catalogue Code	E308
Discount Group	B0208
Material	VHM
Surface Finish	Br
Colour Ring & Application	Up to 1300N/mm²
Geometry	R30
Shank Form (DIN 6535)	HA
Shank Tolerance	h6

Size Ref.	d ₁	l ₁	l ₂	d ₂	z	Item #
0300	3.0	60	19	3	2	E308 0300
0400	4.0	60	19	4	2	E308 0400
0500	5.0	60	25	5	2	E308 0500
0600	6.0	75	31	6	2	E308 0600
0800	8.0	75	31	8	2	E308 0800
1000	10.0	75	31	10	2	E308 1000
1200	12.0	100	50	12	2	E308 1200
1400	14.0	125	57	14	2	E308 1400
1600	16.0	125	57	16	2	E308 1600
1800	18.0	125	57	18	2	E308 1800
2000	20.0	125	57	20	2	E308 2000

Slot Drills Carbide, Extra Long, 2 Flute, R30



- For extra long reach milling of slots & cavities
- Suitable for materials up to 1300 N/mm²



Catalogue Code Size Ref.



Size Ref.	d ₁	l ₁	l ₂	d ₂	z	Item #
0300	3.0	76	25	3	2	E309 0300
0400	4.0	76	28	4	2	E309 0400
0500	5.0	76	32	5	2	E309 0500
0600	6.0	102	38	6	2	E309 0600
0800	8.0	102	42	8	2	E309 0800
1000	10.0	102	45	10	2	E309 1000
1200	12.0	153	76	12	2	E309 1200
1400	14.0	153	76	14	2	E309 1400
1600	16.0	153	76	16	2	E309 1600
1800	18.0	153	76	18	2	E309 1800
2000	20.0	153	76	20	2	E309 2000

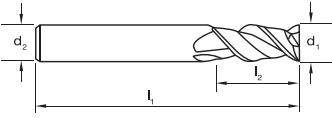


Catalogue Code	E309
Discount Group	B0208
Material	VHM
Surface Finish	Brt
Colour Ring & Application	Up to 1300N/mm²
Geometry	R30
Shank Form (DIN 6535)	HA
Shank Tolerance	h6

Slot Drills Carbide, Regular, 2 Flute, R40, AlCarb



- For precision milling of slots & cavities
- Optimised geometry for aluminiums & non-ferrous materials
- High speed & high feed rates can be achieved
- Highly efficient chip disposal



Catalogue Code Size Ref.



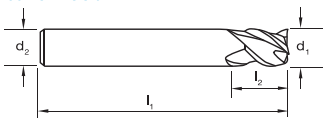
Catalogue Code	E310
Discount Group	B0208
Material	VHM
Surface Finish	Brt
Colour Ring & Application	Al
Geometry	R40
Shank Form (DIN 6535)	HA
Shank Tolerance	h6

Size Ref.	d ₁	l ₁	l ₂	d ₂	z	Item #
0300	3.0	60	10	6	2	E310 0300
0400	4.0	60	14	6	2	E310 0400
0500	5.0	60	15	6	2	E310 0500
0600	6.0	60	20	6	2	E310 0600
0800	8.0	64	20	8	2	E310 0800
1000	10.0	70	22	10	2	E310 1000
1200	12.0	75	25	12	2	E310 1200
1600	16.0	90	32	16	2	E310 1600
2000	20.0	100	38	20	2	E310 2000

Endmills Carbide, Stub, 3 Flute, R45 W



- Universal use for slotting & finishing applications, with one tool
- Optimised geometry for soft materials
- Brt for non ferrous materials
- AlCrN for longer tool life



Catalogue Code Size Ref.



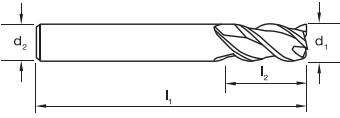
Catalogue Code	E517	E519
Discount Group	B0208	B0210
Material	VHM	VHM
Surface Finish	Brt	AlCrN
Colour Ring & Application	W	W
Geometry	R45	R45
Shank Form (DIN 6535)	HA	HA
Shank Tolerance	h6	h6

Size Ref.	d ₁	l ₁	l ₂	d ₂	z	Item #	Item #
0300	3.0	50	4	6	3	E517 0300	E519 0300
0400	4.0	54	5	6	3	E517 0400	E519 0400
0500	5.0	54	6	6	3	E517 0500	E519 0500
0600	6.0	54	7	6	3	E517 0600	E519 0600
0800	8.0	58	9	8	3	E517 0800	E519 0800
1000	10.0	66	11	10	3	E517 1000	E519 1000
1200	12.0	73	12	12	3	E517 1200	E519 1200
1600	16.0	82	16	16	3	E517 1600	E519 1600
2000	20.0	92	20	20	3	E517 2000	E519 2000

Endmills Carbide, Regular, 3 Flute, R45 W



- Universal use for slotting & finishing applications, with one tool
- Optimised geometry for soft materials
- Brt for non ferrous materials
- AlCrN for longer tool life



Catalogue Code Size Ref.



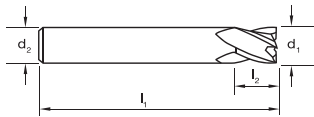
Catalogue Code	E521	E523
Discount Group	B0208	B0210
Material	VHM	VHM
Surface Finish	Brt	AlCrN
Colour Ring & Application	W	W
Geometry	R45	R45
Shank Form (DIN 6535)	HA	HA
Shank Tolerance	h6	h6

Size Ref.	d ₁	l ₁	l ₂	d ₂	z	Item #	Item #
0300	3.0	57	7	6	3	E521 0300	E523 0300
0400	4.0	57	8	6	3	E521 0400	E523 0400
0500	5.0	57	10	6	3	E521 0500	E523 0500
0600	6.0	57	10	6	3	E521 0600	E523 0600
0800	8.0	63	16	8	3	E521 0800	E523 0800
1000	10.0	72	19	10	3	E521 1000	E523 1000
1200	12.0	83	22	12	3	E521 1200	E523 1200
1600	16.0	92	26	16	3	E521 1600	E523 1600
2000	20.0	104	32	20	3	E521 2000	E523 2000

Endmills Carbide, Stub, 4 Flute, R30



- For precision finish milling applications
- Suitable for materials up to 1600 N/mm²
- AlCrN for longer tool life



Catalogue Code Size Ref.



Size Ref.	d ₁	l ₁	l ₂	d ₂	z
0300	3.0	50	5	6	4
0400	4.0	54	8	6	4
0500	5.0	54	9	6	4
0600	6.0	54	10	6	4
0800	8.0	58	12	8	4
1000	10.0	66	14	10	4
1200	12.0	73	16	12	4
1600	16.0	82	22	16	4
2000	20.0	92	26	20	4



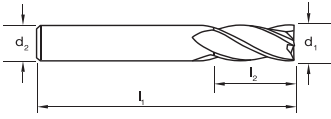
Catalogue Code	E525	E527
Discount Group	B0208	B0210
Material	VHM	VHM
Surface Finish	Brt	AlCrN
Colour Ring & Application	Up to 1600N/mm ²	Up to 1600N/mm ²
Geometry	R30	R30
Shank Form (DIN 6535)	HA	HA
Shank Tolerance	h6	h6

Size Ref.	d ₁	l ₁	l ₂	d ₂	z	Item #	Item #
0300	3.0	50	5	6	4	E525 0300	E527 0300
0400	4.0	54	8	6	4	E525 0400	E527 0400
0500	5.0	54	9	6	4	E525 0500	E527 0500
0600	6.0	54	10	6	4	E525 0600	E527 0600
0800	8.0	58	12	8	4	E525 0800	E527 0800
1000	10.0	66	14	10	4	E525 1000	E527 1000
1200	12.0	73	16	12	4	E525 1200	E527 1200
1600	16.0	82	22	16	4	E525 1600	E527 1600
2000	20.0	92	26	20	4	E525 2000	E527 2000

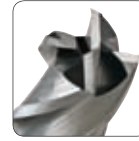
Endmills Carbide, Regular, 4 Flute, R30



- For precision finish milling applications
- Suitable for materials up to 1600 N/mm²
- TiAIN for longer tool life



Catalogue Code Size Ref.



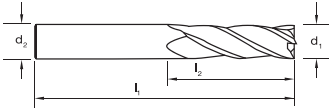
Catalogue Code	E601	E604
Discount Group	B0212	B0214
Material	VHM	VHM
Surface Finish	Brt	TIAIN
Colour Ring & Application	Up to 1600N/mm²	Up to 1600N/mm²
Geometry	R30	R30
Shank Form (DIN 6535)	HA	HA
Shank Tolerance	h6	h6

Size Ref.	d ₁	l ₁	l ₂	d ₂	z	Item #	Item #
0100	1.0	38	4	3	4	E601 0100	E604 0100
0150	1.5	38	4.5	3	4	E601 0150	E604 0150
0200	2.0	38	6	3	4	E601 0200	E604 0200
0250	2.5	38	9.5	3	4	E601 0250	E604 0250
0300	3.0	38	12	3	4	E601 0300	E604 0300
0350	3.5	50	12	4	4	E601 0350	E604 0350
0400	4.0	50	14	4	4	E601 0400	E604 0400
0450	4.5	50	16	6	4	E601 0450	E604 0450
0500	5.0	50	16	6	4	E601 0500	E604 0500
0600	6.0	50	19	6	4	E601 0600	E604 0600
0700	7.0	63	19	8	4	E601 0700	E604 0700
0800	8.0	63	20	8	4	E601 0800	E604 0800
0900	9.0	75	22	10	4	E601 0900	E604 0900
1000	10.0	75	22	10	4	E601 1000	E604 1000
1100	11.0	75	25	12	4	E601 1100	E604 1100
1200	12.0	75	25	12	4	E601 1200	E604 1200
1400	14.0	89	32	14	4	E601 1400	E604 1400
1600	16.0	89	32	16	4	E601 1600	E604 1600
1800	18.0	100	38	18	4	E601 1800	E604 1800
2000	20.0	100	38	20	4	E601 2000	E604 2000
2500	25.0	100	38	25	4	E601 2500	E604 2500

Endmills Carbide, Regular, 4 Flute, R30



- For precision finish milling applications
- Suitable for materials up to 1600 N/mm²
- AlCrN for longer tool life



Catalogue Code Size Ref.



Size Ref.	d ₁	L ₁	L ₂	d ₂	z
DIN 6527L					
0100	1.0	38	2	3	4
0150	1.5	38	3	3	4
0200	2.0	57	7	6	4
0250	2.5	57	7	6	4
0300	3.0	57	8	6	4
0350	3.5	57	10	6	4
0400	4.0	57	11	6	4
0450	4.5	57	11	6	4
0500	5.0	57	13	6	4
0600	6.0	57	13	6	4
0700	7.0	63	16	8	4
0800	8.0	63	19	8	4
0900	9.0	72	19	10	4
1000	10.0	72	22	10	4
1100	11.0	83	22	12	4
1200	12.0	83	26	12	4
1400	14.0	83	26	14	4
1600	16.0	92	32	16	4
1800	18.0	92	32	18	4
2000	20.0	104	38	20	4
SUTTON STD					
0159	1/16	1-1/2	3/16	1/8	4
0238	3/32	1-1/2	5/16	1/8	4
0318	1/8	1-1/2	1/2	1/8	4
0397	5/32	2	9/16	5/32	4
0476	3/16	2	5/8	3/16	4
0556	7/32	2-1/2	5/8	7/32	4
0635	1/4	2-1/2	3/4	1/4	4
0794	5/16	2-1/2	13/16	5/16	4
0953	3/8	2-1/2	7/8	3/8	4
1270	1/2	3	1	1/2	4
1588	5/8	3-1/2	1-1/4	5/8	4
1905	3/4	4	1-1/2	3/4	4



Catalogue Code	E529	E531
Discount Group	B0208	B0210
Material	VHM	VHM
Surface Finish	Brt	AlCrN
Colour Ring & Application	Up to 1600N/mm ²	Up to 1600N/mm ²
Geometry	R30	R30
Shank Form (DIN 6535)	HA	HA
Shank Tolerance	h6	h6

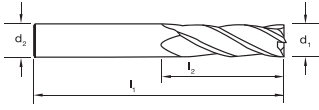
Item #	Item #
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•	•
•	•
•	•
E529 0300	E531 0300
•	•
E529 0400	E531 0400
•	•
E529 0500	E531 0500
E529 0600	E531 0600
E529 0700	E531 0700
E529 0800	E531 0800
E529 0900	E531 0900
E529 1000	E531 1000
•	•
E529 1200	E531 1200
E529 1400	E531 1400
E529 1600	E531 1600
E529 1800	E531 1800
E529 2000	E531 2000
E333	E336
E333 0159	E336 0159
E333 0238	E336 0238
E333 0318	E336 0318
E333 0397	E336 0397
E333 0476	E336 0476
E333 0556	E336 0556
E333 0635	E336 0635
E333 0794	E336 0794
E333 0953	E336 0953
E333 1270	E336 1270
E333 1588	E336 1588
E333 1905	E336 1905

• Available on request as special manufacture. Subject to lead time.

Endmills Carbide, Long, 4 Flute, R30



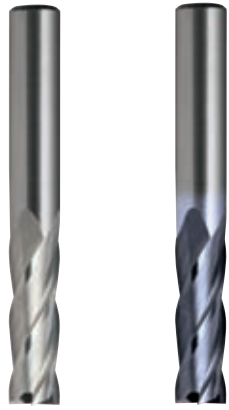
- For long-reach finish milling applications
- Suitable for materials up to 1300 N/mm²
- AlCrN for longer tool life



Catalogue Code Size Ref.



Size Ref.	d ₁	l ₁	l ₂	d ₂	z
0318	1/8	2-1/4	3/4	1/8	4
0635	1/4	3	1-1/8	1/4	4
0794	5/16	3	1-1/8	5/16	4
0953	3/8	3	1-1/8	3/8	4
1270	1/2	4	2	1/2	4
1588	5/8	5	2-1/4	5/8	4
1905	3/4	5	2-1/4	3/4	4



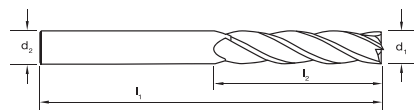
Catalogue Code	E337	E340
Discount Group	B0202	B0204
Material	VHM	VHM
Surface Finish	Brt	AlCrN
Colour Ring & Application	Up to 1300N/mm²	Up to 1300N/mm²
Geometry	R30	R30
Shank Form (DIN 6535)	HA	HA
Shank Tolerance	h6	h6

Item #	Item #
E337 0318	E340 0318
E337 0635	E340 0635
E337 0794	E340 0794
E337 0953	E340 0953
E337 1270	E340 1270
E337 1588	E340 1588
E337 1905	E340 1905

Endmills Carbide, Extra Long, 4 Flute, R30



- For extra long-reach finish milling applications
- Suitable for materials up to 1300 N/mm²
- AlCrN for longer tool life



Catalogue Code Size Ref.



Size Ref.	d ₁	l ₁	l ₂	d ₂	z	Item #
0300	3.0	75	25	3	4	E341 0300
0400	4.0	75	28	4	4	E341 0400
0500	5.0	75	32	5	4	E341 0500
0600	6.0	100	38	6	4	E341 0600
0800	8.0	100	41	8	4	E341 0800
1000	10.0	100	44	10	4	E341 1000
1200	12.0	150	75	12	4	E341 1200
1400	14.0	150	75	14	4	E341 1400
1600	16.0	150	75	16	4	E341 1600
1800	18.0	150	75	18	4	E341 1800
2000	20.0	150	75	20	4	E341 2000

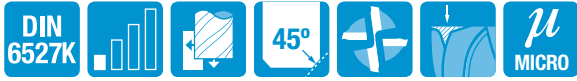
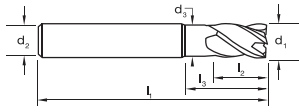


Catalogue Code	E341
Discount Group	B0208
Material	VHM
Surface Finish	Brt
Colour Ring & Application	Up to 1300N/mm²
Geometry	R30
Shank Form (DIN 6535)	HA
Shank Tolerance	h6

Endmills Carbide, Stub, 4 Flute, R35/38, Harmony



- VHM-ULTRA grade of carbide for high performance
- 35/38° variable flute helix for chatter free milling
- Suitable for materials up to 1600 N/mm²
- AlCrN for longer tool life



Catalogue Code Size Ref.



Size Ref.	d ₁	l ₁	l ₂	l ₃	d ₂	d ₃	z	Item #
0600	6.0	54	10	18	6	5.5	4	E533 0600
0800	8.0	58	12	22	8	7.5	4	E533 0800
1000	10.0	66	14	24	10	9.5	4	E533 1000
1200	12.0	73	16	28	12	11.2	4	E533 1200
1600	16.0	82	22	34	16	15.0	4	E533 1600
2000	20.0	92	26	42	20	19.0	4	E533 2000

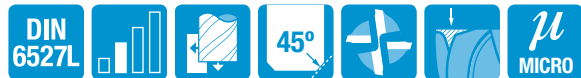
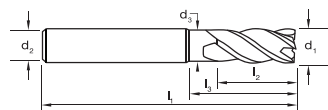


Catalogue Code	E533
Discount Group	B0210
Material	VHM-ULTRA
Surface Finish	AlCrN
Colour Ring & Application	HARMONY
Geometry	R35 / 38
Shank Form (DIN 6535)	HA
Shank Tolerance	h6

Endmills Carbide, Regular, 4 Flute, R35/38, Harmony



- VHM-ULTRA grade of carbide for high performance
- 35/38° variable flute helix for chatter free milling
- Suitable for materials up to 1600 N/mm²
- AlCrN for longer tool life



Catalogue Code Size Ref.



Size Ref.	d ₁	l ₁	l ₂	l ₃	d ₂	d ₃	z	Item #
0300	3.0	57	8	19	6	2.8	4	E535 0300
0400	4.0	57	11	19	6	3.7	4	E535 0400
0500	5.0	57	13	20	6	4.6	4	E535 0500
0600	6.0	57	13	21	6	5.5	4	E535 0600
0800	8.0	63	19	27	8	7.5	4	E535 0800
1000	10.0	72	22	32	10	9.5	4	E535 1000
1200	12.0	83	26	38	12	11.2	4	E535 1200
1400	14.0	83	26	38	14	13.0	4	E535 1400
1600	16.0	92	32	44	16	15.0	4	E535 1600
1800	18.0	92	32	44	18	17.0	4	E535 1800
2000	20.0	104	38	54	20	19.0	4	E535 2000
2500	25.0	120	45	64	25	24.0	4	E535 2500

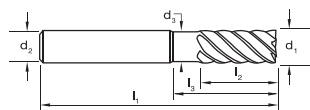


Catalogue Code	E535
Discount Group	B0210
Material	VHM-ULTRA
Surface Finish	AlCrN
Colour Ring & Application	HARMONY
Geometry	R35 / 38
Shank Form (DIN 6535)	HA
Shank Tolerance	h6

Endmills Carbide, Regular, 6-8 Flute, R45-VH, *Harmony*



- VHM-ULTRA grade of carbide for high performance
- For super fine finishing applications
- Suitable for hard, short chipping materials up to 65 HRc
- Multi-flute & heavy core design enable high feed rates
- AlCrN for longer tool life



Catalogue Code Size Ref.



Size Ref.	d ₁	l ₁	l ₂	l ₃	d ₂	d ₃	z	Item #
0600	6.0	57	13	21	6	5.5	6	E543 0600
0800	8.0	63	19	27	8	7.5	6	E543 0800
1000	10.0	72	22	32	10	9.5	6	E543 1000
1200	12.0	83	26	38	12	11.2	6	E543 1200
1600	16.0	92	32	44	16	15.0	8	E543 1600
2000	20.0	104	38	54	20	19.0	8	E543 2000

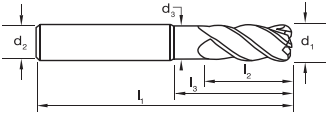


Catalogue Code	E543
Discount Group	B0210
Material	VHM-ULTRA
Surface Finish	AlCrN
Colour Ring & Application	HARMONY
Geometry	R45
Shank Form (DIN 6535)	HA
Shank Tolerance	h6

Endmills Carbide, Regular, 4 Flute, R40, Corner Radius



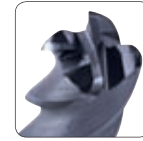
- For precision finishing applications
- Ideally suited to materials up to 1300 N/mm²
- AlCrN for longer tool life



Catalogue Code Size Ref.



Size Ref.	d ₁	l ₁	l ₂	d ₂	z	rad	Item #
0303	3.0	40	9	3	4	0.3	E348 0303
0305		40	9	3	4	0.5	E348 0305
0403	4.0	50	12	4	4	0.3	E348 0403
0405		50	12	4	4	0.5	E348 0405
0410		50	12	4	4	1.0	E348 0410
0503	5.0	50	15	5	4	0.3	E348 0503
0505		50	15	5	4	0.5	E348 0505
0510		50	15	5	4	1.0	E348 0510
0603	6.0	60	20	6	4	0.3	E348 0603
0605		60	20	6	4	0.5	E348 0605
0610		60	20	6	4	1.0	E348 0610
0803	8.0	64	20	8	4	0.3	E348 0803
0805		64	20	8	4	0.5	E348 0805
0810		64	20	8	4	1.0	E348 0810
0815		64	20	8	4	1.5	E348 0815
0820		64	20	8	4	2.0	E348 0820
1003	10.0	70	22	10	4	0.3	E348 1003
1005		70	22	10	4	0.5	E348 1005
1010		70	22	10	4	1.0	E348 1010
1015		70	22	10	4	1.5	E348 1015
1020		70	22	10	4	2.0	E348 1020
1203	12.0	75	25	12	4	0.3	E348 1203
1205		75	25	12	4	0.5	E348 1205
1210		75	25	12	4	1.0	E348 1210
1215		75	25	12	4	1.5	E348 1215
1220		75	25	12	4	2.0	E348 1220
1230		75	25	12	4	3.0	E348 1230
1605	16.0	90	32	16	4	0.5	E348 1605
1610		90	32	16	4	1.0	E348 1610
1615		90	32	16	4	1.5	E348 1615
1620		90	32	16	4	2.0	E348 1620
1630		90	32	16	4	3.0	E348 1630
2005	20.0	100	38	20	4	0.5	E348 2005
2010		100	38	20	4	1.0	E348 2010
2015		100	38	20	4	1.5	E348 2015
2020		100	38	20	4	2.0	E348 2020
2030		100	38	20	4	3.0	E348 2030

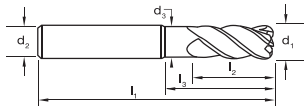


Catalogue Code	E348
Discount Group	B0210
Material	VHM
Surface Finish	AlCrN
Colour Ring & Application	Up to 1300N/mm²
Geometry	R40
Shank Form (DIN 6535)	HA
Shank Tolerance	h6

Endmills Carbide, Regular, 4 Flute, R35/38, Corner Radius, Harmony



- For precision finishing applications
- Ideally suited to materials up to 1300 N/mm²
- AlCrN for longer tool life



Catalogue Code Size Ref.



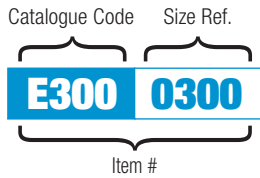
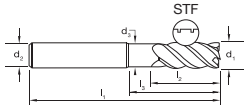
Catalogue Code	E559
Discount Group	B0210
Material	VHM-ULTRA
Surface Finish	AlCrN
Colour Ring & Application	HARMONY
Geometry	R35 / 38
Shank Form (DIN 6535)	HA
Shank Tolerance	h6

Size Ref.	d ₁	l ₁	l ₂	l ₃	d ₂	d ₃	z	rad	Item #
0303	3.0	57	8	19	6	3.7	4	0.3	E559 0303
0305		57	8	19	6	3.7	4	0.5	E559 0305
0403	4.0	57	11	19	6	3.7	4	0.3	E559 0403
0405		57	11	19	6	3.7	4	0.5	E559 0405
0410		57	11	19	6	3.7	4	1.0	E559 0410
0503	5.0	57	13	20	6	4.6	4	0.3	E559 0503
0505		57	13	20	6	4.6	4	0.5	E559 0505
0510		57	13	20	6	4.6	4	1.0	E559 0510
0603	6.0	57	13	21	6	5.5	4	0.3	E559 0603
0605		57	13	21	6	5.5	4	0.5	E559 0605
0610		57	13	21	6	5.5	4	1.0	E559 0610
0803	8.0	63	19	27	8	7.5	4	0.3	E559 0803
0805		63	19	27	8	7.5	4	0.5	E559 0805
0810		63	19	27	8	7.5	4	1.0	E559 0810
0815		63	19	27	8	7.5	4	1.5	E559 0815
0820		63	19	27	8	7.5	4	2.0	E559 0820
1003	10.0	72	22	32	10	9.5	4	0.3	E559 1003
1005		72	22	32	10	9.5	4	0.5	E559 1005
1010		72	22	32	10	9.5	4	1.0	E559 1010
1015		72	22	32	10	9.5	4	1.5	E559 1015
1020		72	22	32	10	9.5	4	2.0	E559 1020
1203	12.0	83	26	38	12	11.2	4	0.3	E559 1203
1205		83	26	38	12	11.2	4	0.5	E559 1205
1210		83	26	38	12	11.2	4	1.0	E559 1210
1215		83	26	38	12	11.2	4	1.5	E559 1215
1220		83	26	38	12	11.2	4	2.0	E559 1220
1230		83	26	38	12	11.2	4	3.0	E559 1230
1605	16.0	92	32	44	16	15.0	4	0.5	E559 1605
1610		92	32	44	16	15.0	4	1.0	E559 1610
1615		92	32	44	16	15.0	4	1.5	E559 1615
1620		92	32	44	16	15.0	4	2.0	E559 1620
1630		92	32	44	16	15.0	4	3.0	E559 1630
2005	20.0	104	38	54	20	19.0	4	0.5	E559 2005
2010		104	38	54	20	19.0	4	1.0	E559 2010
2015		104	38	54	20	19.0	4	1.5	E559 2015
2020		104	38	54	20	19.0	4	2.0	E559 2020
2030		104	38	54	20	19.0	4	3.0	E559 2030

Endmills Carbide, Regular, 4 Flute, R45-STF



- VHM-ULTRA grade of carbide for high performance
- For finishing & semi-roughing applications
- Suitable for materials up to 1400 N/mm²
- Unequal flute design with Special Tooth Form (STF), produces excellent surface finish
- Eliminates the use of finishing endmills in many cases
- AlCrN for longer tool life



Size Ref.	d ₁	l ₁	l ₂	l ₃	d ₂	d ₃	z	Item #
0400	4.0	57	11	28	6	3.7	4	E545 0400
0500	5.0	57	13	28.5	6	4.6	4	E545 0500
0600	6.0	57	13	21	6	5.5	4	E545 0600
0800	8.0	63	19	27	8	7.5	4	E545 0800
1000	10.0	72	22	32	10	9.5	4	E545 1000
1200	12.0	83	26	38	12	11.2	4	E545 1200
1600	16.0	92	32	44	16	15.0	4	E545 1600
2000	20.0	104	38	54	20	19.0	4	E545 2000

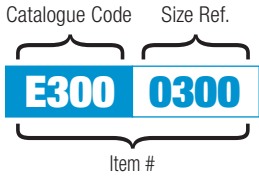
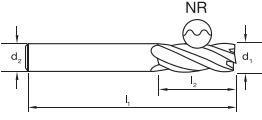


Catalogue Code	E545
Discount Group	B0210
Material	VHM-ULTRA
Surface Finish	AlCrN
Colour Ring & Application	HARMONY
Geometry	R45 (Uneq. Flute)
Shank Form (DIN 6535)	HA
Shank Tolerance	h6

Endmills Carbide, Regular, 3-4 Flute, R30-NR



- For roughing applications
- NR geometry allows for heavy cuts
- Suitable for materials up to 1600 N/mm²
- AlCrN for longer tool life



Size Ref.	d ₁	l ₁	l ₂	d ₂	z	Item #
0400	4.0	57	11	6	3	E547 0400
0500	5.0	57	13	6	3	E547 0500
0600	6.0	57	13	6	3	E547 0600
0800	8.0	63	19	8	3	E547 0800
1000	10.0	72	22	10	4	E547 1000
1200	12.0	83	26	12	4	E547 1200
1600	16.0	92	32	16	4	E547 1600
2000	20.0	104	38	20	4	E547 2000

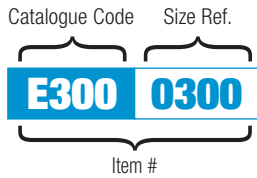
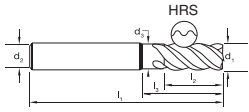


Catalogue Code	E547
Discount Group	B0210
Material	VHM
Surface Finish	AlCrN
Colour Ring & Application	Up to 1600N/mm²
Geometry	R30 NR
Shank Form (DIN 6535)	HA
Shank Tolerance	h6

Endmills Carbide, Regular, 3-6 Flute, R45-HRS



- VHM-ULTRA grade of carbide for high performance
- For roughing applications
- HRS geometry allows for heavy cuts in short & long chipping materials
- Suitable for materials up to 1600 N/mm²
- AlCrN for longer tool life



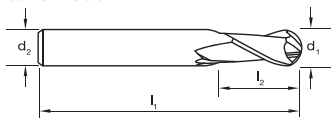
Catalogue Code	E549
Discount Group	B0210
Material	VHM-ULTRA
Surface Finish	AlCrN
Colour Ring & Application	HARMONY
Geometry	R45 HRS
Shank Form (DIN 6535)	HA
Shank Tolerance	h6

Size Ref.	d ₁	l ₁	l ₂	l ₃	d ₂	d ₃	z	Item #
0400	4.0	57	11	28	6	3.7	3	E549 0400
0500	5.0	57	13	28.5	6	4.6	4	E549 0500
0600	6.0	57	16	21	6	5.5	4	E549 0600
0800	8.0	63	19	27	8	7.5	4	E549 0800
1000	10.0	72	22	32	10	9.5	4	E549 1000
1200	12.0	83	26	38	12	11.2	4	E549 1200
1600	16.0	92	32	44	16	15.0	5	E549 1600
2000	20.0	104	38	54	20	19.0	6	E549 2000

Slot Drills Carbide, Regular, Ballnose, 2 Flute, R30



- For profile & contour milling applications
- Suitable for materials up to 1600 N/mm²
- AlCrN for longer tool life



Catalogue Code Size Ref.



Size Ref.	d ₁	l ₁	l ₂	d ₂	z
DIN 6527L					
0100	1.0	38	2	3	2
0150	1.5	38	3	3	2
0200	2.0	57	6	6	2
0250	2.5	57	7	6	2
0300	3.0	57	7	6	2
0350	3.5	57	7	6	2
0400	4.0	57	8	6	2
0450	4.5	57	8	6	2
0500	5.0	57	10	6	2
0600	6.0	57	10	6	2
0800	8.0	63	16	8	2
1000	10.0	72	19	10	2
1200	12.0	83	22	12	2
1600	16.0	92	26	16	2
2000	20.0	104	32	20	2
SUTTON STD					
0159	1/16	1-1/2	3/16	1/8	2
0238	3/32	1-1/2	5/16	1/8	2
0318	1/8	1-1/2	1/2	1/8	2
0397	5/32	2	9/16	3/16	2
0476	3/16	2	5/8	3/16	2
0635	1/4	2-1/2	3/4	1/4	2
0794	5/16	2-1/2	13/16	5/16	2
0953	3/8	2-1/2	7/8	3/8	2
1111	7/16	2-3/4	1	7/16	2
1270	1/2	3	1	1/2	2
1588	5/8	3-1/2	1-1/4	5/8	2
1905	3/4	4	1-1/2	3/4	2



Catalogue Code	E551	E553
Discount Group	B0208	B0210
Material	VHM	VHM
Surface Finish	Brt	AlCrN
Colour Ring & Application	Up to 1600N/mm ²	Up to 1600N/mm ²
Geometry	R30	R30
Shank Form (DIN 6535)	HA	HA
Shank Tolerance	h6	h6

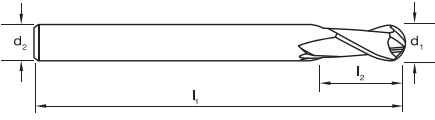
Item #	Item #
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•	•
E551 0200	E553 0200
•	•
E551 0300	E553 0300
•	•
E551 0400	E553 0400
•	•
E551 0500	E553 0500
E551 0600	E553 0600
E551 0800	E553 0800
E551 1000	E553 1000
E551 1200	E553 1200
•	•
•	•
E311	E314
E311 0159	E314 0159
E311 0238	E314 0238
E311 0318	E314 0318
E311 0397	E314 0397
E311 0476	E314 0476
E311 0635	E314 0635
E311 0794	E314 0794
E311 0953	E314 0953
E311 1111	E314 1111
E311 1270	E314 1270
E311 1588	E314 1588
E311 1905	E314 1905

• Available on request as special manufacture. Subject to lead time.
* Not available once current stock is depleted.

Slot Drills Carbide, Long Reach, Ballnose, 2 Flute, R30



- VHM-ULTRA grade of carbide for high performance
- For profile & contour milling in long reach applications
- Suitable for materials up to 1600 N/mm²
- AlCrN for longer tool life



Catalogue Code Size Ref.

E300 **0300**

Item #



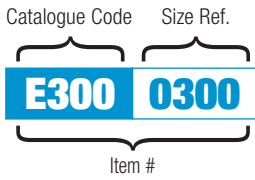
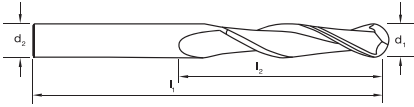
Catalogue Code	E555
Discount Group	B0210
Material	VHM-ULTRA
Surface Finish	AlCrN
Colour Ring & Application	Up to 1600N/mm²
Geometry	R30
Shank Form (DIN 6535)	HA
Shank Tolerance	h6

Size Ref.	d ₁	l ₁	l ₂	d ₂	z	Item #
0200	2.0	50	5	6	2	E555 0200
0300	3.0	60	8	6	2	E555 0300
0400	4.0	70	8	6	2	E555 0400
0500	5.0	80	10	6	2	E555 0500
0600	6.0	90	12	6	2	E555 0600
0800	8.0	100	14	8	2	E555 0800
1000	10.0	100	18	10	2	E555 1000
1200	12.0	110	22	12	2	E555 1200

Slot Drills Carbide, Extra Long, Ballnose, 2 Flute, R30



- For profile & contour milling in extra long reach applications
- Suitable for materials up to 1300 N/mm²



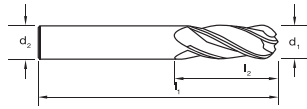
Catalogue Code	E315
Discount Group	B0208
Material	VHM
Surface Finish	Brt
Colour Ring & Application	Up to 1300N/mm²
Geometry	R30
Shank Form (DIN 6535)	HA
Shank Tolerance	h6

Size Ref.	d ₁	l ₁	l ₂	d ₂	z	Item #
0300	3.0	76	25	3	2	E315 0300
0400	4.0	76	28	4	2	E315 0400
0500	5.0	76	32	5	2	E315 0500
0600	6.0	102	38	6	2	E315 0600
0800	8.0	102	42	8	2	E315 0800
1000	10.0	102	45	10	2	E315 1000
1200	12.0	153	76	12	2	E315 1200
1400	14.0	153	76	14	2	E315 1400
1600	16.0	153	76	16	2	E315 1600
1800	18.0	153	76	18	2	E315 1800
2000	20.0	153	76	20	2	E315 2000

Endmills Carbide, Regular, Ballnose, 4 Flute, R30



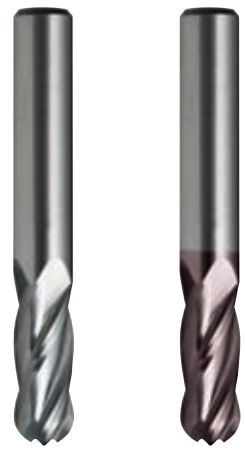
- For profile & contour milling applications
- Suitable for materials up to 1600 N/mm²
- TiAlN for longer tool life



Catalogue Code Size Ref.



Size Ref.	d ₁	l ₁	l ₂	d ₂	z
0100	1.0	38	4	3	4
0150	1.5	38	4.5	3	4
0200	2.0	38	6	3	4
0250	2.5	38	9.5	3	4
0300	3.0	38	12	3	4
0350	3.5	50	12	4	4
0400	4.0	50	14	4	4
0450	4.5	50	16	6	4
0500	5.0	50	16	6	4
0600	6.0	50	19	6	4
0700	7.0	63	19	8	4
0800	8.0	63	20	8	4
0900	9.0	75	22	10	4
1000	10.0	75	22	10	4
1100	11.0	75	25	12	4
1200	12.0	75	25	12	4
1400	14.0	89	32	14	4
1600	16.0	89	32	16	4
1800	18.0	100	38	18	4
2000	20.0	100	38	20	4
2500	25.0	100	38	25	4



Catalogue Code	E606	E607
Discount Group	B0212	B0214
Material	VHM	VHM
Surface Finish	Brt	TiAlN
Colour Ring & Application	Up to 1600N/mm²	Up to 1600N/mm²
Geometry	R30	R30
Shank Form (DIN 6535)	HA	HA
Shank Tolerance	h6	h6

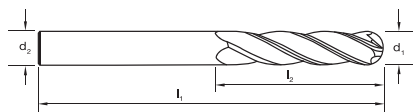
Item #	Item #
•	E607 0100
•	E607 0150
•	E607 0200
•	E607 0250
•	E607 0300
•	E607 0350
•	E607 0400
•	E607 0450
•	E607 0500
•	E607 0600
•	•
•	E607 0800
•	•
•	E607 1000
•	E607 1100
•	E607 1200
•	E607 1400
•	E607 1600
•	E607 1800
•	E607 2000
•	E607 2500

• Available on request as special manufacture. Subject to lead time.

Endmills Carbide, Extra Long, Ballnose, 4 Flute, R30



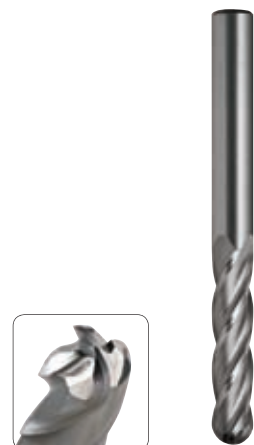
- For profile & contour milling in extra long reach applications
- Suitable for materials up to 1300 N/mm²
- Minimal deflection due to strong/larger core



Catalogue Code Size Ref.



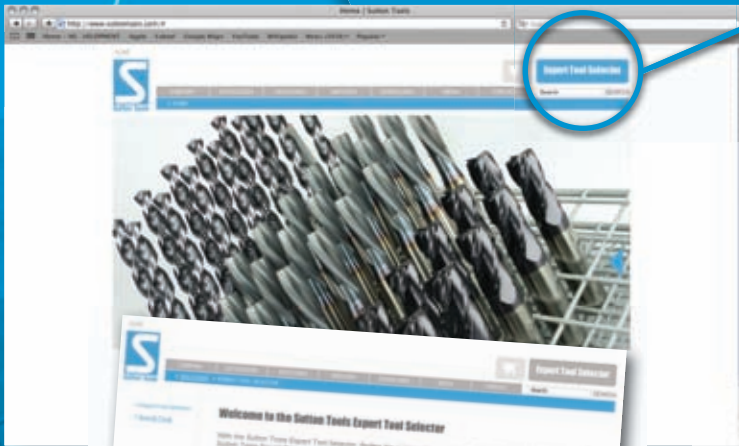
Size Ref.	d ₁	l ₁	l ₂	d ₂	z	Item #
0300	3.0	76	25	3	4	E320 0300
0400	4.0	76	28	4	4	E320 0400
0500	5.0	76	32	5	4	E320 0500
0600	6.0	102	38	6	4	E320 0600
0800	8.0	102	42	8	4	E320 0800
1000	10.0	102	45	10	4	E320 1000
1200	12.0	153	76	12	4	E320 1200
1400	14.0	153	76	14	4	E320 1400
1600	16.0	153	76	16	4	E320 1600
1800	18.0	153	76	18	4	E320 1800
2000	20.0	153	76	20	4	E320 2000



Catalogue Code	E320
Discount Group	B0208
Material	VHM
Surface Finish	Brt
Colour Ring & Application	Up to 1300N/mm²
Geometry	R30
Shank Form (DIN 6535)	HA
Shank Tolerance	h6

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