



A-BRAND[®] LINE UP

A-DRILLS • A-TAPS • A-ENDMILLS

 **DGI**

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A-Brand

Innovation for shaping the future of global manufacturing

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The A Brand Story

The joy of delivering new values

The A Brand represents a new evolution in cutting tool technology. With a commitment to only the best, the A Brand emanates innovations essential for shaping the future of global manufacturing. The A Brand is not only a premium tooling brand, it also represents the quality assurance OSG guarantees to each and every customer. The A Brand is composed of OSG's latest high performance threading, drilling and milling tool innovations. Developed with attention to the finest details, manufacturers will experience the level of quality, reliability and satisfaction that can only be delivered by the A Brand tooling master class.

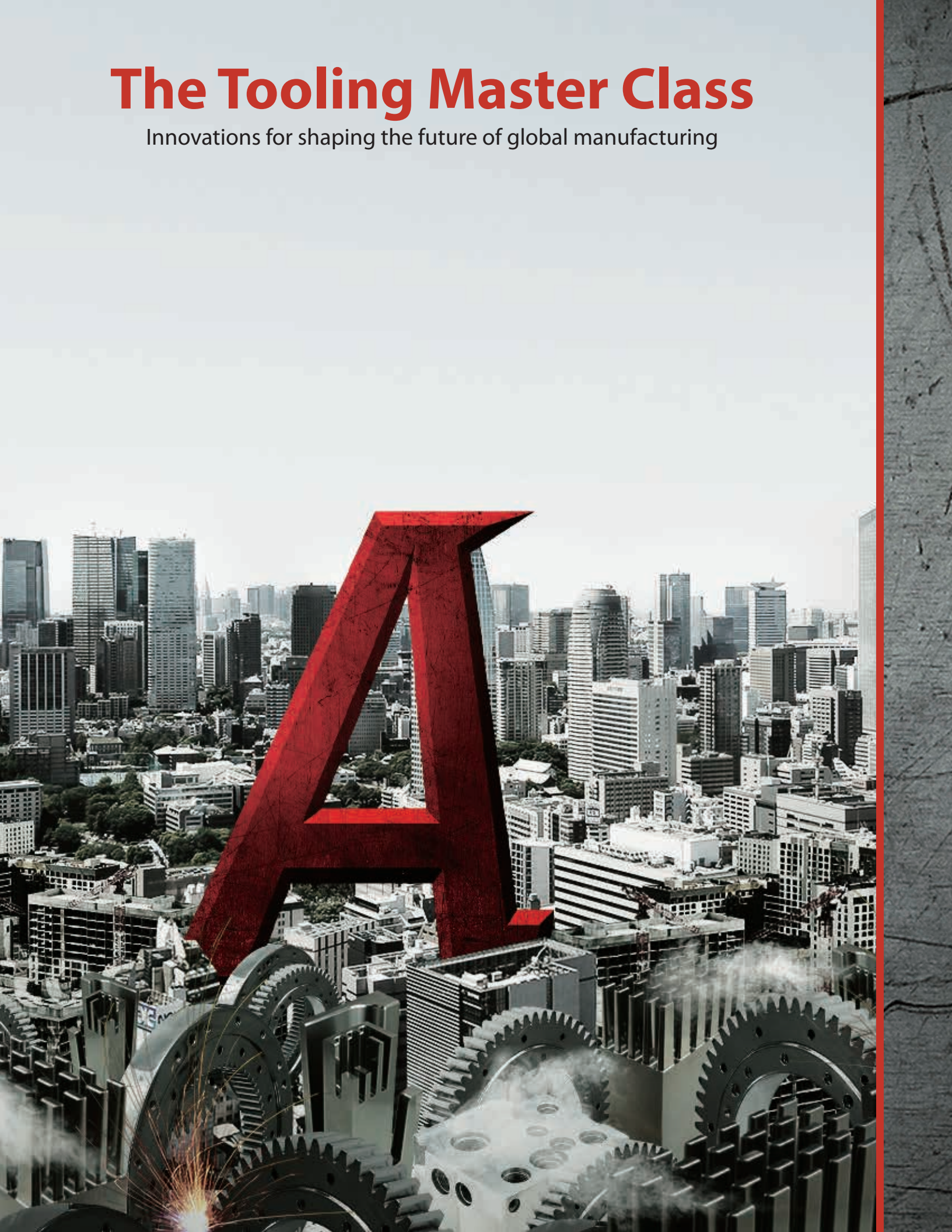
Advanced tool qualities have been incorporated into the A Brand products, including a versatility that enables a wide range of processing in different work materials, an excellent capability to perform difficult processing tasks, and high efficiency that leads to shortened production time and cost savings. Expectations have risen that the A Brand will bring innovations into the manufacturing field, and pass on OSG's technologies from today to the future. To better understand the concept of the A Brand, interviews were conducted with OSG experts who have devoted their manufacturing careers to the development of A Brand products. They spoke enthusiastically about how their passions underpinned the development process.

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The Tooling Master Class

Innovations for shaping the future of global manufacturing



The A Brand *The Tooling Master Class*

A-TAP LINE-UP

The A Brand® is not only a premium tooling brand, it also represents the quality assurance OSG guarantees to each and every customer. You will experience a level of quality, reliability and satisfaction that can only be delivered by the A Brand® tooling master class.

Advanced performance A-Taps are engineered to meet the highest demands and expectations in a wide range of applications.

A-TAP



A Brand® AT-1 *Advanced Performance One Pass Thread Mill*



A Brand® A-SFT *Advanced Performance Spiral Flute Taps*



A Brand® A-POT *Advanced Performance Spiral Point Taps*



A Brand® AT-1

Features & Benefits



**Unequal Spacing/
Variable Lead Flute**
for reduced vibration

**Right-Hand Cut & Left-
Hand Helix
Geometry**
increases tool stability

EgiAs Coating
for exceptional wear
resistance

**Ultra-Fine Grain
Carbide**
for high wear resistance
and toughness

A Brand® AT-1

OSG's newest thread mill, the A Brand® AT-1, is designed with a left-hand helix and starts cutting from the shank side, reducing deflection, preventing bending, thus allowing for 1-pass cutting and reducing overall cutting time. Along with OSG's patented EgiAs coating, it also has unequal spacing/variable lead flute which reduces vibration for better thread quality.



Features & Benefits

- OSG's EgiAs coating for exceptional wear resistance and longer tool life.
- Right-hand cut and left-hand helix geometry to prevent bending/deflection.
- Unequal spacing/variable lead flute for reduced vibration.

List Numbers

16620 - A Brand® AT-1 (Inch)
16625 - A Brand® AT-1 (Metric)
16630 - A Brand® AT-1 (NPT)
16631 - A Brand® AT-1 (NPTF)

Size Range

1/4"-1"
M6-M24
1/16"-2"
1/16"-2"

ISO	Work Material	Recommended
P	Low Carbon Steel : 1010, 1018	⊙
P	Medium Carbon Steel : 1035, 1045	⊙
P	High Carbon Steel : 1065	⊙
P	Alloy Steels : 4140, 4340	⊙
P	Die Steels	
M	Stainless Steels : 300	⊙
M	Stainless Steels : 400	○
M	Stainless Steels : 17-4PH	○
K	Cast Iron	⊙
N	Aluminum : 6061, 7075	⊙
N	Aluminum : Casting	⊙
S	Nickel Alloy : Inconel	
S	Titanium : 6AL4V (30HRC)	
H	Hardened Steels : ~35 HRC	⊙
H	Hardened Steels : 35-45 HRC	⊙
H	Hardened Steels : 45-50 HRC	
H	Hardened Steels : 50-70 HRC	

○ good ⊙ best

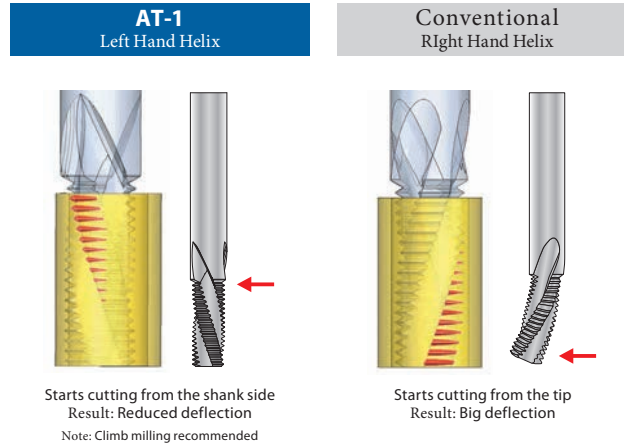
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1-Pass Cutting

Left Hand Helix Reduces Deflection for 1-Pass Cutting

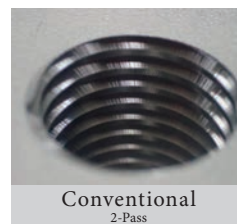
The AT-1 is designed with a left hand helix and starts cutting from the shank side, reducing deflection, preventing bending, thus allowing for 1-pass cutting and reducing overall cutting time.



Superior Internal Threads

Superior Threads Made in Just 1-Pass

Tool	AT-1 (List 16620)	Conventional
Size	Ø19.7mm • 54mm Length of Cut	
Thread Size	M24 x 3	
Work Material	304 Stainless Steel	
Tapping Depth	45mm (full depth)	
Cutting Speed	131 SFM (646 RPM)	
Feed	5.9 IPM (0.0016 IPT)	
Number of Passes	1	2
Coolant	Water-Soluble	
Machine	Horizontal Machining Center	



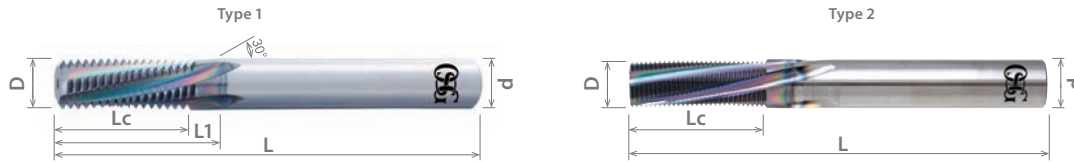
A Brand AT-1

Advanced Performance Taps for a Variety of Materials

List 16625

SPEED FEED P21	CARBIDE	EgiAs	11°	SHANK h6
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AT-1, Helical Flute



Units: Inch

Size	Threads Per Inch	Cutter Diameter	Overall Length	Length of Cut	Neck Length	Shank Diameter	No. of Flutes	Type	EDP Number
		D	L	Lc	L1	d			EgiAs
1/4	20	0.179	3.000	0.600	0.700	1/4	4	1	OSG1662500017
	28			0.607	0.680				OSG1662500117
5/16	18	0.224		0.778	0.889				OSG1662500317
	24			0.750	0.833				OSG1662500417
3/8	16	0.264	3.500	0.875	1.000	5/16	5	1	OSG1662500617
	24			0.958	OSG1662500717				
1/2	13	0.343		1.154	1.308	3/8			OSG1662501217
	20			1.100	1.200				OSG1662501317
5/8	11	0.421	6.000	1.454	1.636	3/4	6	1	OSG1662501817
	18			1.389	1.500				OSG1662501917
3/4	10	0.461		1.700	1.900				OSG1662502117
	16			1.626	1.750				OSG1662502217
1	8	0.736	2.250	2.500	3/4	OSG1662502717			
	12		2.167	2.334		OSG1662502917			

Packed: 1 pc.
Available in EgiAs coating only.
For internal threads only.



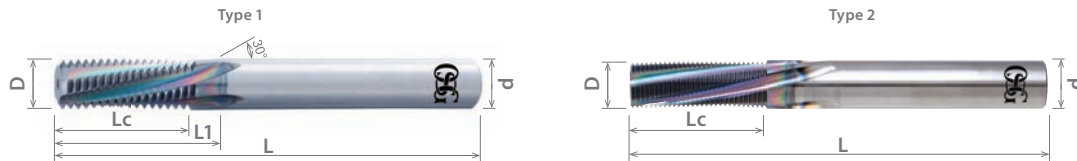
Work Material																	
List No.	P					M			K	N		S	H				
	Carbon Steels			Alloy Steels	Die Steels	Stainless Steels			Cast Iron	Aluminum		Nickel Alloy	Titanium	Hardened Steels			
	Low	Med.	High			300	400	17-4 PH		6061 7075	Casting	Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC	45-50 HRC	50-70 HRC
16625	⊙	⊙	⊙	⊙		⊙	○	○	⊙	⊙	⊙		⊙	⊙			

○ good ⊙ best

List 16620

AT-1, Helical Flute

SPEED FEED P21	CARBIDE	EgiAs	11°	SHANK h6
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Units: mm

Size	Pitch	Cutter Diameter	Overall Length	Length of Cut	Neck Length	Shank Diameter	No. of Flutes	Type	EDP Number
		D	L	Lc	L1	d			EgiAs
M6	1.00	4.50	75.00	14.00	16.00	6.00	4	1	OSG8331001
	0.75			13.50					OSG8331000
M8	1.25	5.70	75.00	18.75	-	8.00	4	2	OSG8331004
	1.00			18.00	-				OSG8331003
M10	1.50	7.70	85.00	24.00	-	10.00	5	2	OSG8331007
	1.25			22.50	-				OSG8331006
M12	1.75	9.70	100.00	28.00	-	16.00	5	2	OSG8331011
M16	2.00	11.70	135.00	36.00	-	16.00	5	2	OSG8331019
M20	2.50	13.70	135.00	45.00	50.00	16.00	5	1	OSG8331022

Packed: 1 pc.
Available in EgiAs coating only.
For internal threads only.



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Work Material																	
List No.	P				Die Steels	M			K Cast Iron	N		S		H			
	Carbon Steels			Alloy Steels		Stainless Steels				Aluminum		Nickel Alloy	Titanium	Hardened Steels			
	Low	Med.	High			300	400	17-4 PH		6061 7075	Casting			Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC
16620	⊙	⊙	⊙	⊙		⊙	○	○	⊙	⊙	⊙			⊙	⊙		

○ good ⊙ best

A Brand® A-SFT

Advanced Performance Taps for a Variety of Materials

Sharp Cutting Edge

stabilizes chip shape

Variable Lead Flute

accelerates chip evacuation



A Brand® A-SFT

The A Brand® A-SFT is an all-purpose tap series designed to excel in a wide variety of materials. Now available in DIN length, long shank, and coolant-through; the opportunities are endless. Made from powdered metal HSS and featuring OSG's proprietary V coating to achieve excellent wear resistance. A-SFT, with a unique variable helix flute design, reduces cutting forces and encourages stable chip evacuation.



Features & Benefits

- **OSG's proprietary V coating** for prolonged tool life.
- **Powder metallurgy HSS** for increased wear resistance.
- **Sharp cutting edge** to stabilize chip shape.
- **Variable helix flute** to accelerate and control chip evacuation.

List Numbers

16500 - A Brand® A-SFT (Metric)
 16505 - A Brand® A-SFT (Inch)
 16520 - A Brand® A-LT-SFT (Metric, Long Shank)
 16525 - A Brand® A-LT-SFT (Inch, Long Shank)
 16540 - A Brand® A-OIL-SFT (Metric, Coolant-Through)
 16545 - A Brand® A-OIL-SFT (Inch, Coolant-Through)

Size Range

M1.4-M56
 No. 4-2"
 M3-M24
 No. 4-1"
 M6-M56
 1/4"-2"

ISO	Work Material	Recommended
P	Low Carbon Steel : 1010, 1018	⊙
P	Medium Carbon Steel : 1035, 1045	⊙
P	High Carbon Steel : 1065	⊙
P	Alloy Steels : 4140, 4340	⊙
P	Die Steels	○
M	Stainless Steels : 300	⊙
M	Stainless Steels : 400	⊙
M	Stainless Steels : 17-4PH	⊙
K	Cast Iron	○
N	Aluminum : 6061, 7075	○
N	Aluminum : Casting	○
S	Nickel Alloy : Inconel	
S	Titanium : 6AL4V (30HRC)	
H	Hardened Steels : ~35 HRC	⊙
H	Hardened Steels : 35-45 HRC	
H	Hardened Steels : 45-50 HRC	
H	Hardened Steels : 50-70 HRC	

○ good ⊙ best

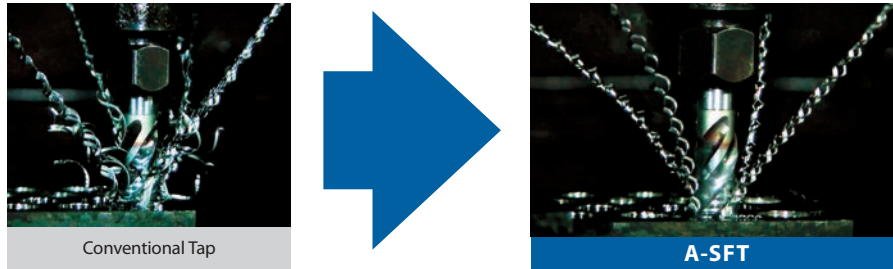
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Chip Evacuation

Excellent Chip Evacuation in Various Materials

Most tapping troubles are caused by unstable chip evacuation. The A-Tap series resolves such troubles and is applicable to a wide range of work materials and cutting conditions.



Large Hole Threading

1045 Carbon Steel and 304 Stainless Steel

The use of water-soluble coolant is possible even in difficult to machine materials such as carbon steels and stainless steels, which could not be achieved with conventional taps.

Tool	A-SFT	Conventional
Drill Size	ØM36 x 4	
Work Material	1045 Carbon Steel 304 Stainless Steel	
Pre-Drilled Hole	Ø32mm x 70mm (Blind)	
Tapping Depth	54mm (1.5D)	
Cutting Speed	23 SFM (62 RPM)	
Coolant	Water-soluble Chlorine-Free (20%)	
Machine	Horizontal Machining Center	

Visual Reference of Internal Threads.

(Results may vary based on machining conditions.)



A Brand A-SFT

Advanced Performance Taps for a Variety of Materials

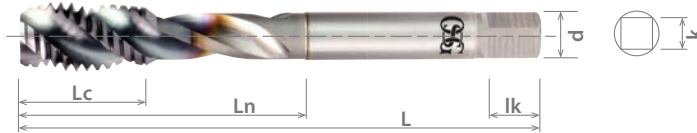
VC10

V

Var.:

List 16505

A-SFT, DIN Overall Length, Modified Bottom (2P-3P), Bottom (1.5P-2P)



Units: Inch

Tap Size	Thread Limit	No. of Flutes	EDP Number		DIN Overall Length L	Thread Length Lc	Neck Length Ln	Shank Dia. d	Square Width k	Square Length lk	
			Bottom (1.5P)	Mod Bottom (2.5P)							
			V	V							
4 - 40 UNC	H2	2	OSG1650508908	OSG1650500108	2.205	0.196	0.704	0.141	0.110	0.188	
4 - 48 UNF			OSG1650509008	OSG1650500208							
5 - 40 UNC			OSG1650509108	OSG1650500308		0.200					0.708
5 - 44 UNF			OSG1650509208	OSG1650500408							
6 - 32 UNC	H2	3	OSG1650509308	OSG1650513108	2.205	0.248	0.783	0.141	0.110	0.188	
	H3	2	-	OSG1650500608							
			OSG1650500508								
6 - 40 UNF	H2	3	OSG1650509508	-	2.205	0.248	0.783	0.141	0.110	0.188	
		2	-	OSG1650500708							
		3	OSG1650509608	-							
8 - 32 UNC	H2	2	-	OSG1650500908	2.480	0.251	0.826	0.168	0.131	0.250	
	H3	2	-	OSG1650500808							
8 - 36 UNF	H2	3	OSG1650509808	-	2.480	0.251	0.826	0.168	0.131		
		2	-	OSG1650501008							
10 - 24 UNC	H3	3	OSG1650509908	-	2.480	0.251	0.826	0.168	0.131		
		2	-	OSG1650501108							
10 - 32 UNF	H2	3	OSG1650510008	-	2.756	0.326	1.059	0.194	0.152	0.250	
	H2	2	-	OSG1650501308							
			-	OSG1650501208	2.756	0.326	0.976	0.194	0.152		
			-	OSG1650501408							
12 - 24 UNC	H3	3	OSG1650510208	-	2.756	0.326	1.059	0.194	0.152	0.250	
		2	-	OSG1650501408							
		3	OSG1650510308	-							
12 - 28 UNF	H3	2	-	OSG1650501508	2.756	0.326	1.059	0.194	0.152		
		2	-	OSG1650505608							
		3	OSG1650510608	-							
1/4 - 20 UNC	H3	2	-	OSG1650501708	3.150	0.397	1.177	0.255	0.191	0.313	
	H5	2	-	OSG1650501608							
1/4 - 28 UNF	H3	3	OSG1650510908	-	3.150	0.397	1.177	0.255	0.191	0.313	
	H4	3	OSG1650510808	-							
	H3	2	-	OSG1650501908	3.150	0.397	1.177	0.255	0.191	0.313	
	H4		-	OSG1650501808							
1/4 - 32 UNEF	H3	2	-	OSG1650505708	3.543	0.444	1.377	0.318	0.238	0.375	
5/16 - 18 UNC	H5	2	OSG1650511108	OSG1650502108							
			-	OSG1650502008	3.543	0.444	1.377	0.318	0.238	0.375	
5/16 - 24 UNF	H3	2	OSG1650511308	OSG1650502308							
	H4	2	-	OSG1650502208	3.150	0.444	1.377	0.318	0.238	0.375	
5/16 - 32 UNEF	H3	2	-	OSG1650505808							
3/8 - 16 UNC	H5	3	OSG1650511608	OSG1650502508	3.937	0.500	1.535	0.310	0.286	0.438	
	H3		3	OSG1650511808							OSG1650502708
3/8 - 24 UNF	H4	3	-	OSG1650502608	3.543	0.500	1.377	0.310	0.286	0.438	
	H3	3	-	OSG1650505908							
7/16 - 14 UNC	H3	3	OSG1650512108	OSG1650502908	3.937	0.570	1.712	0.323	0.242	0.406	
	H5		3	-							OSG1650502808
7/16 - 20 UNF	H3	3	OSG1650512308	OSG1650503108	3.937	0.570	1.712	0.323	0.242	0.406	
	H5	3	-	OSG1650503008							
7/16 - 28 UNEF	H4	3	-	OSG1650506008	3.543						

Packed: 1 pc.
Available V coating only.

ATP

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List 16505 (Continued)

A-SFT, DIN Overall Length, Modified Bottom (2P-3P), Bottom (1.5P-2P)



Units: Inch

Tap Size	Thread Limit	No. of Flutes	EDP Number		DIN Overall Length	Thread Length	Neck Length	Shank Dia.	Square Width	Square Length						
			Bottom (1.5P)	Mod Bottom (2.5P)												
			V	V												
1/2 - 13 UNC	H3	3	OSG1650512608	OSG1650503308	4.331	0.614	1.933	0.367	0.275	0.438						
	H5		OSG1650512708	OSG1650503208												
1/2 - 20 UNF	H3		OSG1650512808	OSG1650503508	3.937											
	H5		-	OSG1650503408												
1/2 - 28 UNEF	H4		-	OSG1650506108												
9/16 - 12 UNC	H3		-	OSG1650503708	4.331											
9/16 - 18 UNF	H3		-	OSG1650503908	3.937											
5/8-11 UNC	H3		-	OSG1650504108	4.331											
5/8 - 18 UNF	H3		-	OSG1650504308	3.937											
3/4 - 10 UNC	H3		4	-	OSG1650504508						4.921	1.000	2.433	0.590	0.442	0.688
3/4 - 16 UNF	H3			-	OSG1650504708						4.331					
7/8 - 9 UNC	H4			-	OSG1650504908						5.512					
7/8 - 14 UNF	H4	-		OSG1650505108	4.921											
1 - 8 UNC	H4	-		OSG1650505308	6.299	1.251	3.011	0.800	0.600	0.813						
	H4	-		OSG1650505508	6.299											

Packed: 1 pc.
Available V coating only.



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List No.	Work Material																
	P					M			K	N		S		H			
	Carbon Steels			Alloy Steels	Die Steels	Stainless Steels			Cast Iron	Aluminum		Nickel Alloy	Titanium	Hardened Steels			
	Low	Med.	High			300	400	17-4 PH		6061 7075	Casting			Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC
16505	⊙	⊙	⊙	⊙	○	⊙	⊙	⊙	○	○	○			⊙			
SFM	80-120	80-120	80-120	35-50	20-40	15-35	15-35	15-25	50-80	70-120	70-120			30-55			

○ good ⊙ best

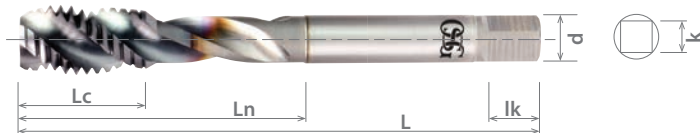
A Brand A-SFT

Advanced Performance Taps for a Variety of Materials



List 16500

A-SFT, DIN Overall Length, Modified Bottom (2P-3P), Bottom (1.5P-2P)



Units: mm

Tap Size	Thread Limit	No. of Flutes	EDP Number		DIN Overall Length	Thread Length	Neck Length	Shank Dia.	Square Width	Square Length
			Bottom (1.5P)	Mod Bottom (2.5P)						
			V	V						
M1.4 x 0.3	D2	2	-	OSG1650003008	40.00	6.00	11.50	3.581	2.79	4.80
M1.6 x 0.35	D3		-	OSG1650003108		7.00	13.60			
M1.7 x 0.35			-	OSG1650003208		8.00	13.40			
M2 x 0.4	D2		-	OSG1650003408	45.00	3.30	10.00			
M2 x 0.25			-	OSG1650003308						
M2.2 x 0.45	D3		-	OSG1650003608						
M2.2 x 0.25	D2		-	OSG1650003508						
M2.3 x 0.4	D3		-	OSG1650003708	50.00	3.20	11.90			
M2.5 x 0.45			-	OSG1650003908						
M2.5 x 0.35			-	OSG1650003808						
M2.6 x 0.45			-	OSG1650004008						
M3 x 0.5	D2		OSG1650009808	OSG1650000108	56.00	4.00	18.00			
M3 x 0.35		-	OSG1650009708	-						
M3.5 x 0.6		D3	-	OSG1650004108				56.00	4.80	20.00
M3.5 x 0.35			-	OSG1650004208						
M4 x 0.7	D4	OSG1650010208	OSG1650000308	63.00	5.60	20.90	4.267	3.33		
M4 x 0.5	D3	OSG1650010108	OSG1650000208							
M4.5 x 0.75	D4	-	OSG1650004508	70.00	6.10	24.90	4.928	3.86	6.40	
M4.5 x 0.5	D3	-	OSG1650004408							
M5 x 0.8	D4	OSG1650010608	OSG1650000508							
M5 x 0.5	D3	OSG1650010508	OSG1650000408							
M5.5 x 0.5		-	OSG1650004608							
M6 x 1.0	D5	OSG1650011008	OSG1650000808	80.00	7.30	30.10	5.588	4.19	7.10	
M6 x 0.75	D4	OSG1650010908	OSG1650000708							
M6 x 0.5	D3	-	OSG1650000608							
M7 x 1.0	D5	-	OSG1650004808							
M7 x 0.75	D4	-	OSG1650004708	80.00	8.00	29.90	6.477	4.85	7.90	
M8 x 1.25	D5	OSG1650011508	OSG1650001008							
M8 x 1.0		OSG1650011408	OSG1650000908							
M8 x 0.75	D4	-	OSG1650004908							80.00
M9 x 1.25	D5	-	OSG1650005208	90.00	10.00	35.00				
M9 x 1.0		-	OSG1650005108							
M9 x 0.75		D4	-				OSG1650005008			
M10 x 1.5	D6	OSG1650012208	OSG1650001308	100.00	12.00	39.00	9.677	7.26	11.10	
M10 x 1.25	D5	OSG1650012108	OSG1650001208							
M10 x 1.0	D4	-	OSG1650001108	90.00	10.00	35.00				
M10 X 0.75		-	OSG1650005308							
M11 x 1.5		D6	-				OSG1650005608			
M11 x 1.25	D5	-	-	100.00	12.00	43.50	8.204	6.15	10.30	
M11 X 1.0		-	OSG1650005508							
M11 x 0.75		D4	-							OSG1650005408
M12 x 1.75	D6	OSG1650013008	OSG1650001708	110.00	14.00	49.10	9.322	6.98	11.10	
M12 x 1.5		OSG1650012908	OSG1650001608	100.00						
M14 x 2.0	D7	-	OSG1650001908	110.00	16.00	50.10	10.897	8.18	12.70	
M14 x 1.5	D6	-	OSG1650001808	100.00						
M16 x 2.0	D7	-	OSG1650002108	110.00						

Packed: 1 pc.
Available V coating only.



List 16500 (Continued)



A-SFT, DIN Overall Length, Modified Bottom (2P-3P), Bottom (1.5P-2P)

Units: mm

Tap Size	Thread Limit	No. of Flutes	EDP Number		DIN Overall Length	Thread Length	Neck Length	Shank Dia.	Square Width	Square Length
			Bottom (1.5P)	Mod Bottom (2.5P)						
			V	V						
M18 x 2.5	D7	4	-	OSG1650002308	125.00	25.00	55.00	13.767	10.31	15.90
M18 x 1.5	D6		-	OSG1650002208	110.00	16.00				
M20 x 1.5	D6		-	OSG1650002408	125.00	16.00	61.80	16.561	12.42	17.50

Packed: 1 pc.
Available V coating only.



Work Material																		
List No.	P				Die Steels	M			K	N		S		H				
	Carbon Steels			Alloy Steels		Stainless Steels				Cast Iron	Aluminum		Nickel Alloy	Titanium	Hardened Steels			
	Low	Med.	High			300	400	17-4 PH			6061 7075	Casting			Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC
16500	⊙	⊙	⊙	⊙	○	⊙	⊙	⊙	○	○	○			⊙				
SFM	80-120	80-120	80-120	35-50	20-40	15-35	15-35	15-25	50-80	70-120	70-120			30-55				

○ good ⊙ best

A Brand® A-POT

Features & Benefits

V Coating

for high wear resistance

Powder Metallurgy HSS

for high wear resistance and toughness



A Brand® A-POT

The A Brand® A-POT is an all-purpose tap series designed to excel in a wide variety of materials. Now available in DIN length, long shank, and coolant-through the opportunities are endless. Made from powdered metal HSS and featuring OSG's patented V coating to achieve excellent wear resistance. The A-POT series has unique geometry that enables greater chip control to produce tightly compacted and controlled chips for easy evacuation from the hole.



Features & Benefits

- OSG's proprietary V coating to improve wear resistance and extend tool life.
- Powder metallurgy HSS for increased wear resistance.
- Sharp cutting edge that stabilizes chip shape.

List Numbers

Size Range

16510 - A Brand® A-POT (Metric)	M1.4-M24
16515 - A Brand® A-POT (Inch)	No.2-1"
16530 - A Brand® A-LT-POT (Metric, Long Shank)	M3-M24
16535 - A Brand® A-LT-POT (Inch, Long Shank)	No. 4-1"
16550 - A Brand® A-OIL-POT (Metric, Coolant-Through)	M6-M24
16555 - A Brand® A-OIL-POT (Inch, Coolant-Through)	1/4"-1"

ISO	Work Material	Recommended
P	Low Carbon Steel : 1010, 1018	⊙
P	Medium Carbon Steel : 1035, 1045	⊙
P	High Carbon Steel : 1065	⊙
P	Alloy Steels : 4140, 4340	⊙
P	Die Steels	○
M	Stainless Steels : 300	⊙
M	Stainless Steels : 400	⊙
M	Stainless Steels : 17-4PH	⊙
K	Cast Iron	○
N	Aluminum : 6061, 7075	○
N	Aluminum : Casting	○
S	Nickel Alloy : Inconel	
S	Titanium : 6AL4V (30HRC)	
H	Hardened Steels : ~35 HRC	⊙
H	Hardened Steels : 35-45 HRC	
H	Hardened Steels : 45-50 HRC	
H	Hardened Steels : 50-70 HRC	

○ good ⊙ best

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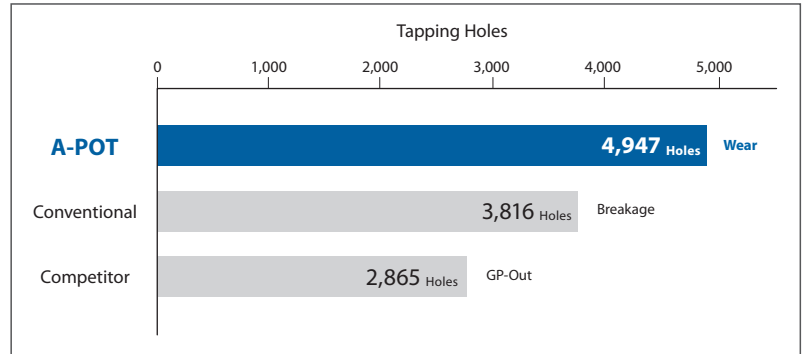


Maximize the Performance of Your Machine

Carbon Steel (1045)

The A-POT greatly outperformed the competitor and conventional taps.

Tool	A-POT	Conventional	Competitor
Drill Size	ØM8 x 1.25		
Work Material	1050 Steel		
Pre-Drilled Hole	Ø6.8mm x 16mm (Through)		
Tapping Depth	16mm (2D)		
Cutting Speed	98 SFM (1,190 RPM)		
Coolant	Water-soluble Chlorine-Free (10%)		
Machine	Horizontal Machining Center (Synchronized)		

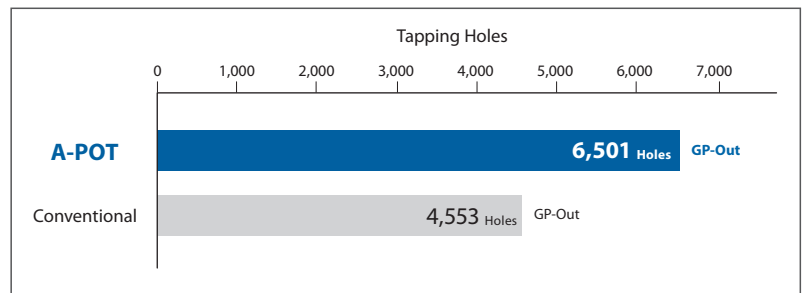


High Speed Machining

Carbon Steel (1045)

The A-POT achieved 1.5 times the durability compared to conventional taps.

Tool	A-POT	Conventional
Drill Size	ØM8 x 1.25	
Work Material	1045 Steel	
Pre-Drilled Hole	Ø6.8mm x 16mm (Through)	
Tapping Depth	16mm (2D)	
Cutting Speed	164 SFM (1,990 RPM)	
Coolant	Water-soluble Chlorine-Free (10%)	
Machine	Vertical Machining Center (Synchronized)	



A Brand® A-POT

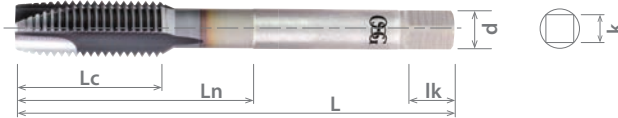
Advanced Performance Taps for a Variety of Materials

List 16515

VC10

V

A-POT, DIN Overall Length, Plug (3.5P-4.5P)



Units: Inch

Tap Size	Thread Limit	No. of Flutes	EDP Number	DIN Overall Length	Thread Length	Neck Length	Shank Dia.	Square Width	Square Length
			Plug (3.5P - 4.5P)						
			V	L	Lc	Ln	d	k	lk
4 - 40 UNC	H2	2	OSG1651500108	2.205	0.295	0.704	0.141	0.110	0.188
4 - 48 UNF			OSG1651500208						
5 - 40 UNC			OSG1651500308						
5 - 44 UNF			OSG1651500408						
6 - 32 UNC	H3	3	OSG1651500508	2.480	0.374	0.826	0.168	0.131	0.250
6 - 40 UNF	H2		OSG1651500708						
8 - 32 UNC	H3		OSG1651500808						
8 - 36 UNF	H2		OSG1651501008						
10 - 24 UNC	H3	3	OSG1651501108	2.756	0.492	0.976	0.194	0.152	0.281
10 - 32 UNF	H3		OSG1651501208						
12 - 24 UNC			OSG1651501408						
12 - 28 UNF			OSG1651501508						
1/4 - 20 UNC		H3	OSG1651501708	3.150	0.594	1.177	0.220	0.165	0.281
1/4 - 28 UNF	OSG1651501908								
5/16 - 18 UNC	OSG1651502108								
5/16 - 24 UNF	OSG1651502308								
3/8 - 16 UNC	H3	3	OSG1651502508	3.937	0.751	1.535	0.381	0.286	0.438
3/8 - 24 UNF	H3		OSG1651502708						
7/16 - 14 UNC	H3		OSG1651502908						
7/16 - 20 UNF	H3		OSG1651503108						
1/2 - 13 UNC	H3	3	OSG1651503308	4.331	0.921	1.354	0.367	0.275	0.438
1/2 - 20 UNF	H3		OSG1651503508						
9/16 - 12 UNC	H3		OSG1651503708						
9/16 - 18 UNF	H3		OSG1651503908						
5/8 - 11 UNC	H3	3	OSG1651504108	4.331	1.090	1.562	0.480	0.360	0.563
5/8 - 18 UNF	H3		OSG1651504308						
3/4 - 10 UNC	H3		OSG1651504508						
3/4 - 16 UNF	H3		OSG1651504708						
7/8 - 9 UNC	H4	3	OSG1651504908	5.512	1.334	1.885	0.697	0.523	0.750
7/8 - 14 UNF	H4		OSG1651505108						
1 - 8 UNC	H4		OSG1651505308						
1 - 12 UNF	H4		OSG1651505508						

Packed: 1 pc.
Available V coating only.



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List No.	Work Material																	
	P					M			K	N		S		H				
	Carbon Steels			Alloy Steels	Die Steels	Stainless Steels			Cast Iron	Aluminum		Nickel Alloy	Titanium	Hardened Steels				
Low	Med.	High	300			400	17-4 PH	6061 7075		Casting	Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC	45-50 HRC	50-70 HRC		
16515	⊙	⊙	⊙	⊙	○	⊙	⊙	⊙	○	○	○			⊙				
SFM	80-120	80-120	80-120	40-65	35-55	25-75	25-60	25-60	60-100	70-120	70-120			40-65				

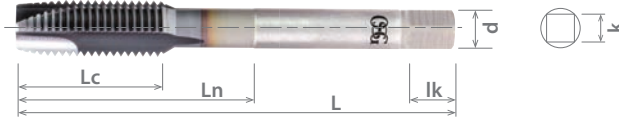
○ good ⊙ best

List 16510

VC10

V

A-POT, DIN Overall Length, Plug (3.5P-4.5P)



Units: mm

Tap Size	Thread Limit	No. of Flutes	EDP Number	DIN Overall Length	Thread Length	Neck Length	Shank Dia.	Square Width	Square Length
			Plug (3.5P - 4.5P)						
			V						
M3 x 0.5	D3	3	OSG1651000108	56.00	6.10	18.10	3.58	2.79	4.80
M3 x 0.35			OSG1651004108						
M4 x 0.7	D4		OSG1651000308	63.00	8.40	21.00	4.27	3.33	6.40
M4 x 0.5	D3		OSG1651000208						
M5 x 0.8	D4		OSG1651000508	70.00	9.10	24.80	4.93	3.86	7.90
M5 x 0.5	D3		OSG1651000408						
M6 x 1.0	D5		OSG1651000808	80.00	12.00	29.70	6.48	4.85	9.50
M6 x 0.75	D4		OSG1651000708						
M8 x 1.0			OSG1651000908	90.00		34.80	8.08	6.05	9.50
M8 x 0.75	D4		OSG1651004908	80.00		30.00			
M10 x 1.5	D6		OSG1651001308	100.00	18.00	38.90	9.68	7.26	11.10
M10 x 1.25	D5		OSG1651001208						
M12 x 1.5		OSG1651001608	100.00	21.00	32.00	9.32	6.98	11.10	
M14 x 2.0	D7	OSG1651001908	110.00	24.00	36.00	10.90	8.18	12.70	
M14 x 1.5	D6	OSG1651001808	100.00						
M16 x 2.0	D7	3	OSG1651002108	110.00	30.00	43.00	13.77	10.31	15.90
M16 x 1.5	D6	4	OSG1651002008	100.00					
M18 x 2.5	D7	3	OSG1651002308	125.00	30.00	43.00	13.77	10.31	15.90
M18 x 2.0		4	OSG1651006508						
M20 x 2.5	D7	3	OSG1651002508	140.00	30.00	44.00	16.56	12.42	17.50
M20 x 1.5	D6	4	OSG1651002408	125.00					

Packed: 1 pc.
Available V coating only.



The A Brand *The Tooling Master Class*

A-DRILL LINE-UP

The A Brand is not only a premium tooling brand, it also represents the quality assurance OSG guarantees to each and every customer. You will experience a level of quality, reliability and satisfaction that can only be delivered by the A Brand tooling master class.

Advance performance A-Drills are engineered for increased productivity in a wide variety of materials.

A-DRILL



A Brand® ADO-TRS (3D & 5D) *Advanced Performance High Feed 3-Flute Carbide Drills*



A Brand® ADO (3-50D) *Advanced Performance Coolant-Through Carbide Drills*



A Brand® ADO-SUS (3D, 5D & 8D) *Advanced Performance Coolant-Through Carbide Drills*



A Brand® ADO-TRS

Features & Benefits



EgiAs Coating

for exceptional wear resistance and toughness.

A Brand® ADO-TRS

The A Brand® ADO-TRS drill with its advanced performance 3-flute geometry, allows for reduced vibration, higher feed rates, improved chip evacuation, decreased work hardening, and stable drilling. The end result is up to 3X faster than 2-flute drills and up to 3X longer life.



Features & Benefits

- **OSG's EgiAs nano multilayered coating** delivers exceptional wear resistance and toughness.
- **Patented flute geometry** breaks steel chips into small, manageable pieces for easy evacuation.
- **The 120°, equally spaced, margins** of the 3-flute design allows for more stable, vibration-free, hole processing while increasing quality and tolerance.

List Numbers

6600 - A Brand® ADO-TRS
6610 - A Brand® ADO-TRS

Size Range

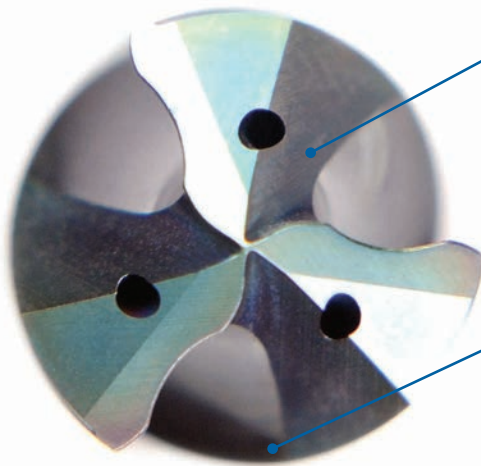
3mm-20mm, 1/8"-3/4"
3mm-20mm, 1/8"-3/4"

ISO	Work Material	Recommended
P	Low Carbon Steel : 1010, 1018	⊙
P	Medium Carbon Steel : 1035, 1045	⊙
P	High Carbon Steel : 1065	⊙
P	Alloy Steels : 4140, 4340	⊙
P	Die Steels	⊙
M	Stainless Steels : 300	
M	Stainless Steels : 400	⊙
M	Stainless Steels : 17-4PH	○
K	Cast Iron	⊙
N	Aluminum : 6061, 7075	
N	Aluminum : Casting	○
S	Nickel Alloy : Inconel	
S	Titanium : 6AL4V (30HRC)	○
H	Hardened Steels : ~35 HRC	⊙
H	Hardened Steels : 35-45 HRC	○
H	Hardened Steels : 45-50 HRC	
H	Hardened Steels : 50-70 HRC	

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Coolant-Through

for reduced heat and improved chip evacuation.

3 Flute Design

for reduced vibration and stable drilling.

3-Flutes vs 2-Flutes

3 Advantages of a 3-Flute Design



High Feed Rate:

OSG's ADO-TRS drills have a specially shaped flute (PAT.P.) that breaks steel chips into small, manageable pieces for easy evacuation. This allows for increased feed rates up to 1.5 to 2 times faster than 2-fluted drills.

High Precision:

The 120° equal spacing margins of the 3-flute design allows for more stable, vibration-free hole processing, thereby increasing hole quality and tolerance.

Reduced Work Hardening:

The amount of work hardening and depth of work hardening have a tendency to be proportional to the feed per revolution. When compared to conventional 2-flute drills with the same feed per revolution, the 3-flute design has proven to decrease work hardening.

A Brand ADO-TRS

Advanced Performance High Feed 3-Flute Carbide Drills

List 6600

ADO-TRS-3D, 3 Flute, Coolant-Through



NEW	SPEED FEED P15	CARBIDE	EgiAs		30°	SHANK h6
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Cutting Diameter Tolerance (h8)		
Size	mm	inch
4≤D≤6	+0 / -0.018	+0 / -0.0007
6<D≤10	+0 / -0.022	+0 / -0.0009
10<D≤18	+0 / -0.027	+0 / -0.0011
18<D≤20	+0 / -0.033	+0 / -0.0013

EDP Number	Diameter					Flute Length FL	Overall Length L	Shank Diameter d
	Fractional Size	Wire Gage	Letter Size	mm	Inch			
OSG660015917	-	-	-	4.05	0.1594	25	80	6
OSG660016117	-	20	-	4.09	0.1610			
OSG660016317	-	-	-	4.16	0.1638			
OSG660016817	-	-	-	4.27	0.1681	26		3/16
OSG660017217	11/64	-	-	4.37	0.1720	27		
OSG660017517	-	-	-	4.46	0.1756	28		6
OSG660018317	-	-	-	4.66	0.1835	29	3/16	
OSG660018717	3/16	-	-	4.76	0.1874	26	1/4	
OSG660020317	13/64	-	-	5.16	0.2031	28	82	6
OSG660021317	-	3	-	5.41	0.2130			30
OSG660021817	7/32	-	-	5.56	0.2189	6		
OSG660023417	15/64	-	-	5.95	0.2343	32	88	1/4
OSG8720600	-	-	-	6.00	0.2362			33
OSG660025017	1/4	-	E	6.35	0.2500	5/16		
OSG660025717	-	-	F	6.53	0.2571	36	94	5/16
OSG660026517	17/64	-	-	6.75	0.2657			56
OSG660028117	9/32	-	-	7.14	0.2811	58		
OSG660043717	7/16	-	-	11.11	0.4374	60	128	1/2
OSG660045317	29/64	-	-	11.51	0.4531	62		1/2
OSG660046817	15/32	-	-	11.91	0.4689	64		1/2
OSG660048417	31/64	-	-	12.30	0.4843	68	150	5/8
OSG660050017	1/2	-	-	12.70	0.5000	72		5/8
OSG660053117	17/32	-	-	13.49	0.5311	73	145	16
OSG660056217	9/16	-	-	14.29	0.5626			75
OSG8721430	-	-	-	14.30	0.5630	80		
OSG8721450	-	-	-	14.50	0.5709	83	155	18
OSG8721500	-	-	-	15.00	0.5906			87
OSG660059317	19/32	-	-	15.08	0.5937	88		
OSG8721520	-	-	-	15.20	0.5984		90	3/4
OSG8721530	-	-	-	15.30	0.6024	92		
OSG8721550	-	-	-	15.50	0.6102		93	3/4
OSG660062517	5/8	-	-	15.88	0.6252	95		
OSG8721600	-	-	-	16.00	0.6299		97	3/4
OSG8721650	-	-	-	16.50	0.6496	98		
OSG660065617	21/32	-	-	16.67	0.6563		99	3/4
OSG660066317	-	-	-	16.84	0.6630	100		
OSG8721700	-	-	-	17.00	0.6693		100	3/4
OSG8721725	-	-	-	17.25	0.6791	100		
OSG660068717	11/16	-	-	17.46	0.6874		100	3/4
OSG8721750	-	-	-	17.50	0.6890	100		
OSG660070317	45/64	-	-	17.86	0.7031		100	3/4
OSG8721800	-	-	-	18.00	0.7087	100		
OSG660071817	23/32	-	-	18.26	0.7189		100	3/4
OSG8721850	-	-	-	18.50	0.7283	100		
OSG8721900	-	-	-	19.00	0.7480		100	3/4
OSG660075017	3/4	-	-	19.05	0.7500	100		
OSG8721925	-	-	-	19.25	0.7579		100	3/4
OSG8721950	-	-	-	19.50	0.7677	100		
OSG8722000	-	-	-	20.00	0.7874		100	3/4

Packed: 1 pc.
Available EgiAs Coating Only.



Work Material																		
List No.	P					Die Steels	M			K Cast Iron	N		S		H			
	Carbon Steels			Alloy Steels	Stainless Steels		Aluminum	Nickel Alloy	Titanium		Hardened Steels							
	Low	Med.	High								300	400	17-4 PH	6061 7075	Casting	Inconel	6Al4V (30 HRC)	~35 HRC
6600	⊙	⊙	⊙	⊙	⊙		⊙	○	⊙		○		○	○				

○ good ⊙ best

List 6600

ADO-TRS-3D, 3 Flute, Coolant-Through



NEW	SPEED FEED P15	CARBIDE	EgiAs		30°	SHANK h6
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Cutting Diameter Tolerance (h8)		
Size	mm	inch
4≤D≤6	+0 / -0.018	+0 / -0.0007
6<D≤10	+0 / -0.022	+0 / -0.0009
10<D≤18	+0 / -0.027	+0 / -0.0011
18<D≤20	+0 / -0.033	+0 / -0.0013

EDP Number	Diameter					Flute Length FL	Overall Length L	Shank Diameter d
	Fractional Size	Wire Gage	Letter Size	mm	Inch			
OSG8720400	-	-	-	4.00	0.1575	24	74	4
OSG660015917	-	-	-	4.05	0.1594	25	80	6
OSG660016117	-	20	-	4.09	0.1610			
OSG8720410	-	-	-	4.10	0.1614			
OSG660016317	-	-	-	4.16	0.1638			
OSG8720420	-	-	-	4.20	0.1654			
OSG660016817	-	-	-	4.27	0.1681			
OSG8720430	-	-	-	4.30	0.1693	26	3/16	
OSG660017217	11/64	-	-	4.37	0.1720			
OSG8720440	-	-	-	4.40	0.1732	27	6	
OSG660017517	-	-	-	4.46	0.1756			
OSG8720450	-	-	-	4.50	0.1772			
OSG8720460	-	-	-	4.60	0.1811	28		3/16
OSG660018317	-	-	-	4.66	0.1835			
OSG8720470	-	13	-	4.70	0.1850	29		6
OSG660018717	3/16	-	-	4.76	0.1874			
OSG8720480	-	12	-	4.80	0.1890	30	1/4	
OSG8720490	-	-	-	4.90	0.1929			
OSG8720500	-	-	-	5.00	0.1969	25	82	
OSG8720510	-	-	-	5.10	0.2008			
OSG660020317	13/64	-	-	5.16	0.2031	26		6
OSG8720520	-	-	-	5.20	0.2047			
OSG8720530	-	-	-	5.30	0.2087	27		1/4
OSG8720540	-	-	-	5.40	0.2126			
OSG660021317	-	3	-	5.41	0.2130	28	8	
OSG8720550	-	-	-	5.50	0.2165			
OSG660021817	7/32	-	-	5.56	0.2189	29		1/4
OSG8720560	-	-	-	5.60	0.2205			
OSG8720570	-	-	-	5.70	0.2244	30		6
OSG8720580	-	-	-	5.80	0.2283			
OSG8720590	-	-	-	5.90	0.2323	31	1/4	
OSG660023417	15/64	-	-	5.95	0.2343			
OSG8720600	-	-	-	6.00	0.2362	32	88	
OSG8720610	-	-	-	6.10	0.2402			
OSG8720620	-	-	-	6.20	0.2441	33		5/16
OSG8720630	-	-	-	6.30	0.2480			
OSG660025017	1/4	-	E	6.35	0.2500	34		8
OSG8720640	-	-	-	6.40	0.2520			
OSG8720650	-	-	-	6.50	0.2559	35	5/16	
OSG660025717	-	-	F	6.53	0.2571			
OSG8720660	-	-	-	6.60	0.2598	36	8	
OSG8720670	-	-	-	6.70	0.2638			
OSG660026517	17/64	-	-	6.75	0.2657	37	8	
OSG8720680	-	-	-	6.80	0.2677			
OSG8720690	-	-	I	6.90	0.2717	37	5/16	
OSG8720700	-	-	-	7.00	0.2756			
OSG8720710	-	-	-	7.10	0.2795	37	8	
OSG660028117	9/32	-	-	7.14	0.2811			
OSG8720720	-	-	-	7.20	0.2835	37	5/16	
OSG8720730	-	-	-	7.30	0.2874			
OSG8720738	-	-	-	7.38	0.2905	37	8	
OSG8720740	-	-	-	7.40	0.2913			

Packed: 1 pc.
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Advanced Performance High Feed 3-Flute Carbide Drills

List 6600 (Continued)

ADO-TRS-3D, 3 Flute, Coolant-Through



EDP Number	Diameter					Flute Length FL	Overall Length L	Shank Diameter d
	Fractional Size	Wire Gage	Letter Size	mm	Inch			
OSG8720750	-	-	-	7.50	0.2953	38	94	8
OSG660029617	19/64	-	-	7.54	0.2969			5/16
OSG8720760	-	-	-	7.60	0.2992			8
OSG8720770	-	-	-	7.70	0.3031			
OSG8720780	-	-	-	7.80	0.3071	39		8
OSG8720790	-	-	-	7.90	0.3110			
OSG660031217	5/16	-	-	7.94	0.3126	40	5/16	
OSG8720800	-	-	-	8.00	0.3150		8	
OSG8720810	-	-	-	8.10	0.3189	41	101	10
OSG8720820	-	-	P	8.20	0.3228			
OSG8720830	-	-	-	8.30	0.3268	42		3/8
OSG660032817	21/64	-	-	8.33	0.3280			
OSG8720840	-	-	-	8.40	0.3307	43		10
OSG660033217	-	-	Q	8.43	0.3319			
OSG8720850	-	-	-	8.50	0.3346	44	3/8	
OSG8720860	-	-	-	8.60	0.3386			
OSG8720870	-	-	-	8.70	0.3425	45	10	
OSG660034317	11/32	-	-	8.73	0.3437			
OSG8720880	-	-	-	8.80	0.3465	46	3/8	
OSG8720890	-	-	-	8.90	0.3504		47	10
OSG8720900	-	-	-	9.00	0.3543			
OSG8720910	-	-	-	9.10	0.3583	48	106	3/8
OSG660035917	23/64	-	-	9.13	0.3594			
OSG8720920	-	-	-	9.20	0.3622	49		10
OSG8720925	-	-	-	9.25	0.3642			
OSG8720930	-	-	-	9.30	0.3661	50		7/16
OSG8720938	-	-	-	9.38	0.3693			
OSG8720940	-	-	-	9.40	0.3701	51	10	
OSG8720950	-	-	-	9.50	0.3740			
OSG660037517	3/8	-	-	9.53	0.3752	52	7/16	
OSG8720960	-	-	-	9.60	0.3780			
OSG8720970	-	-	-	9.70	0.3819	53	12	
OSG8720980	-	-	W	9.80	0.3858			
OSG8720990	-	-	-	9.90	0.3898	54	7/16	
OSG660039017	25/64	-	-	9.92	0.3906			
OSG8721000	-	-	-	10.00	0.3937	55	12	
OSG8721010	-	-	-	10.10	0.3976			
OSG8721020	-	-	-	10.20	0.4016	56	7/16	
OSG8721030	-	-	-	10.30	0.4055			
OSG660040617	13/32	-	-	10.32	0.4063	57	12	
OSG8721040	-	-	-	10.40	0.4094			
OSG8721050	-	-	-	10.50	0.4134	58	7/16	
OSG8721060	-	-	-	10.60	0.4173			
OSG8721070	-	-	-	10.70	0.4213	59	12	
OSG660042217	27/64	-	-	10.72	0.4220			
OSG8721080	-	-	-	10.80	0.4252	60	7/16	
OSG8721090	-	-	-	10.90	0.4291			
OSG8721100	-	-	-	11.00	0.4331	61	12	

Packed: 1 pc.
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List 6600 (Continued)

ADO-TRS-3D, 3 Flute, Coolant-Through



EDP Number	Diameter					Flute Length FL	Overall Length L	Shank Diameter d
	Fractional Size	Wire Gage	Letter Size	mm	Inch			
OSG8721110	-	-	-	11.10	0.4370			12
OSG660043717	7/16	-	-	11.11	0.4374	56		7/16
OSG8721120	-	-	-	11.20	0.4409			
OSG8721125	-	-	-	11.25	0.4429			
OSG8721130	-	-	-	11.30	0.4449			
OSG8721138	-	-	-	11.38	0.4480	57		12
OSG8721140	-	-	-	11.40	0.4488			
OSG8721150	-	-	-	11.50	0.4528			
OSG660045317	29/64	-	-	11.51	0.4531	58		1/2
OSG8721160	-	-	-	11.60	0.4567			
OSG8721170	-	-	-	11.70	0.4606			
OSG8721180	-	-	-	11.80	0.4646	59		12
OSG8721190	-	-	-	11.90	0.4685			
OSG660046817	15/32	-	-	11.91	0.4689	60		1/2
OSG8721200	-	-	-	12.00	0.4724			12
OSG660048417	31/64	-	-	12.30	0.4843	62		1/2
OSG8721250	-	-	-	12.50	0.4921	63		14
OSG660050017	1/2	-	-	12.70	0.5000	64		1/2
OSG8721300	-	-	-	13.00	0.5118	65		
OSG8721325	-	-	-	13.25	0.5216			
OSG8721330	-	-	-	13.30	0.5236	67		14
OSG8721338	-	-	-	13.38	0.5268			
OSG660053117	17/32	-	-	13.49	0.5311	68		5/8
OSG8721350	-	-	-	13.50	0.5315			
OSG8721400	-	-	-	14.00	0.5512	70		14
OSG8721410	-	-	-	14.10	0.5551			
OSG8721420	-	-	-	14.20	0.5591	71		16
OSG660056217	9/16	-	-	14.29	0.5626	72		5/8
OSG8721430	-	-	-	14.30	0.5630			
OSG8721450	-	-	-	14.50	0.5709	73		16
OSG8721500	-	-	-	15.00	0.5906	75		
OSG660059317	19/32	-	-	15.08	0.5937	76		5/8
OSG8721520	-	-	-	15.20	0.5984			
OSG8721530	-	-	-	15.30	0.6024	77		16
OSG8721550	-	-	-	15.50	0.6102	78		
OSG660062517	5/8	-	-	15.88	0.6252	80		5/8
OSG8721600	-	-	-	16.00	0.6299			16
OSG8721650	-	-	-	16.50	0.6496	83		18
OSG660065617	21/32	-	-	16.67	0.6563			3/4
OSG660066317	-	-	-	16.84	0.6630	85		
OSG8721700	-	-	-	17.00	0.6693			18
OSG8721725	-	-	-	17.25	0.6791	87		
OSG660068717	11/16	-	-	17.46	0.6874			3/4
OSG8721750	-	-	-	17.50	0.6890	88		18
OSG660070317	45/64	-	-	17.86	0.7031	90		3/4
OSG8721800	-	-	-	18.00	0.7087			18
OSG660071817	23/32	-	-	18.26	0.7189	92		3/4
OSG8721850	-	-	-	18.50	0.7283	93		
OSG8721900	-	-	-	19.00	0.7480			20
OSG660075017	3/4	-	-	19.05	0.7500	95		3/4
OSG8721925	-	-	-	19.25	0.7579	97		
OSG8721950	-	-	-	19.50	0.7677	98		20
OSG8722000	-	-	-	20.00	0.7874	100		

Packed: 1 pc.
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List No.	Work Material																
	P					M			K	N		S		H			
	Carbon Steels			Alloy Steels	Die Steels	Stainless Steels			Cast Iron	Aluminum		Nickel Alloy	Titanium	Hardened Steels			
	Low	Med.	High				300	400		17-4 PH				6061	Casting	Inconel	6Al4V (30 HRC)
6600	⊙	⊙	⊙	⊙		⊙	○	⊙		○		○	○	○			

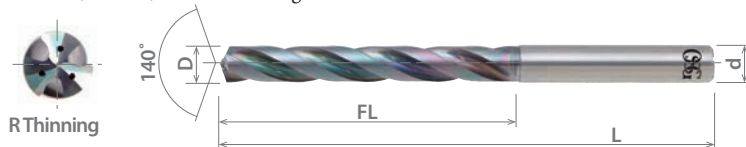
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A Brand ADO-TRS

Advanced Performance High Feed 3-Flute Carbide Drills

List 6610

ADO-TRS-5D, 3 Flute, Coolant-Through



NEW	SPEED FEED P15	CARBIDE	EgiAs	30°	SHANK h6
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Cutting Diameter Tolerance (h8)		
Size	mm	inch
4 ≤ D ≤ 6	+0 / -0.018	+0 / -0.0007
6 < D ≤ 10	+0 / -0.022	+0 / -0.0009
10 < D ≤ 18	+0 / -0.027	+0 / -0.0011
18 < D ≤ 20	+0 / -0.033	+0 / -0.0013

EDP Number	Diameter					Flute Length FL	Overall Length L	Shank Diameter d
	Fractional Size	Wire Gage	Letter Size	mm	Inch			
OSG8722400	-	-	-	4.00	0.1575	36	86	4
OSG661016117	-	20	-	4.09	0.1610	37	95	6
OSG8722410	-	-	-	4.10	0.1614	38		
OSG8722420	-	-	-	4.20	0.1654	39		
OSG8722430	-	-	-	4.30	0.1693	40		
OSG661017217	11/64	-	-	4.37	0.1720	41		
OSG8722440	-	-	-	4.40	0.1732	42		
OSG8722450	-	-	-	4.50	0.1772	43		
OSG8722460	-	-	-	4.60	0.1811	44		
OSG8722470	-	13	-	4.70	0.1850	45		
OSG661018717	3/16	-	-	4.76	0.1874	46		
OSG8722480	-	12	-	4.80	0.1890	47		
OSG8722490	-	-	-	4.90	0.1929	48	100	6
OSG8722500	-	-	-	5.00	0.1969	49		
OSG8722510	-	-	-	5.10	0.2008	50		
OSG661020317	13/64	-	-	5.16	0.2031	51		
OSG8722520	-	-	-	5.20	0.2047	52		
OSG8722530	-	-	-	5.30	0.2087	53		
OSG8722540	-	-	-	5.40	0.2126	54		
OSG661021317	-	3	-	5.41	0.2130	55		
OSG8722550	-	-	-	5.50	0.2165	56		
OSG661021817	7/32	-	-	5.56	0.2189	57		
OSG8722560	-	-	-	5.60	0.2205	58	109	8
OSG8722570	-	-	-	5.70	0.2244	59		
OSG8722580	-	-	-	5.80	0.2283	60		
OSG8722590	-	-	-	5.90	0.2323	61		
OSG661023417	15/64	-	-	5.95	0.2343	62		
OSG8722600	-	-	-	6.00	0.2362	63		
OSG8722610	-	-	-	6.10	0.2402	64		
OSG8722620	-	-	-	6.20	0.2441	65		
OSG8722630	-	-	-	6.30	0.2480	66		
OSG661025017	1/4	-	E	6.35	0.2500	67		
OSG8722640	-	-	-	6.40	0.2520	68	118	8
OSG8722650	-	-	-	6.50	0.2559	69		
OSG661025717	-	-	F	6.53	0.2571	70		
OSG8722660	-	-	-	6.60	0.2598	71		
OSG8722670	-	-	-	6.70	0.2638	72		
OSG661026517	17/64	-	-	6.75	0.2657	73		
OSG8722680	-	-	-	6.80	0.2677	74		
OSG8722690	-	-	I	6.90	0.2717	75		
OSG8722700	-	-	-	7.00	0.2756	76		
OSG8722710	-	-	-	7.10	0.2795	77		
OSG661028117	9/32	-	-	7.14	0.2811	78	118	8
OSG8722720	-	-	-	7.20	0.2835	79		
OSG8722730	-	-	-	7.30	0.2874	80		
OSG8722738	-	-	-	7.38	0.2905	81		
OSG8722740	-	-	-	7.40	0.2913	82		
OSG8722750	-	-	-	7.50	0.2953	83		
OSG661029617	19/64	-	-	7.54	0.2969	84		
OSG8722760	-	-	-	7.60	0.2992	85		
OSG8722770	-	-	-	7.70	0.3031	86		
OSG8722780	-	-	-	7.80	0.3071	87		
OSG8722790	-	-	-	7.90	0.3110	88	5/16	
OSG661031217	5/16	-	-	7.94	0.3126	89		
OSG8722800	-	-	-	8.00	0.3150	90	8	

Packed: 1 pc.
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List 6610 (Continued)

ADO-TRS-5D, 3 Flute, Coolant-Through

NEW	SPEED FEED P15	CARBIDE	EgiAs		30°	SHANK h6
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EDP Number	Diameter					Flute Length FL	Overall Length L	Shank Diameter d
	Fractional Size	Wire Gage	Letter Size	mm	Inch			
OSG8722810	-	-	-	8.10	0.3189	65	128	10
OSG8722820	-	-	P	8.20	0.3228	66		
OSG8722830	-	-	-	8.30	0.3268	67		
OSG661032817	21/64	-	-	8.33	0.3280			
OSG8722840	-	-	-	8.40	0.3307	68		
OSG661033217	-	-	Q	8.43	0.3319			
OSG8722850	-	-	-	8.50	0.3346	69		
OSG8722860	-	-	-	8.60	0.3386			
OSG8722870	-	-	-	8.70	0.3425	70		
OSG661034317	11/32	-	-	8.73	0.3437			
OSG8722880	-	-	-	8.80	0.3465	71		
OSG8722890	-	-	-	8.90	0.3504			
OSG8722900	-	-	-	9.00	0.3543	72		
OSG8722910	-	-	-	9.10	0.3583			
OSG661035917	23/64	-	-	9.13	0.3594	136	10	
OSG8722920	-	-	-	9.20	0.3622			73
OSG8722925	-	-	-	9.25	0.3642			
OSG8722930	-	-	-	9.30	0.3661			74
OSG8722938	-	-	-	9.38	0.3693			
OSG8722940	-	-	-	9.40	0.3701			75
OSG8722950	-	-	-	9.50	0.3740			
OSG661037517	3/8	-	-	9.53	0.3752			76
OSG8722960	-	-	-	9.60	0.3780			
OSG8722970	-	-	-	9.70	0.3819			77
OSG8722980	-	-	W	9.80	0.3858			
OSG8722990	-	-	-	9.90	0.3898	78		
OSG661039017	25/64	-	-	9.92	0.3906			
OSG8723000	-	-	-	10.00	0.3937	79		
OSG8723010	-	-	-	10.10	0.3976			
OSG8723020	-	-	-	10.20	0.4016	80		
OSG8723030	-	-	-	10.30	0.4055			
OSG661040617	13/32	-	-	10.32	0.4063	81		
OSG8723040	-	-	-	10.40	0.4094			
OSG8723050	-	-	-	10.50	0.4134	82		
OSG8723060	-	-	-	10.60	0.4173			
OSG8723070	-	-	-	10.70	0.4213	83		
OSG661042217	27/64	-	-	10.72	0.4220			
OSG8723080	-	-	-	10.80	0.4252	84		
OSG8723090	-	-	-	10.90	0.4291			
OSG8723100	-	-	-	11.00	0.4331	85		
OSG8723110	-	-	-	11.10	0.4370			
OSG661043717	7/16	-	-	11.11	0.4374	86		
OSG8723120	-	-	-	11.20	0.4409			
OSG8723125	-	-	-	11.25	0.4429	87		
OSG8723130	-	-	-	11.30	0.4449			
OSG8723138	-	-	-	11.38	0.4480	88		
OSG8723140	-	-	-	11.40	0.4488			
OSG8723150	-	-	-	11.50	0.4528	89		
OSG661045317	29/64	-	-	11.51	0.4531			
OSG8723160	-	-	-	11.60	0.4567	90		
OSG8723170	-	-	-	11.70	0.4606			
OSG8723180	-	-	-	11.80	0.4646	91		
OSG8723190	-	-	-	11.90	0.4685			
OSG661046817	15/32	-	-	11.91	0.4689	92		
OSG8723200	-	-	-	12.00	0.4724			

Packed: 1 pc.
Available EgiAs Coating Only.



Work Material																		
List No.	P					Die Steels	M			K Cast Iron	N		S		H			
	Carbon Steels			Alloy Steels 4140 4340	Stainless Steels			Aluminum			Nickel Alloy Inconel	Titanium 6Al4V (30 HRC)	Hardened Steels					
	Low 1010 1018	Med. 1035 1045	High 1065		300		400	17-4 PH	6061 7075				Casting	~35 HRC	35-45 HRC	45-50 HRC	50-70 HRC	
6610	⊙	⊙	⊙	⊙	⊙		⊙	○	⊙		○		○	○				

○ good ⊙ best

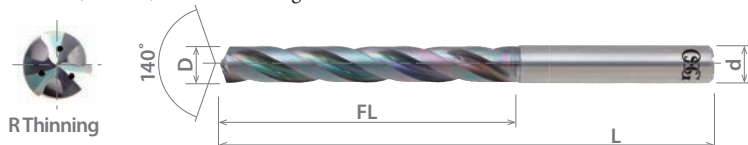
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Advanced Performance High Feed 3-Flute Carbide Drills

List 6610 (Continued)

ADO-TRS-5D, 3 Flute, Coolant-Through

NEW **SPEED FEED** P15 **CARBIDE** **EgiAs** **30°** **SHANK** h6



Cutting Diameter Tolerance (h8)		
Size	mm	inch
4≤D≤6	+0 / -0.018	+0 / -0.0007
6<D≤10	+0 / -0.022	+0 / -0.0009
10<D≤18	+0 / -0.027	+0 / -0.0011
18<D≤20	+0 / -0.033	+0 / -0.0013

EDP Number	Diameter					Flute Length FL	Overall Length L	Shank Diameter d
	Fractional Size	Wire Gage	Letter Size	mm	Inch			
OSG661048417	31/64	-	-	12.30	0.4843	99	167	1/2
OSG8723250	-	-	-	12.50	0.4921	100		14
OSG661050017	1/2	-	-	12.70	0.5000	102	14	1/2
OSG8723300	-	-	-	13.00	0.5118	104		14
OSG8723325	-	-	-	13.25	0.5216	106	176	14
OSG8723330	-	-	-	13.30	0.5236	107		
OSG8723338	-	-	-	13.38	0.5268	108	176	5/8
OSG661053117	17/32	-	-	13.49	0.5311			
OSG8723350	-	-	-	13.50	0.5315	112	185	14
OSG8723400	-	-	-	14.00	0.5512			
OSG8723410	-	-	-	14.10	0.5551	113	185	16
OSG8723420	-	-	-	14.20	0.5591	114		
OSG661056217	9/16	-	-	14.29	0.5626	115	185	5/8
OSG8723430	-	-	-	14.30	0.5630			
OSG8723450	-	-	-	14.50	0.5709	116	193	16
OSG8723500	-	-	-	15.00	0.5906	120		
OSG661059317	19/32	-	-	15.08	0.5937	121	193	5/8
OSG8723520	-	-	-	15.20	0.5984	122		
OSG8723530	-	-	-	15.30	0.6024	123	201	18
OSG8723550	-	-	-	15.50	0.6102	124		
OSG661062517	5/8	-	-	15.88	0.6252	128	201	3/4
OSG8723600	-	-	-	16.00	0.6299	132		
OSG8723650	-	-	-	16.50	0.6496	134	209	18
OSG661065617	21/32	-	-	16.67	0.6563	134		
OSG661066317	-	-	-	16.84	0.6630	135	209	3/4
OSG8723700	-	-	-	17.00	0.6693	136		
OSG8723725	-	-	-	17.25	0.6791	138	217	20
OSG661068717	11/16	-	-	17.46	0.6874	140		
OSG8723750	-	-	-	17.50	0.6890	140	217	3/4
OSG661070317	45/64	-	-	17.86	0.7031	143		
OSG8723800	-	-	-	18.00	0.7087	144	225	20
OSG661071817	23/32	-	-	18.26	0.7189	147		
OSG8723850	-	-	-	18.50	0.7283	148	225	3/4
OSG8723900	-	-	-	19.00	0.7480	152		
OSG661075017	3/4	-	-	19.05	0.7500	154	225	20
OSG8723925	-	-	-	19.25	0.7579			
OSG8723950	-	-	-	19.50	0.7677	156	225	20
OSG8724000	-	-	-	20.00	0.7874	160		

Packed: 1 pc.
Available EgiAs Coating Only.



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List No.	Work Material															
	P					M			K	N		S		H		
	Carbon Steels			Alloy Steels	Die Steels	Stainless Steels			Cast Iron	Aluminum		Nickel Alloy	Titanium	Hardened Steels		
	Low	Med.	High	4140 4340		300	400	17-4 PH		6061 7075	Casting	Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC	45-50 HRC
6610	⊙	⊙	⊙	⊙		⊙	○		○		○	○	○			

○ good ⊙ best

List 6600 - A Brand® ADO-TRS: 3D

List 6610 - A Brand® ADO-TRS: 5D

General Drilling Operations

Work Material		Carbon Steels, Mild Steels 1010, 1050, 12L14		Alloy Steels 4140, 4130		Stainless Steels 400SS, 17-4PH		Cast Iron		Ductile Cast Iron	
Drilling Speed		260-395 SFM		260-395 SFM		130-200 SFM		260-395 SFM		195-330 SFM	
Drill Dia.		Speed RPM	Feed IPR	Speed RPM	Feed IPR	Speed RPM	Feed IPR	Speed RPM	Feed IPR	Speed RPM	Feed IPR
mm	Inch										
4	-	8,000	0.005 - 0.009	8,000	0.005 - 0.009	4,000	0.005 - 0.007	8,000	0.005 - 0.009	6,300	0.005 - 0.009
6	-	5,300	0.007 - 0.013	5,300	0.007 - 0.013	2,700	0.007 - 0.009	5,300	0.008 - 0.014	4,200	0.007 - 0.013
-	1/4	5,000	0.007 - 0.014	5,000	0.007 - 0.014	2,500	0.007 - 0.010	5,000	0.009 - 0.015	4,000	0.007 - 0.014
8	-	4,000	0.009 - 0.017	4,000	0.009 - 0.017	2,000	0.009 - 0.013	4,000	0.011 - 0.019	3,200	0.009 - 0.017
-	3/8	3,300	0.012 - 0.021	3,300	0.012 - 0.021	1,700	0.011 - 0.015	3,300	0.013 - 0.023	2,700	0.012 - 0.021
10	-	3,200	0.012 - 0.022	3,200	0.012 - 0.022	1,600	0.012 - 0.016	3,200	0.014 - 0.024	2,500	0.012 - 0.022
-	7/16	2,900	0.013 - 0.023	2,900	0.013 - 0.023	1,400	0.013 - 0.017	2,900	0.015 - 0.026	2,300	0.013 - 0.023
12	-	2,700	0.014 - 0.024	2,700	0.014 - 0.024	1,300	0.014 - 0.019	2,700	0.017 - 0.028	2,100	0.014 - 0.024
-	1/2	2,500	0.015 - 0.025	2,500	0.015 - 0.025	1,300	0.015 - 0.020	2,500	0.018 - 0.028	2,000	0.015 - 0.025
14	-	2,300	0.017 - 0.028	2,300	0.017 - 0.028	1,100	0.017 - 0.022	2,300	0.019 - 0.030	1,800	0.017 - 0.028
-	5/8	2,000	0.019 - 0.031	2,000	0.019 - 0.031	1,000	0.019 - 0.025	2,000	0.022 - 0.034	1,600	0.019 - 0.031
18	-	1,800	0.021 - 0.032	1,800	0.021 - 0.032	900	0.021 - 0.028	1,800	0.025 - 0.035	1,400	0.021 - 0.032
-	3/4	1,700	0.023 - 0.034	1,700	0.023 - 0.034	800	0.023 - 0.030	1,700	0.026 - 0.037	1,300	0.023 - 0.034
20	-	1,600	0.024 - 0.035	1,600	0.024 - 0.035	800	0.024 - 0.031	1,600	0.028 - 0.039	1,300	0.024 - 0.035

General Drilling Operations

Work Material		Cast Aluminum		Special Alloy Steels, Hardened Steels					
Hardness				26-30 HRC		30-34 HRC		34-43 HRC	
Drilling Speed		260-660 SFM		195-295 SFM		160-230 SFM		130-160 SFM	
Drill Dia.		Speed RPM	Feed IPR	Speed RPM	Feed IPR	Speed RPM	Feed IPR	Speed RPM	Feed IPR
mm	Inch								
4	-	11,100	0.006 - 0.012	6,000	0.005 - 0.008	4,800	0.005 - 0.008	3,600	0.005 - 0.007
6	-	7,400	0.009 - 0.019	4,000	0.007 - 0.012	3,200	0.007 - 0.012	2,400	0.007 - 0.009
-	1/4	7,000	0.010 - 0.020	3,700	0.007 - 0.012	3,000	0.007 - 0.012	2,200	0.007 - 0.010
8	-	5,600	0.013 - 0.025	3,000	0.009 - 0.016	2,400	0.009 - 0.016	1,800	0.009 - 0.013
-	3/8	4,700	0.015 - 0.030	2,500	0.011 - 0.019	2,000	0.011 - 0.019	1,500	0.011 - 0.015
10	-	4,500	0.016 - 0.031	2,400	0.012 - 0.020	1,900	0.012 - 0.020	1,400	0.012 - 0.016
-	7/16	4,000	0.017 - 0.035	2,100	0.013 - 0.022	1,700	0.013 - 0.022	1,300	0.013 - 0.017
12	-	3,700	0.019 - 0.038	2,000	0.014 - 0.024	1,600	0.014 - 0.024	1,200	0.014 - 0.019
-	1/2	3,500	0.020 - 0.040	1,900	0.015 - 0.024	1,500	0.015 - 0.024	1,100	0.015 - 0.020
14	-	3,200	0.022 - 0.044	1,700	0.017 - 0.025	1,400	0.017 - 0.025	1,000	0.017 - 0.022
-	5/8	2,800	0.025 - 0.050	1,500	0.019 - 0.025	1,200	0.019 - 0.025	900	0.019 - 0.025
18	-	2,500	0.028 - 0.057	1,300	0.021 - 0.028	1,100	0.021 - 0.028	800	0.021 - 0.028
-	3/4	2,300	0.030 - 0.060	1,200	0.023 - 0.030	1,000	0.023 - 0.030	700	0.023 - 0.030
20	-	2,200	0.031 - 0.063	1,200	0.024 - 0.031	1,000	0.024 - 0.031	700	0.024 - 0.031

A Brand® ADO

Advanced Performance Coolant-Through Carbide Drills

A Brand® ADO

The A Brand® ADO drill series is OSG's premium line of carbide coolant-through high performance drills, designed to drill in a variety of steels up to 50X diameter without pecking. New point geometry reduces thrust forces, while our proprietary EgiAs coating provides drastically higher hardness and heat resistance, enabling higher drilling speeds and incredible tool life.



Middle Margin

for improved stability in deep-hole applications. (8D & up)



Features & Benefits

- **OSG's proprietary EgiAs coating** provides higher oxidation temperature and hardness improving wear resistance.
- **Wavy form cutting edge design (3D-8D)** reduces thrust forces and produces smaller chips for easy evacuation.
- **Internal coolant holes** reduce heat and improve chip evacuation for increased tool life and faster drilling speeds.

List Numbers

6500 - A Brand® ADO (3D)
 6510 - A Brand® ADO (5D)
 6520 - A Brand® ADO (8D)
 6530 - A Brand® ADO (10D)
 6535 - A Brand® ADO (15D)
 6540 - A Brand® ADO (20D)
 6550 - A Brand® ADO (30D)
 6560 - A Brand® ADO (40D)
 6570 - A Brand® ADO (50D)

Size Range

2mm-20mm, 3/32"-3/4"
 2mm-20mm, 3/32"-3/4"
 2mm-15.88mm, 3/32"-5/8"
 2mm-14.29mm, 3/32"-9/16"
 3mm-14.29mm, 1/8"-9/16"
 3mm-14.29mm, 1/8"-9/16"
 3mm-14.29mm, 1/8"-9/16"
 3mm-10mm, 1/8"-3/8"
 3mm-8mm, 1/8"-5/16"

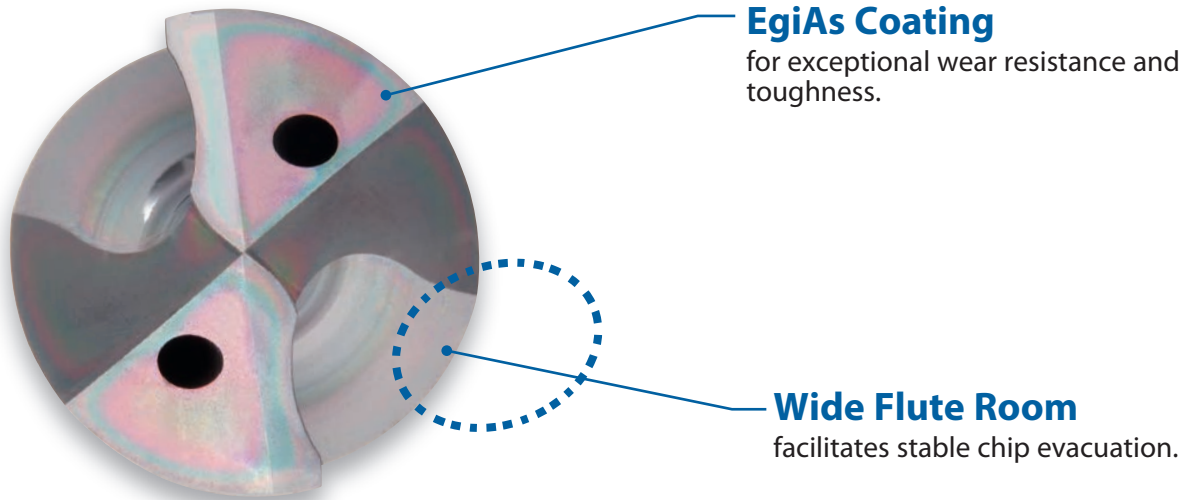
ISO	Work Material	Recommended
P	Low Carbon Steel : 1010, 1018	⊙
P	Medium Carbon Steel : 1035, 1045	⊙
P	High Carbon Steel : 1065	⊙
P	Alloy Steels : 4140, 4340	⊙
P	Die Steels	⊙
M	Stainless Steels : 300	○
M	Stainless Steels : 400	○
M	Stainless Steels : 17-4PH	○
K	Cast Iron	⊙
N	Aluminum : 6061, 7075	○
N	Aluminum : Casting	○
S	Nickel Alloy : Inconel	○
S	Titanium : 6AL4V (30HRC)	○
H	Hardened Steels : ~35 HRC	⊙
H	Hardened Steels : 35-45 HRC	○
H	Hardened Steels : 45-50 HRC	○
H	Hardened Steels : 50-70 HRC	○

○ good ⊙ best

More sizes available from 3XD-50XD scan the QR code to view full selection.

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EgiAs Coating
for exceptional wear resistance and toughness.

Wide Flute Room
facilitates stable chip evacuation.

Two Point Forms Based on Length

Wavy Point Form (3D-8D) or Straight Point Form (10D-30D)

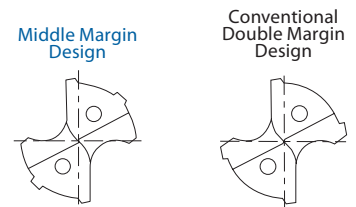
Wavy point form improves the sharpness of the cutting edge at various areas where the cutting force fluctuates with the cutting speed, thereby achieving low thrust, stable torque, and longer tool life.

Straight point form offers superior point strength with low cutting forces for long drills even with long overhang length.

Middle Margin Design 8D & Up

More Stability than Conventional Double Margin Designs

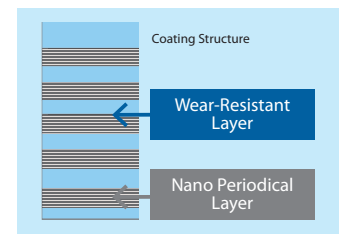
Unlike the conventional double margin, the second margin has been placed in the center of the peripheral land. This has shortened the time from the start of engagement to the four-point restraint by the double margin. Furthermore, it has improved stability during intermittent cutting such as cross-drilling or when penetrating an angled surface.



EgiAs Coating

Exceptional Wear Resistance & Toughness

Constructed with extreme toughness, high wear and heat resistance characteristics that ensures stable and consistent tool life. Suppresses friction with the wear resistance layer; prevents breakage with the nano periodical layer.



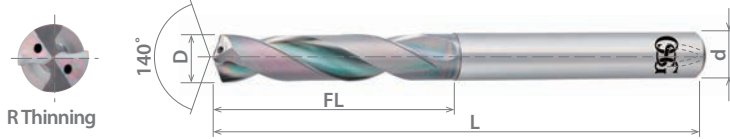
Coating Color	Coating Structure	Hardness (Hv)	Oxidation Temperature (°C)	Heat Resistance	Adhesion Strength	Wear Resistance	Welding Resistance	Toughness
Iridescent Color	Periodic Nano-layer and wear resistance layer	3,200	1,100	☉	☉	☉	☉	☉

A Brand[®] ADO

Advanced Performance Coolant-Through Carbide Drill

List 6500

ADO-3D, Coolant-Through



NEW	SPEED FEED P58	CARBIDE	EgiAs		30°	SHANK h6
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Size	Cutting Diameter Tolerance (h8)	
	mm	inch
2≤D≤3	+0 / -0.014	+0 / -0.0006
3<D≤6	+0 / -0.018	+0 / -0.0007
6<D≤10	+0 / -0.022	+0 / -0.0009
10<D≤18	+0 / -0.027	+0 / -0.0011
18<D≤20	+0 / -0.033	+0 / -0.0013

EDP Number	Diameter					Flute Length FL	Overall Length L	Shank Diameter d
	Fractional Size	Wire Gage	Letter Size	mm	Inch			
OSG8690230	-	-	-	2.30	0.0906	14	66	3
OSG650009412	-	-	-	2.40	0.0945	15		
OSG8690260	-	-	-	2.60	0.1024	16		
OSG650010612	-	-	-	2.70	0.1063	17		
OSG650011161	-	-	-	2.83	0.1116	18		
OSG650011631	-	-	-	2.95	0.1163	18		
OSG650012511	1/8	-	-	3.18	0.1252	20	74	1/8
OSG8690350	-	-	-	3.50	0.1378	21		
OSG650014051	-	-	-	3.57	0.1405	22		
OSG8690390	-	-	-	3.90	0.1535	24		
OSG650016311	-	-	-	4.16	0.1636	26	80	6
OSG8700430	-	-	-	4.30	0.1693	26		
OSG650017111	11/64	-	-	4.37	0.1719	27		
OSG8700460	-	-	-	4.60	0.1811	28		
OSG650018311	-	-	-	4.66	0.1835	28		
OSG8690470	-	-	-	4.70	0.1850	29		
OSG650018711	3/16	-	-	4.76	0.1874	29	82	3/16
OSG650020211	13/64	-	-	5.18	0.2039	26		
OSG650020701	-	-	-	5.26	0.2070	27		
OSG8690530	-	-	-	5.30	0.2087	27		
OSG650021711	7/32	-	-	5.56	0.2189	28		
OSG650025011	1/4	-	E	6.35	0.2500	32		
OSG650026411	17/64	-	-	6.75	0.2657	34	88	5/16
OSG8700690	-	-	-	6.90	0.2717	35		
OSG650027701	-	-	-	7.04	0.2770	36		
OSG650028011	9/32	-	-	7.14	0.2811	36		
OSG650031211	5/16	-	-	7.94	0.3126	40	94	5/16

Packed: 1 pc.
Available EgiAs Coating Only.

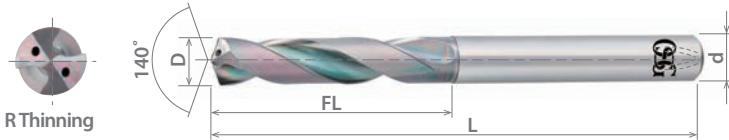


List No.	Work Material																		
	P					M			K	N		S		H					
	Carbon Steels				Alloy Steels	Die Steels	Stainless Steels			Cast Iron	Aluminum		Nickel Alloy	Titanium	Hardened Steels				
	Low	Med.	High																
	1010 1018	1035 1045	1065	4140 4340		300	400	17-4 PH		6061 7075	Casting	Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC	45-50 HRC	50-70 HRC		
6500	⊙	⊙	⊙	⊙	⊙	○	○	○	⊙	○	○	○	⊙	⊙	⊙	⊙	⊙		

○ good ⊙ best

List 6500 (Continued)

ADO-3D, Coolant-Through



NEW	SPEED FEED P58	CARBIDE	EgiAs		30°	SHANK h6
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Cutting Diameter Tolerance (h8)		
Size	mm	inch
2≤D≤3	+0 / -0.014	+0 / -0.0006
3<D≤6	+0 / -0.018	+0 / -0.0007
6<D≤10	+0 / -0.022	+0 / -0.0009
10<D≤18	+0 / -0.027	+0 / -0.0011
18<D≤20	+0 / -0.033	+0 / -0.0013

EDP Number	Diameter					Flute Length FL	Overall Length L	Shank Diameter d
	Fractional Size	Wire Gage	Letter Size	mm	Inch			
OSG8700820	-	-	-	8.20	0.3228	41	101	10
OSG650033011	-	-	-	8.43	0.3319	43		10
OSG650034211	11/32	-	-	8.73	0.3437	44		3/8
OSG8700890	-	-	-	8.90	0.3504	45	10	
OSG650037511	3/8	-	-	9.53	0.3752	48	3/8	
OSG8690960	-	-	-	9.60	0.3780		106	10
OSG8691000	-	-	-	10.00	0.3937	50	10	
OSG8701050	-	-	-	10.50	0.4134	53	113	12
OSG8701070	-	-	-	10.70	0.4213	54		12
OSG650043711	7/16	-	-	11.11	0.4374	56	7/16	
OSG650045211	29/64	-	-	11.51	0.4531		120	1/2
OSG8691160	-	-	-	11.60	0.4567		12	
OSG650048411	31/64	-	-	12.30	0.4844	58	1/2	
OSG650050011	1/2	-	-	12.70	0.5000		128	1/2
OSG650051501	-	-	-	13.08	0.5150	66	134	
OSG8691390	-	-	-	13.90	0.5472		14	
OSG650056111	9/16	-	-	14.29	0.5626	72	5/8	
OSG8701470	-	-	-	14.70	0.5787		74	16
OSG650062511	-	-	-	15.88	0.6252	80	5/8	
OSG650065511	5/8	-	-	16.67	0.6563	85	3/4	
OSG650069801	21/32	-	-	17.73	0.6980		90	18
OSG8691800	-	-	-	18.00	0.7087	95	20	
OSG8701900	-	-	-	19.00	0.7480		160	20
OSG650075011	-	-	-	19.05	0.7500		3/4	

Packed: 1 pc.
Available EgiAs Coating Only.



List No.	Work Material																
	P					M			K	N		S		H			
	Carbon Steels			Alloy Steels	Die Steels	Stainless Steels			Cast Iron	Aluminum		Nickel Alloy	Titanium	Hardened Steels			
	Low	Med.	High	4140 4340		300	400	17-4 PH			6061 7075	Casting	Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC	45-50 HRC
6500	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	

⊙ good ⊙ best

A Brand® ADO-SUS

Advanced Performance Coolant-Through Carbide Drills



A Brand® ADO-SUS

The A Brand® ADO-SUS drills are one of OSG's premium lines of carbide, coolant-through, advanced performance drills, designed to drill in stainless steel and titanium. New "Mega Cooler™" coolant hole shape improves coolant flow by 33%, aids in better chip evacuation and less cutting heat generation.



Features & Benefits

- **OSG's patented WXL® coating** dramatically improves wear resistance.
- **Sharp Cutting Edge** reduces work hardening, leading to longer tool life.
- **Mega Cooler™ coolant hole** improves coolant flow, chip evacuation and heat generation.

List Numbers

5200 - A Brand® ADO-SUS (3D)
 5210 - A Brand® ADO-SUS (5D)
 5220 - A Brand® ADO-SUS (8D)

Size Range

2mm-20mm, 3/32"-3/4"
 2mm-20mm, 3/32"-3/4"
 2mm-12.7mm, 3/32"-1/2"

ISO	Work Material	Recommended
P	Low Carbon Steel : 1010, 1018	⊙
P	Medium Carbon Steel : 1035, 1045	⊙
P	High Carbon Steel : 1065	○
P	Alloy Steels : 4140, 4340	○
P	Die Steels	
M	Stainless Steels : 300	⊙
M	Stainless Steels : 400	⊙
M	Stainless Steels : 17-4PH	⊙
K	Cast Iron	⊙
N	Aluminum : 6061, 7075	
N	Aluminum : Casting	○
S	Nickel Alloy : Inconel	
S	Titanium : 6AL4V (30HRC)	⊙
H	Hardened Steels : ~35 HRC	○
H	Hardened Steels : 35-45 HRC	
H	Hardened Steels : 45-50 HRC	
H	Hardened Steels : 50-70 HRC	

○ good ⊙ best

ADO-SUS drill more sizes available up to 8XD scan QR code to view full selection.

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WATCH MORE!



Why Use A Brand® ADO-SUS?

The Solution to your Stainless Steel and Titanium Troubles

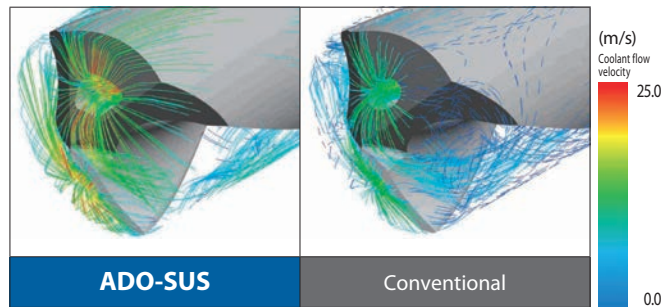
OSG's A Brand® ADO-SUS has specifically addressed many common issues that occur when machining stainless steels and titanium alloys such as work hardening, elongated chips, low thermal conductivity and welding on the tool.

With a patent pending cutting edge, new flute geometry, WXL® coating and the newly designed Mega Cooler™ coolant hole, the ADO-SUS has a solution for all of your stainless steel and titanium troubles.

Mega Cooler™ Coolant Hole

Exceptional Coolant Delivery

Improved coolant delivery at the cutting edge suppresses heat buildup and improves chip evacuation, thereby increasing tool life and enabling faster drilling speeds. The Mega Cooler™ coolant hole is only available on sizes 6mm and over.

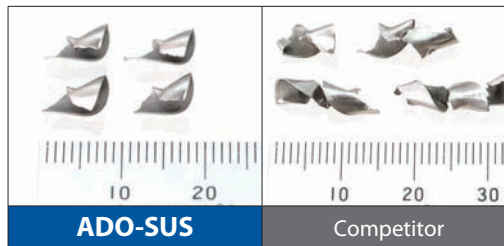


Analysis of coolant flow with spindle speed of 2,200 RPM

New Flute Geometry

Producing Manageable Chips

The A Brand® ADO-SUS features a cutting geometry specifically designed for producing compact cutting chips.



A Brand ADO-SUS

Advanced Performance Coolant-Through Carbide Drills

List 5200

ADO-SUS-3D, Coolant-Through



NEW SPEED FEED P90-91 **CARBIDE** **WXL** **30°** **SHANK h6**

Cutting Diameter Tolerance (h8)		
Size	mm	inch
2≤D≤3	+0 / -0.014	+0 / -0.0006
3<D≤6	+0 / -0.018	+0 / -0.0007
6<D≤10	+0 / -0.022	+0 / -0.0009
10<D≤18	+0 / -0.027	+0 / -0.0011
18<D≤20	+0 / -0.033	+0 / -0.0013

EDP Number	Diameter					Flute Length FL	Overall Length L	Shank Diameter d
	Fractional Size	Wire Gage	Letter Size	mm	Inch			
OSG8665230	-	-	-	2.30	0.0906	14	66	3
OSG8665240	-	-	-	2.40	0.0945	15		
OSG8665260	-	-	-	2.60	0.1024	16		
OSG8665280	-	-	-	2.80	0.1102	17		
OSG520011612	-	-	-	2.95	0.1161	18	74	4
OSG520012512	1/8	-	-	3.18	0.1250	20		
OSG8665340	-	-	-	3.40	0.1339	21		
OSG8665350	-	-	-	3.50	0.1378	22		
OSG520014012	9/64	-	-	3.57	0.1406	22	80	6
OSG8665390	-	-	-	3.90	0.1535	24		
OSG520016312	-	-	-	4.16	0.1638	26		
OSG520016812	-	-	-	4.27	0.1681			
OSG8680430	-	-	-	4.30	0.1693	29	6	
OSG8680460	-	-	-	4.60	0.1811			
OSG8680470	-	-	-	4.70	0.1850	27	6	
OSG520018712	3/16	-	-	4.76	0.1875			
OSG520020312	13/64	-	-	5.16	0.2031	26	82	3/16
OSG520020712	-	-	-	5.26	0.2071			
OSG8665530	-	-	-	5.30	0.2087			
OSG520021812	7/32	-	-	5.56	0.2188			
OSG8665635	1/4	-	-	6.35	0.2500	32	94	1/4
OSG520026512	17/64	-	-	6.75	0.2656	34		
OSG8680690	-	-	-	6.90	0.2717	35		
OSG520027712	-	-	-	7.04	0.2772	36		
OSG520028112	9/32	-	-	7.14	0.2813			
OSG520031212	5/16	-	-	7.94	0.3125	40	101	10
OSG8680820	-	-	-	8.20	0.3228	41		
OSG520033212	-	-	Q	8.43	0.3320	43		

Packed: 1 pc.
Available WXL® coating only.
MEGA COOLER™ applies only to diameter sizes over 6 mm.



List No.	Work Material																	
	P					M			K	N		S		H				
	Carbon Steels			Alloy Steels	Die Steels	Stainless Steels			Cast Iron	Aluminum		Nickel Alloy	Titanium	Hardened Steels				
	Low	Med.	High			300	400	17-4 PH		6061 7075	Casting	Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC	45-50 HRC	50-70 HRC	
5200	⊙	⊙	○	○		⊙	⊙	⊙	⊙		○		⊙	○				

○ good ⊙ best



List 5200 (Continued)

ADO-SUS-3D, Coolant-Through



NEW	SPEED FEED P90-91	CARBIDE	WXL		30°	SHANK h6
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Cutting Diameter Tolerance (h8)		
Size	mm	inch
2≤D≤3	+0 / -0.014	+0 / -0.0006
3<D≤6	+0 / -0.018	+0 / -0.0007
6<D≤10	+0 / -0.022	+0 / -0.0009
10<D≤18	+0 / -0.027	+0 / -0.0011
18<D≤20	+0 / -0.033	+0 / -0.0013

EDP Number	Diameter					Flute Length FL	Overall Length L	Shank Diameter d
	Fractional Size	Wire Gage	Letter Size	mm	Inch			
OSG520034312	11/32	-	-	8.73	0.3438	44	101	3/8
OSG8680890	-	-	-	8.90	0.3504	45		10
OSG520037512	3/8	-	-	9.53	0.3750	48	106	3/8
OSG8665960	-	-	-	9.60	0.3780			10
OSG8666000	-	-	-	10.00	0.3937	50	113	10
OSG8681050	-	-	-	10.50	0.4134	53		12
OSG8681070	-	-	-	10.70	0.4213	54	120	12
OSG520043712	7/16	-	-	11.11	0.4375	56		7/16
OSG520045312	29/64	-	-	11.51	0.4531	58	128	1/2
OSG8666160	-	-	-	11.60	0.4567			
OSG520048512	31/64	-	-	12.30	0.4844	62	134	1/2
OSG8681250	-	-	-	12.50	0.4921	63		14
OSG520050012	1/2	-	-	12.70	0.5000	64	140	1/2
OSG520051512	-	-	-	13.08	0.5150	66		14
OSG520053112	17/32	-	-	13.49	0.5313	68	145	5/8
OSG8666390	-	-	-	13.90	0.5472	70		
OSG520056212	9/16	-	-	14.29	0.5625	72	150	5/8
OSG520056312	-	-	-	14.30	0.5630			16
OSG520057912	-	-	-	14.70	0.5787	74	155	16
OSG520062512	5/8	-	-	15.88	0.6250	80		16
OSG520065612	21/32	-	-	16.67	0.6563	85	160	3/4
OSG520069812	-	-	-	17.73	0.6980	90		
OSG8666800	-	-	-	18.00	0.7087	95	160	20
OSG8681900	-	-	-	19.00	0.7480			
OSG520075012	3/4	-	-	19.05	0.7500			3/4

Packed: 1 pc.
Available WXL[®] coating only.
MEGA COOLER™ applies only to diameter sizes over 6 mm.



List No.	Work Material																
	P					M			K	N		S		H			
	Carbon Steels			Alloy Steels	Die Steels	Stainless Steels			Cast Iron	Aluminum		Nickel Alloy	Titanium	Hardened Steels			
	Low	Med.	High	4140 4340		300	400	17-4 PH		6061 7075	Casting	Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC	45-50 HRC	50-70 HRC
5200	⊙	⊙	○	○		⊙	⊙	⊙	⊙		○		⊙	○			

○ good ⊙ best

The A Brand *The Tooling Master Class*

A-END MILL LINE-UP

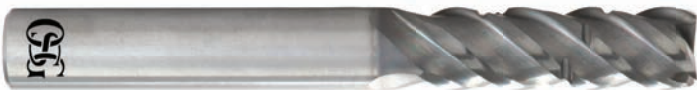
The A Brand is not only a premium tooling brand, it also represents the quality assurance OSG guarantees to each and every customer. You will experience a level of quality, reliability and satisfaction that can only be delivered by the A Brand tooling master class.

Advanced performance A-End Mills are optimized for the most challenging applications.

A-END MILL



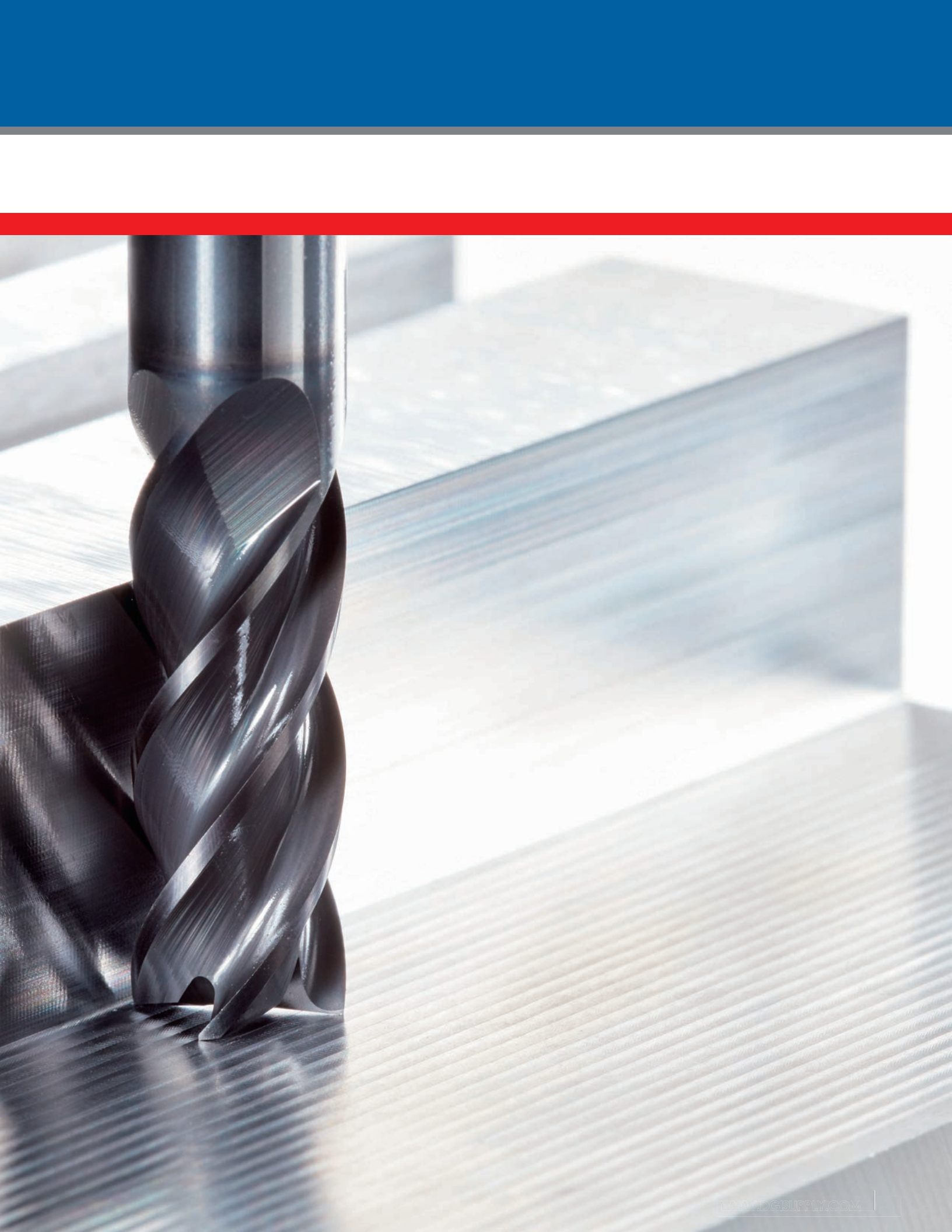
A Brand® AE-VMS *Advanced Performance Anti-Vibration Carbide End Mills*



A Brand® AE-VML *Advanced Performance Carbide End Mills for High Efficiency Side Milling*



A Brand® AE-H *Advanced Performance Carbide End Mills with DUOREY Coating*



A Brand® AE-VMS

Features & Benefits

Duarise Coating

Minimizes thermal cracks

Variable Leads

Enables stable and high efficiency milling



A Brand® AE-VM

The AE-VM end mills bring you the new standard for milling. Variable lead geometry suppresses vibration and enables stable and high efficiency milling. Along with its substrate of micrograin carbide, it also comes with OSG's newest multi-layer DUARISE coating for superior surface quality. With a full offering including square, corner radius, and long reach, it is sure to cover all your needs.



Features & Benefits

- OSG's **DUARISE coating** provides excellent lubricity, superior friction-resistance and high oxidation temperature. Multi-layered construction minimizes thermal cracks.
- **New flute form**, with high tool rigidity and excellent chip evacuation properties, enables stable milling and the suppression of burrs.
- **Positive rake angle** reduces cutting forces.

List Numbers

Size Range

8200 - A Brand® AE-VMS (Inch)	5/64"-1"
8205 - A Brand® AE-VMS (Metric)	3mm-25mm
8210 - A Brand® AE-CR-VMS (Inch, Corner Radius)	3/16"-1"
8215 - A Brand® AE-CR-VMS (Metric, Corner Radius)	3mm-12mm
8220 - A Brand® AE-LN-CR-VMS (Inch, CR, Long Neck)	1/4"-1"
8206 - A Brand® AE-VMSS (Metric)	3mm-12mm
8230 - A Brand® AE-LN-VMSS (Inch, Long Neck)	1/4"-1"
8235 - A Brand® AE-LN-VMSS (Metric, Long Neck)	6mm-12mm

ISO	Work Material	Recommended
P	Low Carbon Steel : 1010, 1018	⊙
P	Medium Carbon Steel : 1035, 1045	⊙
P	High Carbon Steel : 1065	⊙
P	Alloy Steels : 4140, 4340	⊙
P	Die Steels	⊙
M	Stainless Steels : 300	⊙
M	Stainless Steels : 400	⊙
M	Stainless Steels : 17-4PH	⊙
K	Cast Iron	⊙
N	Aluminum : 6061, 7075	○
N	Aluminum : Casting	○
S	Nickel Alloy : Inconel	○
S	Titanium : 6AL4V (30HRC)	○
H	Hardened Steels : ~35 HRC	⊙
H	Hardened Steels : 35-45 HRC	○
H	Hardened Steels : 45-50 HRC	
H	Hardened Steels : 50-70 HRC	

○ good ⊙ best

More sizes available, scan QR code to view full selection.

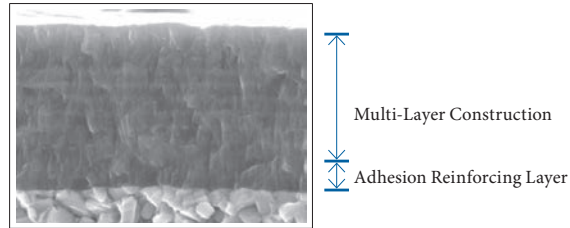
SCAN THE QR CODE TO WATCH MORE!



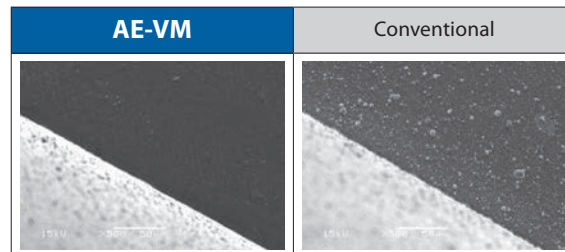
DUARISE Coating

Superior Surface Quality

OSG's DUARISE coating provides excellent lubricity, superior friction-resistance, and high oxidation temperature. Multi-layer construction minimizes the thermal cracks that often occur when using water-soluble oil.



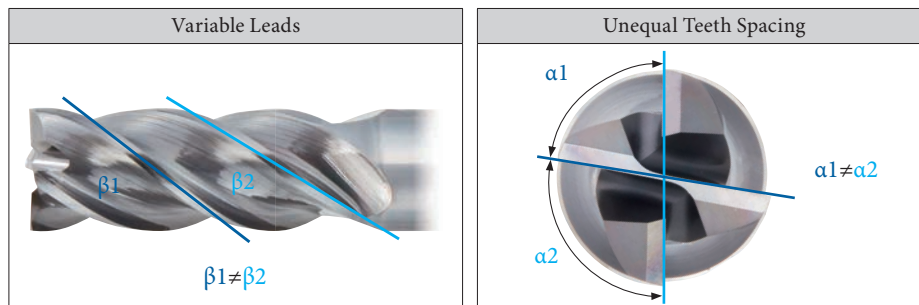
DUARISE Coating Provides Excellent Surface Finish



Vibration Suppression

Stable, High Efficiency Milling

Unequal spacing of teeth and variable-lead geometry enables stable and high efficiency milling.



A Brand[®] AE-VMS

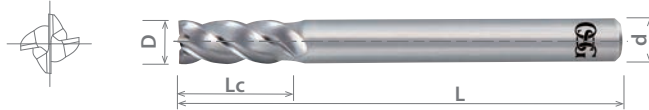
Advanced Performance Carbide End Mills with DUREY Coating

List 8205

AE-VMS, 4 Flute, Regular Length

NEW	SPEED FEED P11-12	CARBIDE	DUR		Var.°	SHRINK FIT
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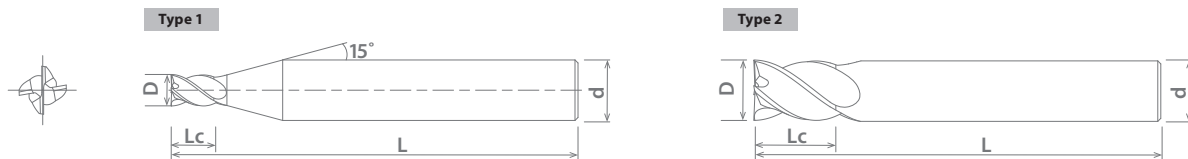
Milling Diameter Tolerance	
D ≤ 12mm	0/-0.020mm
D > 12mm	0/-0.030mm



EDP Number	Mill Diameter	OAL	Length of Cut	Shank Diameter	Type
	D	L	Lc	d	
OSG8555830	3	60	8	6	1
OSG8555860	6	60	13	6	2
OSG8555880	8	70	19	8	2
OSG8555900	10	80	22	10	2

EDP Number	Mill Diameter	OAL	Length of Cut	Shank Diameter	Type
	D	L	Lc	d	
OSG8555920	12	90	26	12	2
OSG8555960	16	100	32	16	2
OSG8555600	20	110	40	20	2
OSG8556010	25	120	50	25	2

Packed: 1 pc. Available Duraise coating only.



List No.	Work Material																
	P					M			K	N		S		H			
	Carbon Steels			Alloy Steels	Die Steels	Stainless Steels ≤200HB			Cast Iron	Aluminum		Nickel Alloy	Titanium	Hardened Steels			
	Low	Med.	High				300	400		17-4 PH		6061	Casting	Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC
8205	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	

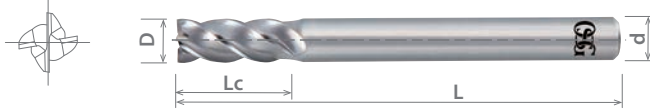
○ good ○ best

A Brand® AE-VMS

Advanced Performance Carbide End Mills with DUOREY Coating

List 8200

AE-VMS, 4 Flute, Multiple Lengths



NEW	SPEED FEED P11-12	CARBIDE	DUR		Var.°	SHRINK FIT
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Milling Diameter Tolerance	
D ≤ 7/16	0/-0.008"
D > 7/16	0/-0.0012"

EDP Number	Mill Diameter	OAL	Length of Cut	Shank Diameter
	D	L	Lc	d
OSG82000221	1/4	2-1/2	7/16	1/4
-	5/16	2-1/2	13/16	5/16
OSG82000621	3/8	2-1/2	1/2	3/8
-	3/8	2-1/2	7/8	3/8
-	7/16	2-3/4	1	7/16
OSG82001221	1/2	2-1/2	5/8	1/2
-	1/2	3	1	1/2
OSG82001621	1/2	3-1/2	1-1/4	1/2
-	5/8	3	3/4	5/8

EDP Number	Mill Diameter	OAL	Length of Cut	Shank Diameter
	D	L	Lc	d
-	5/8	3-1/2	1-1/4	5/8
-	5/8	5	1-5/8	5/8
OSG82002421	3/4	3-1/2	7/8	3/4
-	3/4	4	1-1/2	3/4
OSG82002821	3/4	4	1-5/8	3/4
-	1	4	1-1/2	1
-	1	5	2	1
OSG82003421	1	5	2-1/2	1

Packed: 1 pc. Available Duarise coating only.



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WWW.DGISUPPLY.COM



List No.	Work Material																	
	P					M			K	N		S	H					
	Carbon Steels			Alloy Steels	Die Steels	Stainless Steels ≤200HB			Cast Iron	Aluminum		Nickel Alloy	Titanium	Hardened Steels				
	Low	Med.	High															
	1010 1018	1035 1045	1065	4140 4340		300	400	17-4 PH		6061 7075	Casting	Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC	45-50 HRC	50-70 HRC	
8200	⊙	⊙	○	⊙	⊙	⊙	⊙	⊙	⊙	○	○	○	○	⊙	○	○	○	

○ good ⊙ best

A Brand® AE-BD-H

Feature and Benefits

AE-BD-H

4-Flute High-Precision Finishing Carbide Ball End Mill for High-Hardness Steel

1. Variable Negative Spiral Gash

Controls Chipping

Controls chipping with a larger negative angle at the tip of the cutting edge, while securing cutting quality by making the negative angle weaker near the outer periphery. Chipping resistance is enhanced in combination with the weaker helix angle specification.



2. Thick Center Core

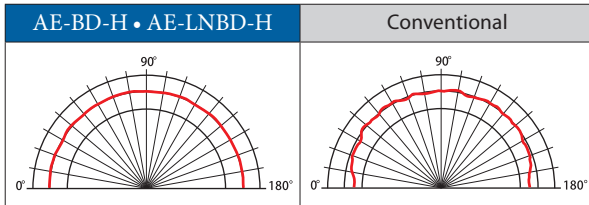
Increased Tool Life and Chip Control

The thickening of the center core prevents deformation of the ball tip and improves control of chipping.

3. Superior Ball R Precision

Superior Ball Radius Precision

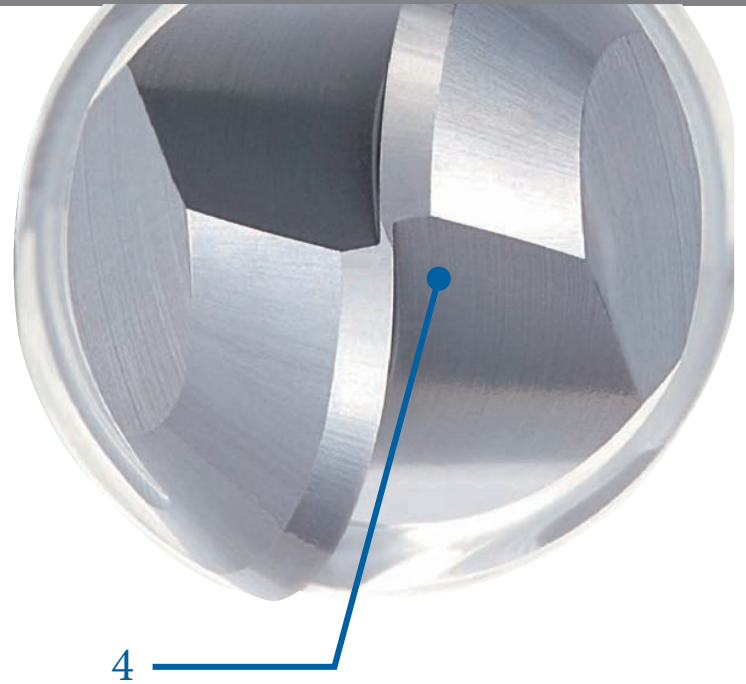
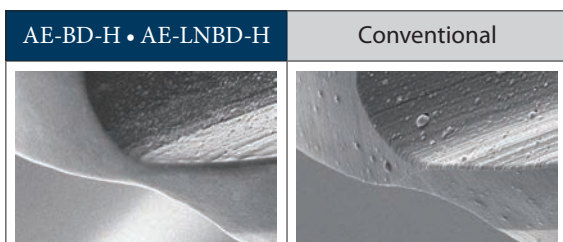
Secures stable R accuracy across 180°.



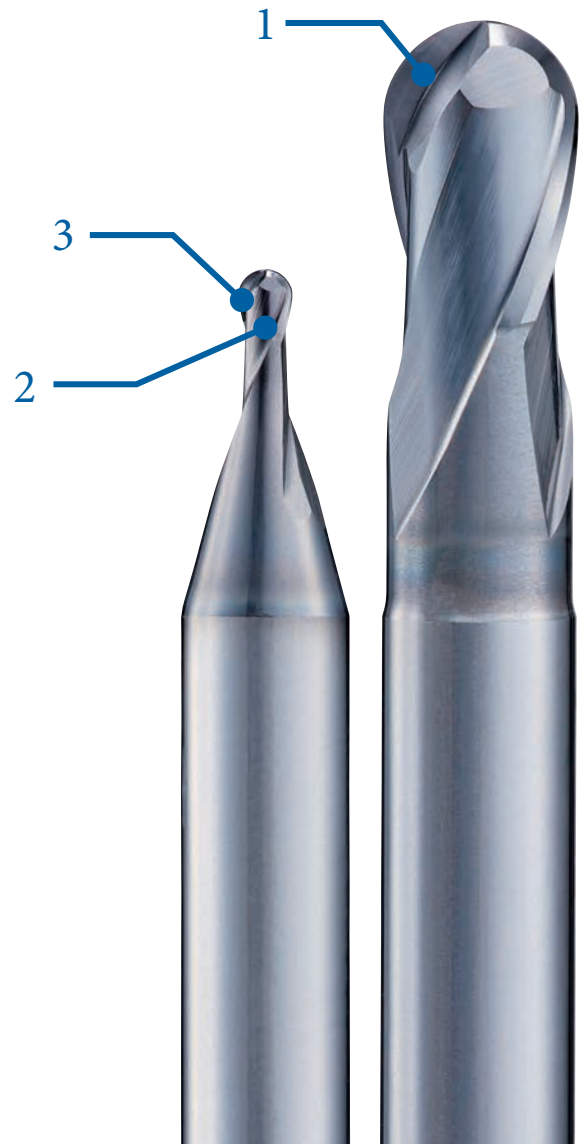
4. Smooth Surface Treatment

Improves Surface Accuracy

The AE-BD-H features a smooth coating surface for improved surface accuracy.



4



1

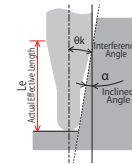
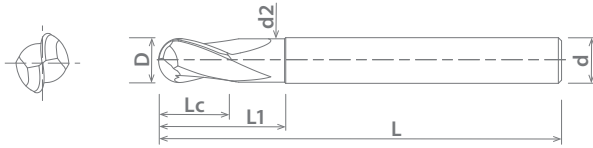
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2

List 8410

AE-BD-H, 2 Flute, Stub Length, Ball End

NEW	SPEED FEED P7	CARBIDE	DUROREY		REG	25°	SHANK h4
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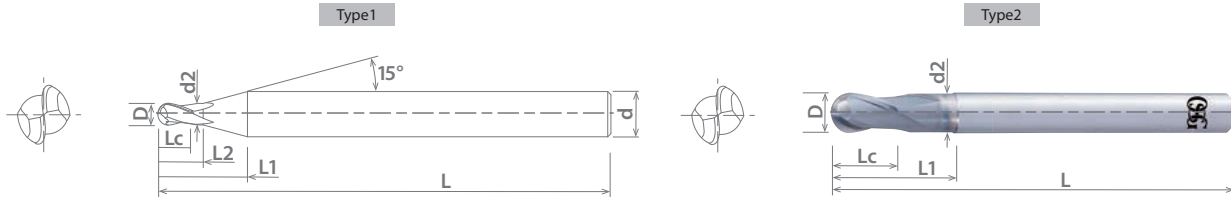


Milling Diameter Tolerance	
1/32 <= D <= 1/2	+/- 0.00028"

Units: Inch

EDP Number	Mill Dia.	OAL	Length of Cut		Neck Length		Non-Tapered	Neck Dia	Interference Angle	Effective Neck Length by Incline Angle					Shank Dia.	Type
	D	L	Lc	L1	L2	d2	α	0.5°	1.0°	1.5°	2.0°	3.0°	d			
OSG84100023	1/32	1 1/2	0.024	0.512	0.094	0.029	12.39	0.105	0.108	0.112	0.115	0.124	1/4	1		
OSG84100123	1/16		0.051	0.520	0.157	0.060	10.39	0.172	0.178	0.183	0.189	0.202				
OSG84100223	3/32		0.075	0.504	0.189	0.092	8.89	0.208	0.218	0.228	0.237	0.255				
OSG84100323	1/8		2	0.098	0.508	0.252	0.123	7.03	0.274	0.286	0.297	0.308			0.329	
OSG84100423	3/16		2 1/2	0.150	0.425	0.283	0.185	4.19	0.305	0.317	0.328	0.339			0.36	
OSG84100523	1/4	3	0.374	0.504	-	0.246	-	-	-	-	-	-	5/16	2		
OSG84100623	5/16	3 1/2	0.469	0.630		0.308										
OSG84100723	3/8		0.563	0.756		0.371										
OSG84100823	1/2		4	0.752		1.000									0.496	

Packed: 1 pc.
Available DUROREY coating only.



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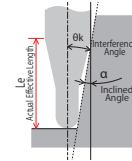
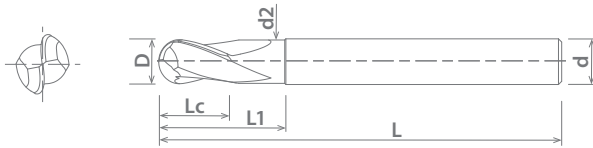
A Brand® AE-BD-H

Advanced Performance Carbide End Mills with DUREY Coating

List 8510

AE-BD-H, 2 Flute, Stub Length, Ball End

NEW	SPEED FEED P7	CARBIDE	DUREY	REG	25°	SHANK h4
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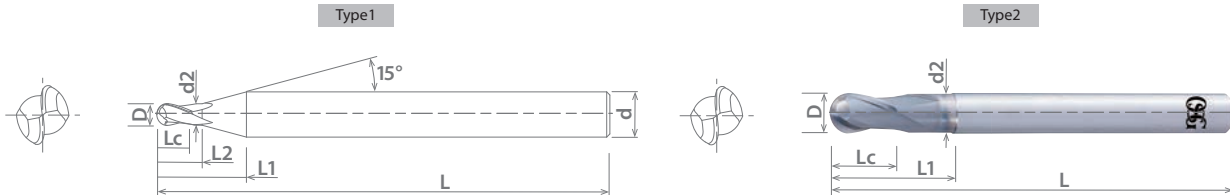


Milling Radius Tolerance	
0.2 < D < 12	+/- 0.005mm

Units: mm

EDP Number	Mill Dia.	OAL	Length of Cut	Neck Length	Non-Tapered	Neck Dia	Interference Angle	Effective Neck Length by Incline Angle					Shank Dia.	Type
								0.5°	1.0°	1.5°	2.0°	3.0°		
OSG85100023	0.2	40	0.16	7.31	0.20	0.19	14.78°	0.21	0.23	0.24	0.25	0.28	4	1
OSG85100123	0.8		0.60	7.66	1.60	0.75	12.50°	1.70	1.74	1.79	1.84	1.93		
OSG3042001	1		0.80	7.70	2.00	0.95	11.71°	2.14	2.20	2.26	2.33	2.48		
OSG85100223	1.4	1.10	7.74	2.80	1.35	10.50°	2.95	3.02	3.07	3.13	3.27			
OSG3042002	1.5	1.20	7.90	3.00	1.45	10.03°	3.17	3.25	3.34	3.44	3.66			
OSG3042003	2	1.60	12.00	4.00	1.95	10.64°	4.19	4.30	4.42	4.55	4.85			
OSG85100323	2.5	2.00	8.08	5.00	2.35	6.46°	5.21	5.31	5.43	5.54	5.82	4	1	
OSG3042004	3	2.40	11.90	6.00	2.85	8.15°	6.44	6.61	6.79	7.00	7.45	6		
OSG3042005	4	60	3.40	-	8.00	3.85	-	-	-	-	-	-	4	2
OSG3042006				12.10			5.65°	8.49	8.71	8.96	9.22	9.81	6	1
OSG3042008	5	80	4.20	12.20	10.00	4.80	2.92°	10.63	10.90	11.22	11.55	-	6	2
OSG3042010	6	90	9.00	-	-	5.80	-	-	-	-	-	-	-	
OSG3042012	8	100	12.00	-	-	7.70	-	-	-	-	-	-	8	
OSG3042014	10		15.00	-	-	9.70	-	-	-	-	-	-	10	
OSG3042016	12		18.00	-	-	11.70	-	-	-	-	-	-	12	

Packed: 1 pc.
Available DUREY coating only.



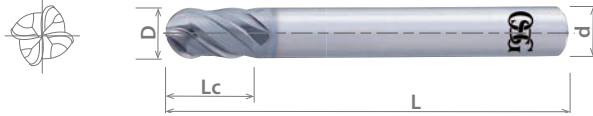
List No.	Work Material																	
	P					M			K	N		S		H				
	Carbon Steels			Alloy Steels	Die Steels	Stainless Steels ≤200HB			Cast Iron	Aluminum		Nickel Alloy	Titanium	Hardened Steels				
	Low	Med.	High															
	1010 1018	1035 1045	1065	4140 4340				300 400 17-4 PH		6061 7075	Casting	Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC	45-50 HRC	50-70 HRC	
8510	⊙	⊙	⊙	⊙	⊙	○	○	○	⊙					⊙	⊙	⊙	⊙	

○ good ⊙ best

List 8430

AE-BM-H, 4 Flute, Regular Length, Ball End

NEW	SPEED FEED P7	CARBIDE	DUOREY		REG	40°	SHANK h4
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Milling Diameter Tolerance	
D < 1/4	+/- 0.00028"
1/4 <= D	+/- 0.00039"

Units: Inch

EDP Number	Mill Dia.	OAL	Length of Cut	Shank Dia.
	D	L	Lc	d
OSG84300023	1/8	2	1/4	1/8
OSG84300123	3/16	2 1/2	3/8	3/16
OSG84300223	1/4	3 1/2	1/2	1/4
OSG84300323	5/16	4	5/8	5/16
OSG84300423	3/8	4	3/4	3/8
OSG84300523	1/2	4 3/8	7/8	1/2

Packed: 1 pc.
Available DUOREY coating only.



Work Material

List No.	P				Die Steels	M			K Cast Iron	N		S		H			
	Carbon Steels			Alloy Steels 4140 4340		Stainless Steels ≤200HB				Aluminum		Nickel Alloy Inconel	Titanium 6Al4V (30 HRC)	Hardened Steels			
	Low 1010 1018	Med. 1035 1045	High 1065			300	400	17-4 PH		6061 7075	Casting			~35 HRC	35-45 HRC	45-50 HRC	50-70 HRC
8430	⊙	⊙	⊙	⊙	⊙	○	○	○	⊙				⊙	⊙	⊙	⊙	

○ good ⊙ best

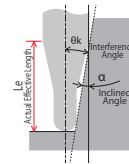
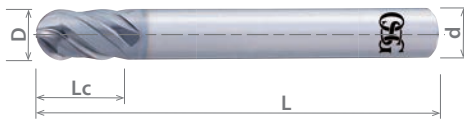
A Brand® AE-BM-H

Advanced Performance Carbide End Mills with DUOREY Coating

List 8530

AE-BM-H, 4 Flute, Regular Length, Ball End

NEW SPEED FEED P7 CARBIDE DUOREY REG 40° SHANK h4

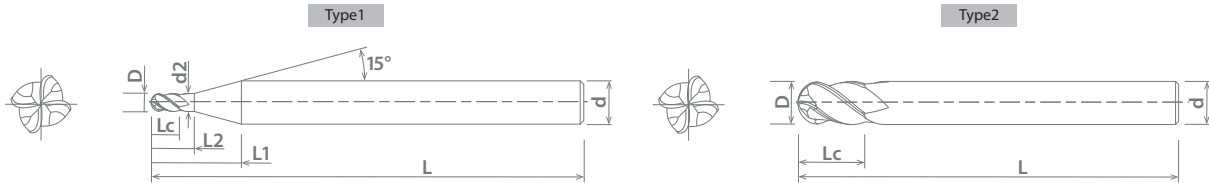


Milling Diameter Tolerance	
D ≤ 3	+/- 0.005mm
3 < D ≤ 6	+/- 0.007mm
6 < D	+/- 0.010mm

Units: mm

EDP Number	Mill Dia.	OAL	Length of Cut	Neck Length	Non-Tapered Neck Length		Neck Dia	Interference Angle	Effective Neck Length by Incline Angle					Shank Dia.	Type
					L2	d2			0.5°	1.0°	1.5°	2.0°	3.0°		
OSG85300023	1	50	2	8	2	0.95	11.85°	2.13	2.19	2.25	2.32	2.46	4	1	
OSG85300123	1.5		3		3	1.45	10.15°	2.64	2.71	2.78	2.85	3.02			
OSG8549602	2		2		4	1.95	10.64°	4.19	4.30	4.42	4.55	4.85			
OSG85300223	2.5	60	5	12	5	2.45	9.57°	5.32	5.40	5.52	5.64	5.81	6		
OSG8549603	3		3		6	2.85	8.15°	6.44	6.61	6.79	7.00	7.45			
OSG8549604	4		4		8	3.85	5.65°	8.49	8.71	8.96	9.22	9.81			
OSG8549605	5	70	5	12.2	10	4.85	2.95°	10.54	10.82	11.12	11.45	-	8		
OSG8549606	6		9		-	-	-	-	-	-	-			-	
OSG8549608	8		12		-	-	-	-	-	-	-			-	
OSG8549610	10	80	15	-	-	-	-	-	-	-	-	10	2		
OSG8549612	12	90	18	-	-	-	-	-	-	-	-	12			

Packed: 1 pc.
Available DUOREY coating only.



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List No.	Work Material																
	P					M			K	N		S		H			
	Carbon Steels			Alloy Steels	Die Steels	Stainless Steels ≤200HB			Cast Iron	Aluminum		Nickel Alloy	Titanium	Hardened Steels			
	Low	Med.	High			300	400	17-4 PH			6061	Casting	Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC	45-50 HRC
8530	⊙	⊙	⊙	⊙	○	○	○	⊙					⊙	⊙	⊙	⊙	

○ good ⊙ best

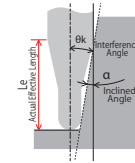
A Brand® AE-LMBD-H

Advanced Performance Carbide End Mills with DUREY Coating

List 8590

AE-LNBD-H, 2 Flute, Stub Length, Long Neck, Ball End, Rib Processing

NEW	SPEED FEED P7	CARBIDE	DUREY	STUB	30°	SHANK h4
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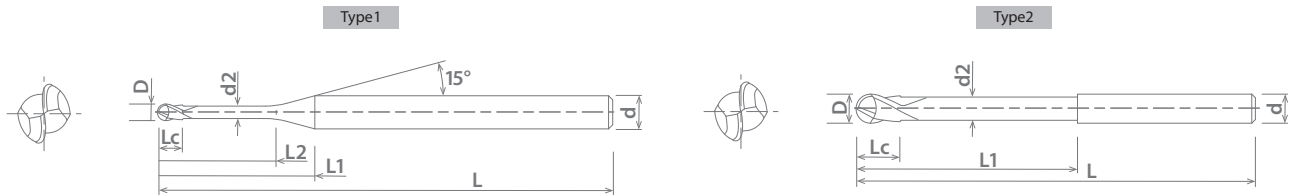


Milling Diameter Tolerance	
D ≤ 0.5	+/- 0.003mm
0.5 < D	+/- 0.005mm

Units: mm

EDP	Mill Dia.	OAL	Length of Cut	Neck Length	Non-Tapered Neck Length	Neck Dia	Interference Angle	Effective Neck Length (Le) by Incline Angle (α)					Shank Dia.	Type
	D	L	Lc	L1	L2	d2	∅k	0.5°	1.0°	1.5°	2.0°	3.0°	d	
OSG3056101	0.1	45	0.08	7.60	0.30	0.095	14.52°	0.30	0.31	0.32	0.33	0.36	4	1
OSG3056102				7.80	0.50		14.16°	0.51	0.53	0.54	0.56	0.60		
OSG3056104	7.60			0.50	14.18°		0.53	0.54	0.56	0.58	0.62			
OSG3056105	7.90			0.75	13.74°		0.79	0.81	0.84	0.86	0.93			
OSG3056106	8.10			1.00	13.33°		1.04	1.08	1.11	1.15	1.24			
OSG3056109	8.60			1.50	12.58°		1.56	1.61	1.67	1.73	1.86			
OSG3056110	8.90		1.75	12.23°	1.82	1.88	1.94	2.01	2.17					
OSG3056111	9.10		2.00	11.9°	2.08	2.15	2.22	2.30	2.48					
OSG3056115	7.50		0.60	14.06°	0.63	0.65	0.66	0.68	0.73					
OSG3056117	7.90		1.00	13.36°	1.04	1.07	1.11	1.14	1.23					
OSG3056118	8.20		1.25	12.96°	1.30	1.34	1.39	1.43	1.54					
OSG3056119	8.40		1.50	12.59°	1.56	1.61	1.66	1.72	1.85					
OSG3056122	0.3		0.24	0.290	8.90	2.00	11.89°	2.08	2.14	2.22	2.29	2.47		
OSG3056124					9.40	2.50	11.27°	2.59	2.68	2.77	2.87	3.09		
OSG3056125					9.90	3.00	10.71°	3.11	3.21	3.32	3.44	3.71		
OSG3056127					10.90	4.00	9.74°	4.14	4.28	4.43	4.59	4.96		
OSG3056129					11.90	5.00	8.93°	5.18	5.35	5.54	5.74	6.20		
OSG3056132					7.60	0.80	13.71°	0.85	0.88	0.90	0.93	0.99		
OSG3056133	7.80		1.00	13.37°	1.06	1.09	1.12	1.16	1.24					
OSG3056135	8.30		1.50	12.57°	1.58	1.63	1.68	1.73	1.86					
OSG3056136	8.80		2.00	11.86°	2.09	2.16	2.23	2.31	2.48					
OSG3056138	9.30		2.50	11.22°	2.61	2.70	2.79	2.88	3.10					
OSG3056139	9.80		3.00	10.65°	3.13	3.23	3.34	3.46	3.72					
OSG3056140	10.30		3.50	10.14°	3.64	3.76	3.89	4.03	4.35					
OSG3056141	10.80	4.00	9.67°	4.16	4.30	4.45	4.61	4.97						
OSG3056143	11.80	5.00	8.85°	5.20	5.37	5.56	5.76	6.21						
OSG3056145	12.80	6.00	8.15°	6.23	6.44	6.66	6.91	7.45						
OSG3056147	7.60	1.00	13.4°	1.06	1.09	1.12	1.15	1.23						
OSG3056148	8.10	1.50	12.58°	1.58	1.62	1.67	1.73	1.85						
OSG3056149	8.60	2.00	11.85°	2.09	2.16	2.23	2.30	2.47						
OSG3056150	9.10	2.50	11.2°	2.61	2.69	2.78	2.88	3.09						
OSG3056151	9.60	3.00	10.62°	3.13	3.23	3.33	3.45	3.71						
OSG3056152	10.10	3.50	10.09°	3.64	3.76	3.89	4.03	4.33						
OSG3056153	10.60	4.00	9.61°	4.16	4.30	4.44	4.60	4.95						
OSG3056154	11.10	4.50	9.18°	4.68	4.83	5.00	5.18	5.58						
OSG3056155	11.60	5.00	8.78°	5.19	5.37	5.55	5.75	6.20						
OSG3056157	12.60	6.00	8.08°	6.23	6.44	6.66	6.90	7.44						
OSG3056159	14.60	8.00	6.97°	8.29	8.58	8.88	9.20	9.93						
OSG3056161	16.60	10.00	6.12°	10.36	10.71	11.09	11.50	12.41						

Packed: 1 pc.
Available DUREY coating only.



List No.	Work Material																
	P					M			K	N		S		H			
	Carbon Steels			Alloy Steels	Die Steels	Stainless Steels ≤200HB			Cast Iron	Aluminum		Nickel Alloy	Titanium	Hardened Steels			
8590	Low 1010 1018	Med. 1035 1045	High 1065	4140 4340	300	400	17-4 PH		6061 7075	Casting	Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC	45-50 HRC	50-70 HRC	
	⊙	⊙	⊙	⊙	○	○	○	○					⊙	⊙	⊙	⊙	

○ good ⊙ best

A Brand® AE-LMBD-H

Advanced Performance Carbide End Mills with DUROREY Coating

List 8590 (Continued)

AE-LMBD-H, 2 Flute, Stub Length, Long Neck, Ball End, Rib Processing

NEW	SPEED FEED P7	CARBIDE	DUROREY		STUB	30°	SHANK h4
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Milling Diameter Tolerance	
D ≤ 0.5	+/- 0.003mm
0.5 < D	+/- 0.005mm



Units: mm

EDP	Mill Dia.	OAL	Length of Cut	Neck Length	Non-Tapered Neck Length	Neck Dia.	Interference Angle	Effective Neck Length (Le) by Incline Angle (α)					Shank Dia.	Type							
	D	L	Lc	L1	L2	d2	θk	0.5°	1.0°	1.5°	2.0°	3.0°	d								
OSG3056164	0.6	45	0.50	7.60	1.20	0.550	12.99°	1.32	1.36	1.40	1.44	1.53	4	1							
OSG3056166				8.40	2.00		11.76°	2.15	2.21	2.28	2.36	2.53									
OSG3056168				8.90	2.50		11.1°	2.67	2.75	2.84	2.93	3.15									
OSG3056169				9.40	3.00		10.51°	3.70	3.82	3.95	4.08	4.39									
OSG3056171				9.90	3.50		9.98°	4.22	4.35	4.50	4.66	5.01									
OSG3056172				10.40	4.00		9.5°	5.25	5.42	5.61	5.81	6.26									
OSG3056175				11.40	5.00		8.67°	5.77	5.96	6.16	6.38	6.88									
OSG3056176				11.90	5.50		8.3°	6.28	6.49	6.72	6.96	7.50									
OSG3056177				12.40	6.00		7.96°	6.80	7.03	7.27	7.53	8.12									
OSG3056178				12.90	6.50		7.65°	7.35	7.63	7.93	8.26	8.99									
OSG3056181				14.40	8.00		6.85°	8.35	8.63	8.93	9.26	9.99									
OSG3056185				16.40	10.00		6.01°	10.42	10.77	11.15	11.56	12.47									
OSG3056187				50	18.40		12.00	5.36°	12.49	12.91	13.37	13.86			14.96						
OSG3056190				0.8	0.60		0.60	8.10	2.00	0.750	11.74°	2.15			2.21	2.27	2.34	2.50	4	1	
OSG3056193								9.10	3.00		10.42°	3.18			3.28	3.38	3.49	3.75			
OSG3056194								10.10	4.00		9.37°	4.21			4.35	4.49	4.64	4.99			
OSG3056195	11.10	5.00	8.51°			5.25		5.42	5.60		5.79	6.23									
OSG3056196	12.10	6.00	7.8°			6.28		6.49	6.71		6.94	7.48									
OSG3056197	13.10	7.00	7.19°			7.31		7.55	7.81		8.09	8.72									
OSG3056198	14.10	8.00	6.67°			8.35		8.62	8.92		9.24	9.96									
OSG3056200	16.10	10.00	5.83°			10.41		10.76	11.14		11.54	12.45									
OSG3056203	1.0	45	0.80	7.70	2.00	0.950	11.71°	2.14	2.20	2.26	2.33	2.48	4	1							
OSG3056206				8.70	3.00		10.33°	3.18	3.27	3.37	3.48	3.72									
OSG3056208				9.70	4.00		9.23°	4.21	4.34	4.48	4.63	4.97									
OSG3056210				10.70	5.00		8.35°	5.24	5.41	5.59	5.78	6.21									
OSG3056212				11.70	6.00		7.62°	6.28	6.48	6.69	6.93	7.45									
OSG3056214				12.70	7.00		7°	7.31	7.55	7.80	8.08	8.69									
OSG3056216				13.70	8.00		6.48°	8.34	8.62	8.91	9.23	9.94									
OSG3056218				14.70	9.00		6.03°	9.38	9.69	10.02	10.38	11.18									
OSG3056219				15.70	10.00		5.64°	10.41	10.76	11.13	11.53	12.42									
OSG3056221				17.70	12.00		4.99°	12.48	12.90	13.34	13.83	14.91									
OSG3056223				50	19.70		14.00	4.47°	14.55	15.04	15.56	16.13			17.40	4.05°	16.61	17.18	17.78	18.43	19.88
OSG3056224																					
OSG3056225				60	23.70		18.00	3.41°	20.75	21.45	22.21	23.03			24.86						
OSG3056226																27.70	22.00	3.16°	22.82	23.59	24.43
OSG3056227				1.2	45		1.00	7.70	2.40	1.150	11.04°	2.55			2.62						
OSG3056231								9.30	4.00		9.08°	4.21			4.33	4.47	4.61	4.94			
OSG3056234	11.30	6.00	7.42°			6.27		6.47	6.68		6.91	7.43									
OSG3056237	13.30	8.00	6.27°			8.34		8.61	8.90		9.21	9.91									
OSG3056238	15.30	10.00	5.43°			10.41		10.75	11.12		11.51	12.40									
OSG3056243	25.30	20.00	3.24°			20.74		21.45	22.20		23.01	24.83									
OSG3056246	55	1.20	1.450			7.80		3.00	1.450		10.03°	2.65	2.72	2.79	2.87	3.04	4	1			
OSG3056248						8.80		4.00			8.81°	4.20	4.32	4.45	4.59	4.91					
OSG3056251				10.80	6.00	7.09°	6.27	6.46		6.67	6.89	7.39									
OSG3056253				12.80	8.00	5.93°	8.34	8.60		8.88	9.19	9.88									
OSG3056255				14.80	10.00	5.09°	10.40	10.74		11.10	11.49	12.36									
OSG3056256				50	18.80	14.00	3.97°	14.54		15.02	15.53	16.09	17.34								
OSG3056257														55	20.80	16.00			3.58°	16.60	17.16
OSG3056258				60	22.80	18.00	3.25°	18.67		19.30	19.97	20.69	22.31								
OSG3056259	70	24.80	20.00						2.98°					20.74	21.44	22.18	22.99	-			
OSG3056261				26.80	22.00	2.75°	22.81	23.58		24.40	25.29	-									
OSG3056263	34.80	30.00	2.11°						31.08				32.13	33.27	34.49	-					
OSG3056265	1.6	45	1.30	12.60	8.00	1.550	5.81°	8.33	8.60	8.88	9.18	9.87	4	1							
OSG3056266				16.60	12.00		4.35°	12.47	12.88	13.31	13.78	14.84									
OSG3056267				20.60	16.00		3.47°	16.60	17.15	17.75	18.38	19.81									
OSG3056268				24.60	20.00		2.89°	20.74	21.43	22.18	22.98	-									
OSG3056272	2.0	45	1.60	7.80	4.00	1.950	8.25°	4.19	4.30	4.42	4.55	4.85	4	1							
OSG3056275				9.80	6.00		6.43°	6.26	6.44	6.64	6.85	7.33									

Packed: 1 pc.
Available DUROREY coating only.



A Brand® AE-LMBD-H

Advanced Performance Carbide End Mills with DUOREY Coating

List 8590 (Continued)

NEW	SPEED FEED P7	CARBIDE	DUOREY		STUB	30°	SHANK h4
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AE-LNBD-H, 2 Flute, Stub Length, Long Neck, Ball End, Rib Processing

Units: mm

EDP	Mill Dia.	OAL	Length of Cut	Neck Length	Non-Tapered Neck Length	Neck Dia.	Interference Angle	Effective Neck Length (Le) by Incline Angle (α)					Shank Dia.	Type	
	D	L	Lc	L1	L2	d2	∅k	0.5°	1.0°	1.5°	2.0°	3.0°	d		
OSG3056277	2.0	45	1.60	11.80	8.00	1.950	5.26°	8.33	8.58	8.86	9.15	9.82	4		
OSG3056279				13.80	10.00		4.45°	10.39	10.72	11.07	11.45	12.31			
OSG3056281				15.80	12.00		3.86°	12.46	12.86	13.29	13.75	14.79			
OSG3056284				50	17.80		14.00	3.4°	14.53	15.00	15.51	16.05			17.28
OSG3056285					19.80		16.00	3.04°	16.60	17.14	17.72	18.35			19.76
OSG3056288		23.80			20.00		2.51°	20.73	21.42	22.16	22.95				
OSG3056290		25.80			22.00		2.31°	22.80	23.56	24.37	25.25				
OSG3056291		28.80			25.00		2.06°	25.90	26.77	27.70	28.70				
OSG3056293		70		33.80	30.00		1.75°	31.07	32.12	33.24					
OSG3056294				38.80	35.00		1.52°	36.24	37.46	38.78					
OSG3056295	43.80		40.00	1.34°	41.40	42.81									
OSG3056298	45		13.10	10.00	3.62°	10.58	10.90	11.25	11.63	12.48					
OSG3056299	50		18.10	15.00	2.55°	15.75	16.25	16.80	17.38						
OSG3056300	2.5	55	23.10	20.00	1.97°	20.92	21.60	22.34							
OSG3056303		70	38.10	35.00	1.17°	36.42	37.65								
OSG3056304		11.90	6.00	8.15°	6.44	6.61	6.79	7.00	7.45						
OSG3056305	50	13.90	8.00	6.87°	8.50	8.75	9.01	9.29	9.93						
OSG3056306		15.90	10.00	5.93°	10.57	10.89	11.23	11.59	12.42						
OSG3056307		17.90	12.00	5.22°	12.64	13.03	13.44	13.89	14.91						
OSG3056309		3.0	55	2.40	19.90	14.00	4.66°	14.71	15.17	15.66	16.19	17.39	1		
OSG3056310					20.90	15.00	4.42°	15.74	16.24	16.77	17.34	18.63			
OSG3056311	21.90				16.00	4.2°	16.77	17.31	17.88	18.49	19.88				
OSG3056312	25.90				20.00	3.52°	20.91	21.58	22.31	23.09	24.85				
OSG3056313	30.90				25.00	2.92°	26.08	26.93	27.85	28.84					
OSG3056314	35.90	30.00	2.5°	31.24	32.28	33.39	34.59								
OSG3056318	3.5	55	2.80	19.90	15.00	3.350	3.92°	15.73	16.22	16.74	17.31	18.58	6		
OSG3056327	4.0	60	3.20	12.00	8.00	5.65°	8.49	8.71	8.96	9.22	9.81				
OSG3056328				14.00	10.00	4.73°	10.55	10.85	11.17	11.52	12.30				
OSG3056329				16.00	12.00	4.07°	12.62	12.99	13.39	13.82	14.79				
OSG3056333				20.00	16.00	3.17°	16.76	17.27	17.82	18.42	19.76				
OSG3056334				24.00	20.00	2.6°	20.89	21.55	22.26	23.02					
OSG3056335		29.00		25.00	2.12°	26.06	26.90	27.80	28.77						
OSG3056336		80		34.00	30.00	1.79°	31.23	32.25	33.34						
OSG3056337				39.00	35.00	1.55°	36.40	37.60	38.88						
OSG3056338				44.00	40.00	1.37°	41.56	42.94							
OSG3056339				49.00	45.00	1.22°	46.73	48.29							
OSG3056341	12.10		10.00	2.95°	10.54	10.82	11.12	11.45							
OSG3056342	5.0	60	4.00	17.10	15.00	1.95°	15.71	16.17							
OSG3056344				27.10	25.00	1.17°	26.04	26.86							
OSG3056345				32.10	30.00	0.97°	31.21								
OSG3056347				42.10	40.00	0.73°	41.55								
OSG3056351				6.0	80	4.80	-	12.00						16.66	
OSG3056353	-	20.00													
OSG3056355	-	30.00													
OSG3056356	-	35.00													
OSG3056358	-	45.00													
OSG3056359	-	120	-	50.00											

Packed: 1 pc.
Available DUOREY coating only.



List No.	Work Material																
	P					M			K	N		S		H			
	Carbon Steels			Alloy Steels	Die Steels	Stainless Steels ≤200HB			Cast Iron	Aluminum	Nickel Alloy	Titanium	Hardened Steels				
	Low	Med.	High	4140 4340		300	400	17-4 PH		6061 7075	Casting	Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC	45-50 HRC	50-70 HRC
8590	⊙	⊙	⊙	⊙	⊙	○	○	○	○					⊙	⊙	⊙	⊙

○ good ⊙ best



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