



Advanced Performance High Feed 3-Flute Carbide Drills

Vol 1

ADO-TRS

ADO-TRS 3D & 5D



The A Brand Story

The A Brand® represent 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 a premium tooling brand that represents OSG's quality assurance guarantee to each and every customer. The A Brand® products have been developed with attention to the finest details, while incorporating a versatility to enable a wide range of processing in various materials. With the capability to perform difficult processing tasks, and high efficiency the A Brand® products lend to shortened production time and cost savings.

The A Brand® products have been developed with OSG's latest tooling innovations in threading, drilling, and milling to bring an unparalleled experience to our manufacturers with the highest level of quality, reliability, and satisfaction that can only be delivered by the A Brand®, the tooling master class.



The Tooling Master Class

Innovations for shaping the future of global manufacturing



The A Brand *The Tooling Master Class*

LINE-UP

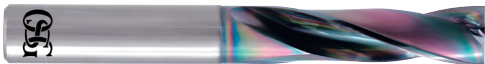
The A Brand is not only a premium tooling brand, it also represents the quality assurance OSG guarantees to each and every customer.

To better accommodate evolving manufacturing needs, the A Brand offering has been expanded. Whether you are looking for better tools or need assistance in choosing the right tool, give one of the A Brand products a try. You will experience a level of quality, reliability and satisfaction that can only be delivered by the A Brand tooling master class.

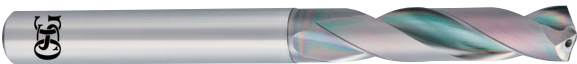
A-DRILL



A Brand® ADO-TRS 3D & 5D



A Brand® ADF • ADFO • ADFL



A Brand® ADO 3-50D



A Brand® AD 2D & 4D



A Brand® ADO-SUS 3-8D



A Brand® AD-LDS



A Brand® ADO-MICRO 2-30D

A-TAP



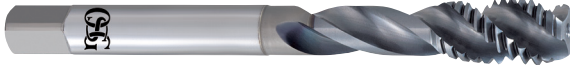
A Brand® AT-1



A Brand® A-CSF



A Brand® A-CHT



A Brand® A-SFT • A-OIL-SFT • A-LT-SFT



A Brand® A-POT • A-OIL-POT • A-LT-POT



A Brand® A-PIPE

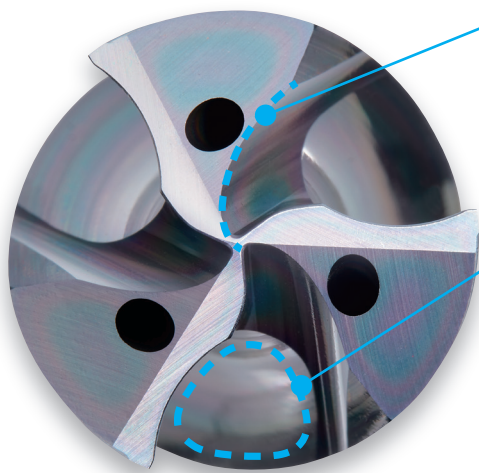
A-END MILL



A Brand® AE-BD-H • AE-BM-H • AE-LNBD-H



A Brand® AE-VMS • AE-CR-VMS • AE-LN-CR-VMS
AE-VMSS • AE-LN-VMSS • AE-VML • AE-NIK-VML



R Gash Geometry

Enables low cutting resistance compared to 2-flute drills, and breaks chips into small manageable pieces.

Wide Flutes

Large chip pockets enable smooth chip evacuation.

EgiAs Coating

for exceptional wear resistance and toughness.

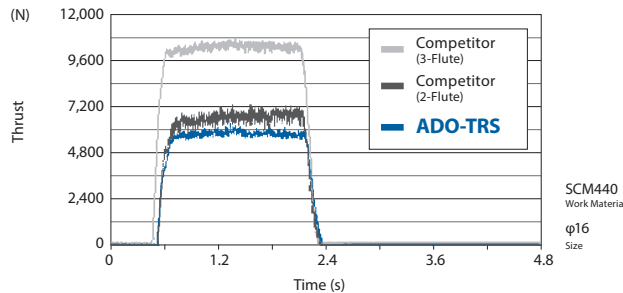


The New Standard of 3-Flute Drills

3 Advantages of a 3-Flute Design

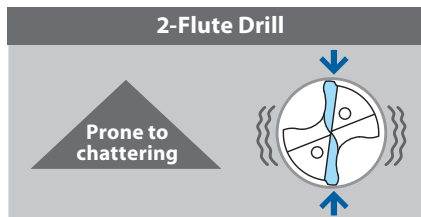
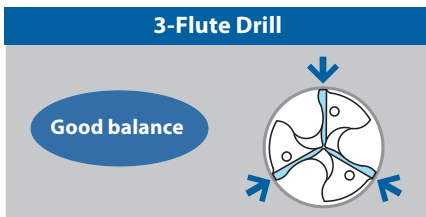
Lower Thrust Force:

ADO-TRS reduces thrust force by over 30% against the competitor's 3-flute drill, while also producing lower thrust force than even the competitor's 2-flute drill.



High Precision & Hole Quality:

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



Outstanding Chip Management:

ADO-TRS produces small, consistent chips that can be easily evacuated, while the competitor's 3-flute & 2-flute drills' chips are elongated, which is the most common cause of chip evacuation difficulty.

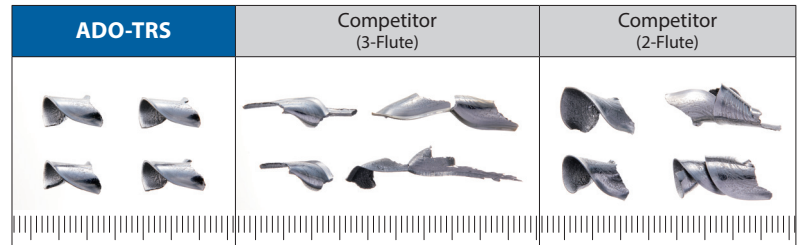
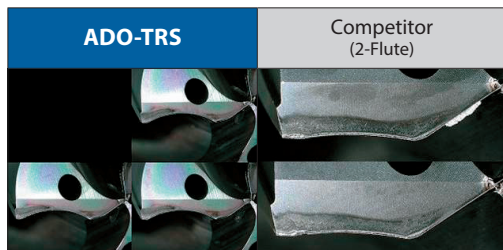
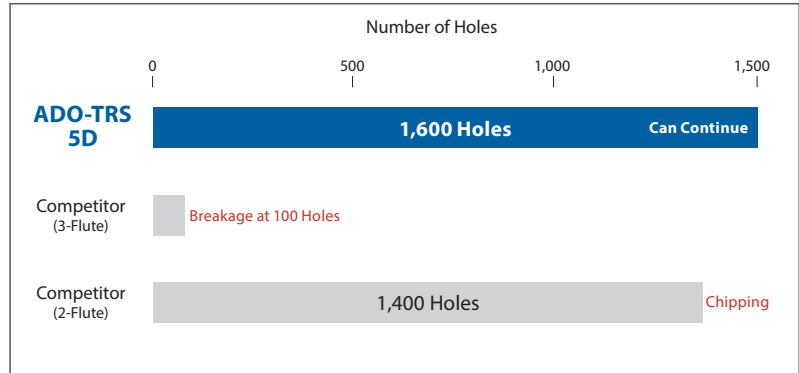


Tool Life in Carbon Steel

1050 Carbon Steel

Outstanding cutting chip breakage and consistent chip form.

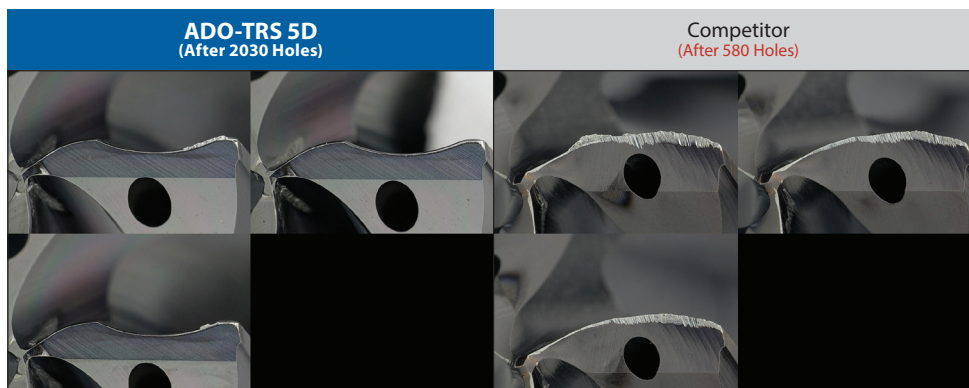
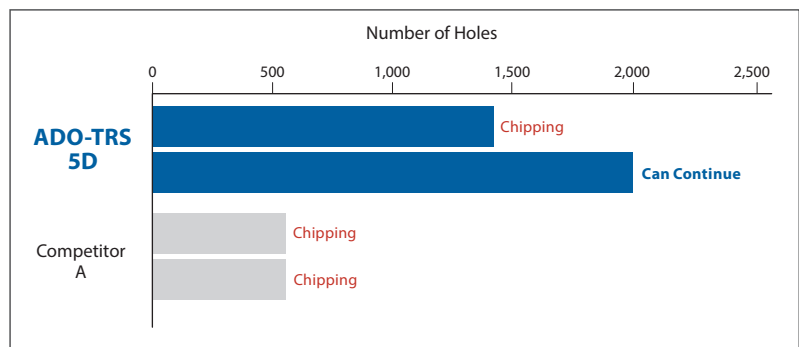
Tool	ADO-TRS 5D	Competitor (3-Flute)	Competitor (2-Flute)
Drill Size	Ø14		
Work Material	1050 Carbon Steel		
Cutting Speed	330 SFM (2,275 RPM)		
Feed Rate	53.7 IPM (0.024 in/rev)	38.0 IPM (0.015 in/rev)	
Depth of Hole	2.756" (Blind)		
Coolant	Water-Soluble		
Machine	Horizontal Machining Center		



Tool Life in Cast Iron

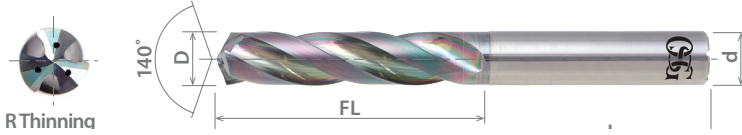
Gray Cast Iron

Tool	ADO-TRS 5D	Competitor A
Drill Size	Ø8.5mm	
Work Material	Gray Cast Iron	
Cutting Speed	230 SFM (2,625 RPM)	
Feed Rate	44.6 IPM (0.017 IPR)	
Depth of Hole	43 mm	
Coolant	Water Soluble	
Machine	Vertical Machining Center	



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	Status		
	Fractional Size	Wire Gage	Letter Size	mm	Inch						
8720300	-	-	-	3.000	0.11811	18	66	3	●		
660012517	1/8	-	-	3.175	0.12500	20	74	1/8	●		
8720330	-	-	-	3.300	0.12992	21		4	●		
660013217	-	-	-	3.360	0.13228				●		
660013517	-	-	-	3.440	0.13543	●					
8720350	-	-	-	3.500	0.13780	22			●		
660013817	-	-	-	3.520	0.13858				●		
660014017	-	-	-	3.570	0.14055	23			●		
8720366	-	-	-	3.660	0.14409				●		
660014817	-	-	-	3.770	0.14843	24			●		
8720386	-	-	-	3.860	0.15197				●		
660015617	5/32	-	-	3.969	0.15625	25	5/32		●		
8720400	-	-	-	4.000	0.15748		74	4	●		
660015917	-	-	-	4.050	0.15945			6	●		
660016117	-	20	-	4.089	0.16100				●		
8720410	-	-	-	4.100	0.16142				●		
660016317	-	-	-	4.160	0.16378				26	●	
8720420	-	-	-	4.200	0.16535					●	
660016817	-	-	-	4.270	0.16811				27	●	
8720430	-	-	-	4.300	0.16929					●	
660017217	11/64	-	-	4.366	0.17188				80	3/16	●
8720440	-	-	-	4.400	0.17323	6				●	
660017517	-	-	-	4.460	0.17559		28			●	
8720450	-	-	-	4.500	0.17717			●			
8720460	-	-	-	4.600	0.18110		29	●			
660018317	-	-	-	4.660	0.18346			●			
8720470	-	-	-	4.700	0.18504		30	●			
660018717	3/16	-	-	4.763	0.18750			●			
8720480	-	-	-	4.800	0.18898		82	3/16		●	
8720490	-	-	-	4.900	0.19291			6		●	
8720500	-	-	-	5.000	0.19685				25	●	
8720510	-	-	-	5.100	0.20079	●					
660020317	13/64	-	-	5.159	0.20313	26			1/4	●	
8720520	-	-	-	5.200	0.20472				82	●	
8720530	-	-	-	5.300	0.20866	27				●	
8720540	-	-	-	5.400	0.21260					●	
660021317	-	3	-	5.410	0.21300	28				6	●
8720550	-	-	-	5.500	0.21654					●	
660021817	7/32	-	-	5.556	0.21875	82	1/4			●	
8720560	-	-	-	5.600	0.22047		6	●			
8720570	-	-	-	5.700	0.22441			29		●	
8720580	-	-	-	5.800	0.22835					●	
8720590	-	-	-	5.900	0.23228			30		●	
660023417	15/64	-	-	5.953	0.23438				●		
8720600	-	-	-	6.000	0.23622			88	1/4	●	
8720610	-	-	-	6.100	0.24016				31	6	●
8720620	-	-	-	6.200	0.24409					●	
8720630	-	-	-	6.300	0.24803				32	8	●
660025017	1/4	-	E	6.350	0.25000	●					
8720640	-	-	-	6.400	0.25197	33	1/4		●		
8720650	-	-	-	6.500	0.25591		●				
660025717	-	-	F	6.528	0.25700		●				

Packed: 1 pc. Available EgiAs Coating Only.

● Stocked ○ Available Upon Request ▲ Japan Stocked

Stock and availability vary - Please go to osgtool.com or contact customer service to confirm availability.

continued on next page

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											6061	Casting	Inconel	6Al4V (30 HRC)
	1010	1035	1065	4140	300	400	17-4 PH		7075								
6600	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	

○ good ○ best

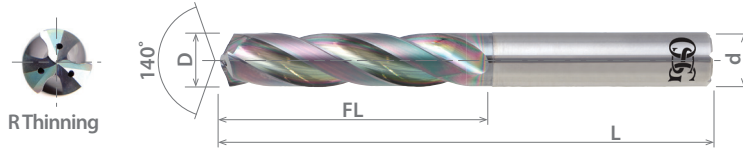


A Brand® ADO-TRS

Advanced Performance High Feed 3-Flute Carbide Drills

List 6600 (Continued)

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	Status
	Fractional Size	Wire Gage	Letter Size	mm	Inch				
8720660	-	-	-	6.600	0.25984	33	88	8	●
8720670	-	-	-	6.700	0.26378	34		5/16	●
660026517	17/64	-	-	6.747	0.26563		35	8	●
8720680	-	-	-	6.800	0.26772	36		5/16	●
8720690	-	-	-	6.900	0.27165		37		8
8720700	-	-	-	7.000	0.27559	38		5/16	
8720710	-	-	-	7.100	0.27953		39		8
660028117	9/32	-	-	7.144	0.28125	40		5/16	
8720720	-	-	-	7.200	0.28346		41		8
8720730	-	-	-	7.300	0.28740	42		5/16	
8720738	-	-	-	7.380	0.29055		43		8
8720740	-	-	-	7.400	0.29134	44		5/16	
8720750	-	-	-	7.500	0.29528		45		8
660029617	19/64	-	-	7.541	0.29688	46		5/16	
8720760	-	-	-	7.600	0.29921		47		8
8720770	-	-	-	7.700	0.30315	48		5/16	
8720780	-	-	-	7.800	0.30709		49		8
8720790	-	-	-	7.900	0.31102	50		5/16	
660031217	5/16	-	-	7.938	0.31250		51		8
8720800	-	-	-	8.000	0.31496	52		10	
8720810	-	-	-	8.100	0.31890		53		3/8
8720820	-	-	-	8.200	0.32283	54		10	
8720830	-	-	-	8.300	0.32677		55		3/8
660032817	21/64	-	-	8.334	0.32813	56		10	
8720840	-	-	-	8.400	0.33071		57		10
660033217	-	-	Q	8.433	0.33200	58		3/8	
8720850	-	-	-	8.500	0.33465		59		10
8720860	-	-	-	8.600	0.33858	60		3/8	
8720870	-	-	-	8.700	0.34252		61		10
660034317	11/32	-	-	8.731	0.34375	62		3/8	
8720880	-	-	-	8.800	0.34646		63		10
8720890	-	-	-	8.900	0.35039	64		3/8	
8720900	-	-	-	9.000	0.35433		65		10
8720910	-	-	-	9.100	0.35827	66		3/8	
660035917	23/64	-	-	9.128	0.35938		67		10
8720920	-	-	-	9.200	0.36220	68		3/8	
8720925	-	-	-	9.250	0.36417		69		10
8720930	-	-	-	9.300	0.36614	70		3/8	
8720938	-	-	-	9.380	0.36929		71		10
8720940	-	-	-	9.400	0.37008	72		3/8	
8720950	-	-	-	9.500	0.37402		73		10
660037517	3/8	-	-	9.525	0.37500	74		3/8	
8720960	-	-	-	9.600	0.37795		75		10
8720970	-	-	-	9.700	0.38189	76		3/8	
8720980	-	-	-	9.800	0.38583		77		10
8720990	-	-	-	9.900	0.38976	78		3/8	
660039017	25/64	-	-	9.922	0.39063		79		10
8721000	-	-	-	10.000	0.39370	80		3/8	
8721010	-	-	-	10.100	0.39764		81		10
8721020	-	-	-	10.200	0.40157	82		3/8	
8721030	-	-	-	10.300	0.40551		83		10
660040617	13/32	-	-	10.319	0.40625	84		3/8	
8721040	-	-	-	10.400	0.40945		85		10
8721050	-	-	-	10.500	0.41339	86		3/8	
8721060	-	-	-	10.600	0.41732		87		10
8721070	-	-	-	10.700	0.42126	88		3/8	
660042217	27/64	-	-	10.716	0.42188		89		10
8721080	-	-	-	10.800	0.42520	90		3/8	
8721090	-	-	-	10.900	0.42913		91		10
8721100	-	-	-	11.000	0.43307	92		3/8	
8721110	-	-	-	11.100	0.43701		96		120

Packed: 1 pc. Available EgiAs Coating Only.

● Stocked ○ Available Upon Request ▲ Japan Stocked

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List 6600 (Continued)

ADO-TRS-3D, 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	Status					
	Fractional Size	Wire Gage	Letter Size	mm	Inch									
660043717	7/16	-	-	11.113	0.43750	56	120	7/16	●					
8721120	-	-	-	11.200	0.44094	57		12	●					
8721125	-	-	-	11.250	0.44291				●					
8721130	-	-	-	11.300	0.44488	●								
8721138	-	-	-	11.380	0.44803	●								
8721140	-	-	-	11.400	0.44882	●								
8721150	-	-	-	11.500	0.45276	58			●					
660045317	29/64	-	-	11.509	0.45313				●					
8721160	-	-	-	11.600	0.45669	59			●					
8721170	-	-	-	11.700	0.46063				●					
8721180	-	-	-	11.800	0.46457	60			●					
8721190	-	-	-	11.900	0.46850				●					
660046817	15/32	-	-	11.906	0.46875	61	1/2		●					
8721200	-	-	-	12.000	0.47244		12	●						
8721210	-	-	-	12.100	0.47638	62	128	14	●					
8721220	-	-	-	12.200	0.48031			●						
8721230	-	-	-	12.300	0.48425	63		14	▲					
660048417	31/64	-	-	12.303	0.48438				1/2	●				
8721240	-	-	-	12.400	0.48819	64			▲					
8721250	-	-	-	12.500	0.49213				●					
8721260	-	-	-	12.600	0.49606	65			14	●				
8721270	-	-	-	12.700	0.50000				1/2	▲				
660050017	1/2	-	-	12.700	0.50000	66			134	14	●			
8721280	-	-	-	12.800	0.50394					●				
8721290	-	-	-	12.900	0.50787	67				16	▲			
8721300	-	-	-	13.000	0.51181						14	●		
8721310	-	-	-	13.100	0.51575	68	16				●			
8721320	-	-	-	13.200	0.51969						14	▲		
8721325	-	-	-	13.250	0.52165	69		16			●			
8721330	-	-	-	13.300	0.52362						14	●		
8721338	-	-	-	13.380	0.52677	70					5/8	●		
8721340	-	-	-	13.400	0.52756							14	▲	
660053117	17/32	-	-	13.494	0.53125	71						140	5/8	●
8721350	-	-	-	13.500	0.53150								16	●
8721360	-	-	-	13.600	0.53543	72			16				●	
8721370	-	-	-	13.700	0.53937								16	▲
8721380	-	-	-	13.800	0.54331	73				16			●	
8721390	-	-	-	13.900	0.54724								16	▲
8721400	-	-	-	14.000	0.55118	74	5/8						●	
8721410	-	-	-	14.100	0.55512								16	▲
8721420	-	-	-	14.200	0.55906	75		145					16	●
660056217	9/16	-	-	14.288	0.56250								16	●
8721430	-	-	-	14.300	0.56299	76					16		●	
8721440	-	-	-	14.400	0.56693								16	▲
8721450	-	-	-	14.500	0.57087	77						5/8	●	
8721460	-	-	-	14.600	0.57480								16	▲
8721470	-	-	-	14.700	0.57874	78			16				●	
8721480	-	-	-	14.800	0.58268								16	▲
8721490	-	-	-	14.900	0.58661	79				16			●	
8721500	-	-	-	15.000	0.59055								16	▲
660059317	19/32	-	-	15.081	0.59375	80	16						5/8	●
8721510	-	-	-	15.100	0.59449								16	●
8721520	-	-	-	15.200	0.59843	81		16					16	●
8721530	-	-	-	15.300	0.60236								16	▲
8721540	-	-	-	15.400	0.60630	82					16		16	●
8721550	-	-	-	15.500	0.61024								16	▲
8721560	-	-	-	15.600	0.61417	16						●		

Packed: 1 pc. Available EgiAs Coating Only.

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▶ continued on next page ▶

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
6600	○	○	○	○	○		○	○	○		○	○	○	○	○	○	○

○ good ○ best

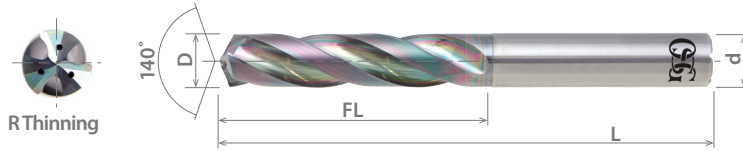


A Brand® ADO-TRS

Advanced Performance High Feed 3-Flute Carbide Drills

List 6600 (Continued)

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	Status
	Fractional Size	Wire Gage	Letter Size	mm	Inch				
8721570	-	-	-	15.700	0.61811	79	145	16	▲
8721580	-	-	-	15.800	0.62205			▲	
660062517	5/8	-	-	15.875	0.62500	80	145	5/8	●
8721590	-	-	-	15.900	0.62598			▲	
8721600	-	-	-	16.000	0.62992	81	150	16	▲
660063317	-	-	-	16.100	0.63386			▲	
8721650	-	-	-	16.500	0.64961	83	18	●	
660065617	21/32	-	-	16.669	0.65625	85	150	3/4	●
660066317	-	-	-	16.840	0.66299			●	
8721700	-	-	-	17.000	0.66929	87	155	18	●
8721725	-	-	-	17.250	0.67913			●	
660068717	11/16	-	-	17.463	0.68750	88	155	3/4	●
8721750	-	-	-	17.500	0.68898			●	
660070317	45/64	-	-	17.859	0.70313	90	160	3/4	●
8721800	-	-	-	18.000	0.70866			●	
660071817	23/32	-	-	18.256	0.71875	92	3/4	●	
8721850	-	-	-	18.500	0.72835	93	160	20	●
8721900	-	-	-	19.000	0.74803			●	
660075017	3/4	-	-	19.050	0.75000	95	3/4	●	
8721925	-	-	-	19.250	0.75787	97	165	●	
8721950	-	-	-	19.500	0.76772			●	
8722000	-	-	-	20.000	0.78740	100	20	●	

Packed: 1 pc. Available EgiAs Coating Only.

● Stocked ○ Available Upon Request ▲ Japan Stocked

Stock and availability vary - Please go to osgtool.com or contact customer service to confirm availability.



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)	~35 HRC	35-45 HRC
6600	○	○	○	○	○		○	○		○		○	○	○	○	○	○

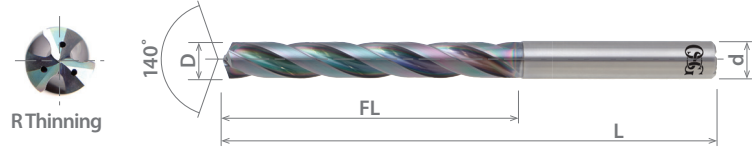
○ good ○ best



List 6610

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	Overall Length	Shank Diameter	Status
	Fractional Size	Wire Gage	Letter Size	mm	Inch				
8722300	-	-	-	3.000	0.11811	27	78	3	●
661012517	1/8	-	-	3.175	0.12500	29	86	1/8	●
8722330	-	-	-	3.300	0.12992	30		●	
8722350	-	-	-	3.500	0.13780	32		●	
8722366	-	-	-	3.660	0.14409	33		●	
661015617	5/32	-	-	3.969	0.15625	36		5/32	●
8722400	-	-	-	4.000	0.15748	-	4	●	
661016117	-	20	-	4.089	0.16100	-	95	6	●
8722410	-	-	-	4.100	0.16142	37			●
8722420	-	-	-	4.200	0.16535	38			●
8722430	-	-	-	4.300	0.16929	39			●
661017217	11/64	-	-	4.366	0.17188	-			3/16
8722440	-	-	-	4.400	0.17323	40	●		
8722450	-	-	-	4.500	0.17717	41	6	●	
8722460	-	-	-	4.600	0.18110	42		●	
8722470	-	-	-	4.700	0.18504	43		●	
661018717	3/16	-	-	4.763	0.18750	-		3/16	●
8722480	-	-	-	4.800	0.18898	44		●	
8722490	-	-	-	4.900	0.19291	45	6	●	
8722500	-	-	-	5.000	0.19685	-		●	
8722510	-	-	-	5.100	0.20079	41		●	
661020317	13/64	-	-	5.159	0.20313	-		1/4	●
8722520	-	-	-	5.200	0.20472	42		●	
8722530	-	-	-	5.300	0.20866	43	6	●	
8722540	-	-	-	5.400	0.21260	-		●	
661021317	-	3	-	5.410	0.21300	44		●	
8722550	-	-	-	5.500	0.21654	-		1/4	●
661021817	7/32	-	-	5.556	0.21875	-		6	●
8722560	-	-	-	5.600	0.22047	45	●		
8722570	-	-	-	5.700	0.22441	46	6	●	
8722580	-	-	-	5.800	0.22835	47		●	
8722590	-	-	-	5.900	0.23228	-		●	
661023417	15/64	-	-	5.953	0.23438	48		1/4	●
8722600	-	-	-	6.000	0.23622	-		6	●
8722610	-	-	-	6.100	0.24016	49	8	●	
8722620	-	-	-	6.200	0.24409	50		●	
8722630	-	-	-	6.300	0.24803	51		●	
661025017	1/4	-	E	6.350	0.25000	-		1/4	●
8722640	-	-	-	6.400	0.25197	52		●	
8722650	-	-	-	6.500	0.25591	-	8	●	
661025717	-	-	F	6.528	0.25700	-		●	
8722660	-	-	-	6.600	0.25984	53		●	
8722670	-	-	-	6.700	0.26378	54		●	
661026517	17/64	-	-	6.747	0.26563	-		5/16	●
8722680	-	-	-	6.800	0.26772	55	8	●	
8722690	-	-	-	6.900	0.27165	-		●	
8722700	-	-	-	7.000	0.27559	56		●	
8722710	-	-	-	7.100	0.27953	57		●	
661028117	9/32	-	-	7.144	0.28125	-		5/16	●
8722720	-	-	-	7.200	0.28346	58	8	●	
8722730	-	-	-	7.300	0.28740	59		●	

Packed: 1 pc. Available EgiAs Coating Only.
 ● Stocked ○ Available Upon Request ▲ Japan Stocked

Stock and availability vary - Please go to osgtool.com or contact customer service to confirm availability.



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		300	400	17-4 PH		6061	Casting	Inconel	6Al4V (30 HRC)	~35 HRC	35-45 HRC	45-50 HRC	50-70 HRC
6610	1010	1035	1065	4340						7075							

○ good ⊗ best

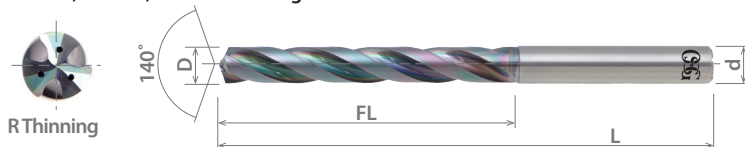


A Brand[®] ADO-TRS

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	Status
	Fractional Size	Wire Gage	Letter Size	mm	Inch				
8722738	-	-	-	7.380	0.29055	60	118	8	●
8722740	-	-	-	7.400	0.29134				
8722750	-	-	-	7.500	0.29528				
661029617	19/64	-	-	7.541	0.29688	61		5/16	●
8722760	-	-	-	7.600	0.29921				
8722770	-	-	-	7.700	0.30315	62		8	●
8722780	-	-	-	7.800	0.30709				
8722790	-	-	-	7.900	0.31102	63		5/16	●
661031217	5/16	-	-	7.938	0.31250				
8722800	-	-	-	8.000	0.31496	64		8	●
8722810	-	-	-	8.100	0.31890				
8722820	-	-	-	8.200	0.32283	65	10	●	
8722830	-	-	-	8.300	0.32677				
661032817	21/64	-	-	8.334	0.32813	66	3/8	●	
8722840	-	-	-	8.400	0.33071				
661033217	-	-	Q	8.433	0.33200	67	10	●	
8722850	-	-	-	8.500	0.33465				
8722860	-	-	-	8.600	0.33858	68	3/8	●	
8722870	-	-	-	8.700	0.34252				
661034317	11/32	-	-	8.731	0.34375	69	10	●	
8722880	-	-	-	8.800	0.34646				
8722890	-	-	-	8.900	0.35039	70	3/8	●	
8722900	-	-	-	9.000	0.35433				
8722910	-	-	-	9.100	0.35827	71	10	●	
661035917	23/64	-	-	9.128	0.35938				
8722920	-	-	-	9.200	0.36220	72	3/8	●	
8722925	-	-	-	9.250	0.36417				
8722930	-	-	-	9.300	0.36614	73	10	●	
8722938	-	-	-	9.380	0.36929				
8722940	-	-	-	9.400	0.37008	74	3/8	●	
8722950	-	-	-	9.500	0.37402				
661037517	3/8	-	-	9.525	0.37500	75	10	●	
8722960	-	-	-	9.600	0.37795				
8722970	-	-	-	9.700	0.38189	76	3/8	●	
8722980	-	-	-	9.800	0.38583				
8722990	-	-	-	9.900	0.38976	77	10	●	
661039017	25/64	-	-	9.922	0.39063				
8723000	-	-	-	10.000	0.39370	78	7/16	●	
8723010	-	-	-	10.100	0.39764				
8723020	-	-	-	10.200	0.40157	79	10	●	
8723030	-	-	-	10.300	0.40551				
661040617	13/32	-	-	10.319	0.40625	80	7/16	●	
8723040	-	-	-	10.400	0.40945				
8723050	-	-	-	10.500	0.41339	81	12	●	
8723060	-	-	-	10.600	0.41732				
8723070	-	-	-	10.700	0.42126	82	7/16	●	
661042217	27/64	-	-	10.716	0.42188				
8723080	-	-	-	10.800	0.42520	83	12	●	
8723090	-	-	-	10.900	0.42913				
8723100	-	-	-	11.000	0.43307	84	7/16	●	
8723110	-	-	-	11.100	0.43701				
661043717	7/16	-	-	11.113	0.43750	85	12	●	
8723120	-	-	-	11.200	0.44094				
8723125	-	-	-	11.250	0.44291	86	7/16	●	
8723130	-	-	-	11.300	0.44488				
8723138	-	-	-	11.380	0.44803	87	12	●	
8723140	-	-	-	11.400	0.44882				
8723150	-	-	-	11.500	0.45276	88	7/16	●	
661045317	29/64	-	-	11.509	0.45313				
8723160	-	-	-	11.600	0.45669	89	12	●	
8723170	-	-	-	11.700	0.46063				

Packed: 1 pc. Available EgiAs Coating Only.

● Stocked ○ Available Upon Request ▲ Japan Stocked

Stock and availability vary - Please go to osgtool.com or contact customer service to confirm availability.



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	Overall Length	Shank Diameter	Status
	Fractional Size	Wire Gage	Letter Size	mm	Inch				
8723180	-	-	-	11.800	0.46457	95	156	12	●
8723190	-	-	-	11.900	0.46850	96		1/2	●
661046817	15/32	-	-	11.906	0.46875			12	●
8723200	-	-	-	12.000	0.47244	97	167	14	▲
8723210	-	-	-	12.100	0.47638	98		14	●
8723220	-	-	-	12.200	0.48031	99		1/2	▲
8723230	-	-	-	12.300	0.48425	100	167	14	●
661048417	31/64	-	-	12.303	0.48438			101	14
8723240	-	-	-	12.400	0.48819	102		1/2	●
8723250	-	-	-	12.500	0.49213	103	176	14	●
8723260	-	-	-	12.600	0.49606			104	14
8723270	-	-	-	12.700	0.50000	105		1/2	●
661050017	1/2	-	-	12.700	0.50000	106	176	14	▲
8723280	-	-	-	12.800	0.50394	107		14	●
8723290	-	-	-	12.900	0.50787	108		5/8	▲
8723300	-	-	-	13.000	0.51181	109	185	16	●
8723310	-	-	-	13.100	0.51575			110	16
8723320	-	-	-	13.200	0.51969	111		5/8	●
8723325	-	-	-	13.250	0.52165	112	193	16	▲
8723330	-	-	-	13.300	0.52362			113	16
8723338	-	-	-	13.380	0.52677	114		5/8	▲
8723340	-	-	-	13.400	0.52756	115	201	18	●
661053117	17/32	-	-	13.494	0.53125			116	3/4
8723350	-	-	-	13.500	0.53150	117		18	●
8723360	-	-	-	13.600	0.53543	118	201	18	▲
8723370	-	-	-	13.700	0.53937	119		18	●
8723380	-	-	-	13.800	0.54331	120		18	▲
8723390	-	-	-	13.900	0.54724	121	193	16	●
8723400	-	-	-	14.000	0.55118			122	16
8723410	-	-	-	14.100	0.55512	123		5/8	●
8723420	-	-	-	14.200	0.55906	124	185	16	▲
661056217	9/16	-	-	14.288	0.56250	125		16	●
8723430	-	-	-	14.300	0.56299	126		5/8	▲
8723440	-	-	-	14.400	0.56693	127	201	18	●
8723450	-	-	-	14.500	0.57087			128	18
8723460	-	-	-	14.600	0.57480	129		193	16
8723470	-	-	-	14.700	0.57874		130		16
8723480	-	-	-	14.800	0.58268	131	5/8		●
8723490	-	-	-	14.900	0.58661	132	201	18	▲
8723500	-	-	-	15.000	0.59055			133	18
661059317	19/32	-	-	15.081	0.59375	134		5/8	▲
8723510	-	-	-	15.100	0.59449	135	193	16	●
8723520	-	-	-	15.200	0.59843			136	16
8723530	-	-	-	15.300	0.60236	137		201	18
8723540	-	-	-	15.400	0.60630		138		18
8723550	-	-	-	15.500	0.61024	139	193		16
8723560	-	-	-	15.600	0.61417			140	16
8723570	-	-	-	15.700	0.61811	141		201	18
8723580	-	-	-	15.800	0.62205		142		18
661062517	5/8	-	-	15.875	0.62500	143	5/8		●
8723590	-	-	-	15.900	0.62598	144	193	16	▲
8723600	-	-	-	16.000	0.62992			145	16
661063317	-	-	-	16.100	0.63386	146		5/8	▲
8723650	-	-	-	16.500	0.64961	147	201	18	●
661065617	21/32	-	-	16.669	0.65625			148	18
661066317	-	-	-	16.840	0.66299	149		3/4	●
8723700	-	-	-	17.000	0.66929	150	18	▲	

Packed: 1 pc. Available EgiAs Coating Only.

● Stocked ○ Available Upon Request ▲ Japan Stocked

Stock and availability vary - Please go to osgtool.com or contact customer service to confirm availability.



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)	~35 HRC	35-45 HRC	45-50 HRC	50-70 HRC		
6610	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

○ good ○ best

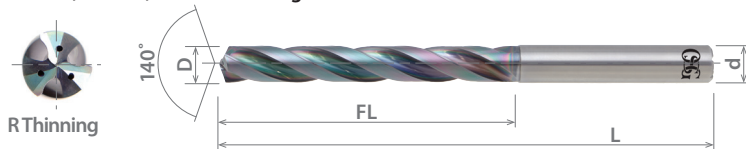


A Brand® ADO-TRS

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
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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	Status
	Fractional Size	Wire Gage	Letter Size	mm	Inch				
8723725	-	-	-	17.250	0.67913	138	209	18	●
661068717	11/16	-	-	17.463	0.68750	140		3/4	●
8723750	-	-	-	17.500	0.68898	143		18	●
661070317	45/64	-	-	17.859	0.70313	144	217	3/4	●
8723800	-	-	-	18.000	0.70866	147		18	●
661071817	23/32	-	-	18.256	0.71875	148		3/4	●
8723850	-	-	-	18.500	0.72835	152	225	20	●
8723900	-	-	-	19.000	0.74803	154		3/4	●
661075017	3/4	-	-	19.050	0.75000	156		20	●
8723925	-	-	-	19.250	0.75787	160		●	
8723950	-	-	-	19.500	0.76772			●	
8724000	-	-	-	20.000	0.78740			●	

Packed: 1 pc. Available EgiAs Coating Only.

● Stocked ○ Available Upon Request ▲ Japan Stocked

Stock and availability vary - Please go to osgtool.com or contact customer service to confirm availability.



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
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										
3	-	10,700	0.004 - 0.006	10,700	0.004 - 0.006	5,200	0.004 - 0.006	10,700	0.004 - 0.007	8,400	0.004 - 0.006
-	1/8	10,100	0.004 - 0.006	10,100	0.004 - 0.006	4,900	0.004 - 0.006	10,100	0.004 - 0.007	7,900	0.004 - 0.006
4	-	7,900	0.005 - 0.009	7,900	0.005 - 0.009	4,000	0.005 - 0.007	7,900	0.005 - 0.009	6,350	0.005 - 0.009
-	3/16	6,700	0.007 - 0.010	6,700	0.007 - 0.010	3,300	0.007 - 0.009	6,700	0.007 - 0.011	5,300	0.007 - 0.010
6	-	5,300	0.007 - 0.013	5,300	0.007 - 0.013	2,650	0.007 - 0.009	5,300	0.008 - 0.014	4,250	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	-	3,950	0.009 - 0.017	3,950	0.009 - 0.017	2,000	0.009 - 0.013	3,950	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	2,650	0.012 - 0.021
10	-	3,150	0.012 - 0.022	3,150	0.012 - 0.022	1,600	0.012 - 0.016	3,150	0.014 - 0.024	2,550	0.012 - 0.022
-	7/16	2,850	0.013 - 0.023	2,850	0.013 - 0.023	1,450	0.013 - 0.017	2,850	0.015 - 0.026	2,300	0.013 - 0.023
12	-	2,650	0.014 - 0.024	2,650	0.014 - 0.024	1,350	0.014 - 0.019	2,650	0.017 - 0.028	2,100	0.014 - 0.024
-	1/2	2,500	0.015 - 0.025	2,500	0.015 - 0.025	1,250	0.015 - 0.020	2,500	0.018 - 0.028	2,000	0.015 - 0.025
14	-	2,250	0.017 - 0.028	2,250	0.017 - 0.028	1,150	0.017 - 0.022	2,250	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
16	-	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	-	1,750	0.021 - 0.032	1,750	0.021 - 0.032	900	0.021 - 0.028	1,750	0.025 - 0.035	1,400	0.021 - 0.032
-	3/4	1,650	0.023 - 0.034	1,650	0.023 - 0.034	850	0.023 - 0.030	1,650	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	1,250	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								
3	-	14,900	0.004 - 0.009	7,900	0.004 - 0.006	6,500	0.004 - 0.006	4,700	0.004 - 0.005
-	1/8	14,100	0.005 - 0.009	7,500	0.004 - 0.006	6,100	0.004 - 0.006	4,400	0.004 - 0.005
4	-	11,150	0.006 - 0.012	5,590	0.005 - 0.008	4,750	0.005 - 0.008	3,500	0.005 - 0.007
-	3/16	9,400	0.007 - 0.014	5,000	0.006 - 0.009	4,100	0.006 - 0.009	3,000	0.006 - 0.008
6	-	7,450	0.009 - 0.019	3,950	0.007 - 0.012	3,150	0.007 - 0.012	2,350	0.007 - 0.009
-	1/4	7,000	0.010 - 0.020	3,750	0.007 - 0.012	3,000	0.007 - 0.012	2,200	0.007 - 0.010
8	-	5,600	0.013 - 0.025	2,950	0.009 - 0.016	2,350	0.009 - 0.016	1,750	0.009 - 0.013
-	3/8	4,700	0.015 - 0.030	2,500	0.011 - 0.019	2,000	0.011 - 0.019	1,450	0.011 - 0.015
10	-	4,450	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	2,150	0.013 - 0.022	1,700	0.013 - 0.022	1,250	0.013 - 0.017
12	-	3,700	0.019 - 0.038	2,000	0.014 - 0.024	1,550	0.014 - 0.024	1,150	0.014 - 0.019
-	1/2	3,500	0.020 - 0.040	1,850	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	1,350	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
16	-	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	1,050	0.021 - 0.028	800	0.021 - 0.028
-	3/4	2,350	0.030 - 0.060	1,250	0.023 - 0.030	1,000	0.023 - 0.030	750	0.023 - 0.030
20	-	2,250	0.031 - 0.063	1,200	0.024 - 0.031	950	0.024 - 0.031	700	0.024 - 0.031





shaping your dreams

 **Safe use of cutting tools**

- Use safety cover, safety glasses and safety shoes during operation.
- Do not touch cutting edges with bare hands.
- Do not touch cutting chips with bare hands. Chips will be hot after cutting.
- Stop cutting when the tool becomes dull.
- Stop cutting operation immediately if you hear any abnormal cutting sounds.
- Do not modify tools.
- Please use appropriate tools for the operation. Check dimensions to ensure proper selection.

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