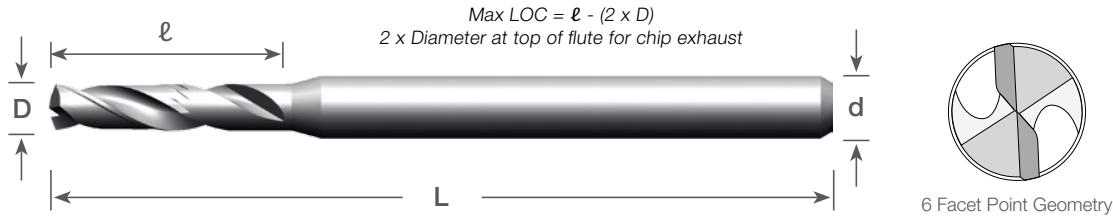


**0.1250" - 0.5000" DIAMETER**

Match with HYDROS Coolant Fed Deep Drills Product Line  
 Increased Positional Accuracy  
 Less Heat Build Up  
 Excellent Pilot Hole Drill  
 External Coolant

# ORION INCH SHANK

HIGH PERFORMANCE DRILLS



## STANDARD Flute Length



Symbol Descriptions [Page 7](#)

Dimensions (in)				Point Angle	AITiN Nano	
D	d	ℓ	L		Part Number	Stock
0.1250 (1/8)	0.1875	0.625	2.5	142°	160-1250AG625	●
0.1406 (9/64)	0.1875	0.703	2.5	142°	160-1406AG703	●
0.1563 (5/32)	0.1875	0.781	2.5	142°	160-1563AG781	●
0.1719 (11/64)	0.1875	0.859	2.5	142°	160-1719AG859	●
0.1875 (3/16)	0.2500	0.938	2.5	142°	160-1875AG938	●
0.2031 (13/64)	0.2500	1.016	2.5	142°	160-2031AG1016	●
0.2188 (7/32)	0.2500	1.094	2.5	142°	160-2188AG1094	●
0.2344 (15/64)	0.2500	1.172	2.5	142°	160-2344AG1172	●
0.2500 (1/4)	0.3125	1.250	3.0	142°	160-2500AG1250	●
0.2570 (F)	0.3125	1.285	3.0	142°	160-2570AG1285	●
0.2656 (17/64)	0.3125	1.328	3.0	142°	160-2656AG1328	●
0.2813 (9/32)	0.3125	1.406	3.0	142°	160-2813AG1406	●
0.3125 (5/16)	0.3750	1.563	4.0	142°	160-3125AG1563	●
0.3320 (Q)	0.3750	1.660	4.0	142°	160-3320AG1660	●
0.3438 (11/32)	0.3750	1.719	4.0	142°	160-3438AG1719	●
0.3750 (3/8)	0.4375	1.875	4.5	142°	160-3750AG1875	●
0.4219 (27/64)	0.4375	2.109	4.5	142°	160-4219AG2109	●
0.4375 (7/16)	0.5000	2.188	5.0	142°	160-4375AG2188	●
0.4531 (29/64)	0.5000	2.266	5.0	142°	160-4531AG2266	●
0.5000 (1/2)	0.6250	2.50	5.0	142°	160-5000AG2500	●

Match with HYDROS Deep Hole Coolant Drills Series 860 [Page 61](#)

**Diameter Tolerance**

Diameter (D)	0.1250" - 0.2344"	0.2500" - 0.3750"	0.4219" - 0.5000"
Tolerance + / +	+0.00016"/+0.00063"	+0.00024"/+0.00083"	+0.00028"/+0.00098"

**Shank Tolerance**

Shank Dia. (d)	0.1250" - 0.2344"	0.2500" - 0.3750"	0.4219" - 0.5000"
Tolerance + / -	+0.00000"/-0.00032"	+0.00000"/-0.00035"	+0.00000"/-0.00043"

SERIES 160 WORKPIECE MATERIAL

Coating	P	P	H	H	M	K	N	N	N	N	N	N	S	S	
	Steel -30HRC	Steel 30-40HRC	Hardened Steel -55HRC	Hardened Steel -68HRC	Stainless Steel	Cast Iron	Aluminum	Graphite	Copper Alloy	CFRP	Plastic	Thermoset Plastic	High Density Plastic	Nickel / Cobalt	Titanium Alloy
AITiN Nano	★	★	★	★	★	☆	☆	☆	☆	☆	☆	☆	☆	★	★

★ : Priority ☆ : Applicable Materials

Symbol Descriptions [Page 7](#)