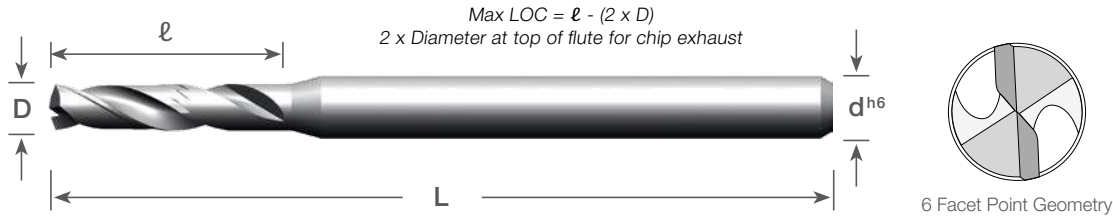


4.20mm - 6.80mm DIAMETER

ORION METRIC SHANK

HIGH PERFORMANCE DRILLS

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



STANDARD Flute Length



Symbol Descriptions [Page 7](#)

Dimensions (mm)				Point Angle	AITiN Nano	
D ^{m7}	d ^{h6}	ℓ	L		Part Number	Stock
4.20	6	21.0	70	142°	165-1654AG827	●
4.30	6	21.5	70	142°	165-1693AG846	●
4.40	6	22.0	70	142°	165-1732AG866	●
4.50	6	22.5	70	142°	165-1772AG886	●
4.60	6	23.0	70	142°	165-1811AG906	●
4.70	6	23.5	70	142°	165-1850AG925	●
4.80	6	24.0	70	142°	165-1890AG945	●
4.90	6	24.5	70	142°	165-1929AG965	●
5.00	6	25.0	70	142°	165-1969AG984	●
5.10	6	25.5	70	142°	165-2008AG1004	●
5.20	6	26.0	70	142°	165-2047AG1024	●
5.30	6	26.5	70	142°	165-2087AG1043	●
5.40	6	27.0	70	142°	165-2126AG1063	●
5.50	6	27.5	70	142°	165-2165AG1083	●
5.60	6	28.0	70	142°	165-2205AG1102	●
5.70	6	28.5	70	142°	165-2244AG1122	●
5.80	6	29.0	70	142°	165-2283AG1142	●
5.90	6	29.5	70	142°	165-2323AG1161	●
6.00	8	30.0	80	142°	165-2362AG1181	●
6.10	8	30.5	80	142°	165-2402AG1201	●
6.20	8	31.0	80	142°	165-2441AG1220	●
6.30	8	31.5	80	142°	165-2480AG1240	●
6.40	8	32.0	80	142°	165-2520AG1260	●
6.50	8	32.5	80	142°	165-2559AG1280	●
6.60	8	33.0	80	142°	165-2598AG1299	●
6.70	8	33.5	80	142°	165-2638AG1319	●
6.80	8	34.0	80	142°	165-2677AG1339	●

Match with HYDROS Deep Hole Coolant Drills [Series 865](#) [Page 63](#)

SERIES 165 WORKPIECE MATERIAL

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

★ : Priority ☆ : Applicable Materials

Symbol Descriptions [Page 7](#)

- DRILLS
- END MILLS
- ROUTERS
- THREAD MILLS & TAPS
- ENGRAVERS
- BORING BARS
- REAMERS
- SAWS
- TECHNICAL
- INDEX