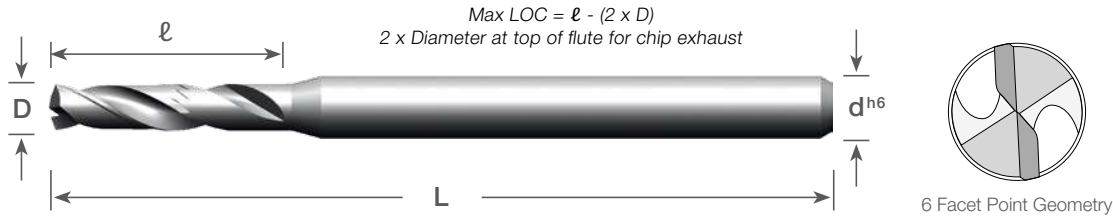


9.60mm - 12.00mm DIAMETER

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

ORION METRIC SHANK

HIGH PERFORMANCE DRILLS



STANDARD Flute Length



Symbol Descriptions [Page 7](#)

Dimensions (mm)				Point Angle	AITIN Nano	
D^{m7}	d^{h6}	l	L		Part Number	Stock
9.60	10	48.0	100	142°	165-3780AG1890	●
9.70	10	48.5	100	142°	165-3819AG1909	●
9.80	10	49.0	100	142°	165-3858AG1929	●
9.90	10	49.5	100	142°	165-3898AG1949	●
10.00	12	50.0	110	142°	165-3937AG1969	●
10.10	12	50.5	110	142°	165-3976AG1988	●
10.20	12	51.0	110	142°	165-4016AG2008	●
10.30	12	51.5	110	142°	165-4055AG2028	●
10.40	12	52.0	110	142°	165-4094AG2047	●
10.50	12	52.5	110	142°	165-4134AG2067	●
10.60	12	53.0	110	142°	165-4173AG2087	●
10.70	12	53.5	110	142°	165-4213AG2106	●
10.80	12	54.0	110	142°	165-4252AG2126	●
10.90	12	54.5	110	142°	165-4291AG2146	●
11.00	12	55.0	110	142°	165-4331AG2165	●
11.10	12	55.5	110	142°	165-4370AG2185	●
11.20	12	56.0	110	142°	165-4409AG2205	●
11.30	12	56.5	110	142°	165-4449AG2224	●
11.40	12	57.0	110	142°	165-4488AG2244	●
11.50	12	57.5	110	142°	165-4528AG2264	●
11.60	12	58.0	110	142°	165-4567AG2283	●
11.70	12	58.5	110	142°	165-4606AG2303	●
11.80	12	59.0	110	142°	165-4646AG2323	●
11.90	12	59.5	110	142°	165-4685AG2343	●
12.00	14	60.0	110	142°	165-4724AG2362	●

Match with HYDROS Deep Hole Coolant Drills **Series 865** [Page 65](#)

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](#)