

ORION METRIC SHANK

HIGH PERFORMANCE DRILLS

6.90mm - 9.50mm DIAMETER

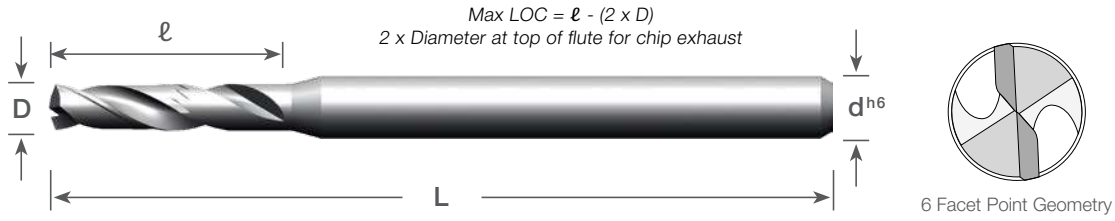
Match with *HYDROS Coolant Fed Deep Drills Product Line*

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 |
| 6.90 | 8 | 34.5 | 80 | 142° | 165-2717AG1358 | ● |
| 7.00 | 8 | 35.0 | 80 | 142° | 165-2756AG1378 | ● |
| 7.10 | 8 | 35.5 | 80 | 142° | 165-2795AG1398 | ● |
| 7.20 | 8 | 36.0 | 80 | 142° | 165-2835AG1417 | ● |
| 7.30 | 8 | 36.5 | 80 | 142° | 165-2874AG1437 | ● |
| 7.40 | 8 | 37.0 | 80 | 142° | 165-2913AG1457 | ● |
| 7.50 | 8 | 37.5 | 80 | 142° | 165-2953AG1476 | ● |
| 7.60 | 8 | 38.0 | 80 | 142° | 165-2992AG1496 | ● |
| 7.70 | 8 | 38.5 | 80 | 142° | 165-3031AG1516 | ● |
| 7.80 | 8 | 39.0 | 80 | 142° | 165-3071AG1535 | ● |
| 7.90 | 8 | 39.5 | 80 | 142° | 165-3110AG1555 | ● |
| 8.00 | 10 | 40.0 | 100 | 142° | 165-3150AG1575 | ● |
| 8.10 | 10 | 40.5 | 100 | 142° | 165-3189AG1594 | ● |
| 8.20 | 10 | 41.0 | 100 | 142° | 165-3228AG1614 | ● |
| 8.30 | 10 | 41.5 | 100 | 142° | 165-3268AG1634 | ● |
| 8.40 | 10 | 42.0 | 100 | 142° | 165-3307AG1654 | ● |
| 8.50 | 10 | 42.5 | 100 | 142° | 165-3346AG1673 | ● |
| 8.60 | 10 | 43.0 | 100 | 142° | 165-3386AG1693 | ● |
| 8.70 | 10 | 43.5 | 100 | 142° | 165-3425AG1713 | ● |
| 8.80 | 10 | 44.0 | 100 | 142° | 165-3465AG1732 | ● |
| 8.90 | 10 | 44.5 | 100 | 142° | 165-3504AG1752 | ● |
| 9.00 | 10 | 45.0 | 100 | 142° | 165-3543AG1772 | ● |
| 9.10 | 10 | 45.5 | 100 | 142° | 165-3583AG1791 | ● |
| 9.20 | 10 | 46.0 | 100 | 142° | 165-3622AG1811 | ● |
| 9.30 | 10 | 46.5 | 100 | 142° | 165-3661AG1831 | ● |
| 9.40 | 10 | 47.0 | 100 | 142° | 165-3701AG1850 | ● |
| 9.50 | 10 | 47.5 | 100 | 142° | 165-3740AG1870 | ● |

Match with *HYDROS Deep Hole Coolant Drills Series 865* [Page 64](#)

| SERIES 165 WORKPIECE MATERIAL | | | | | | | | | | | | | | | |
|-------------------------------|--------------|----------------|-----------------------|-----------------------|-----------------|-----------|----------|----------|--------------|------|---------|-------------------|----------------------|-----------------|----------------|
| Coating | P | P | H | H | M | K | 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](#)

● : U.S. Stock Standard
■ : NOT STOCKED - Call for Delivery