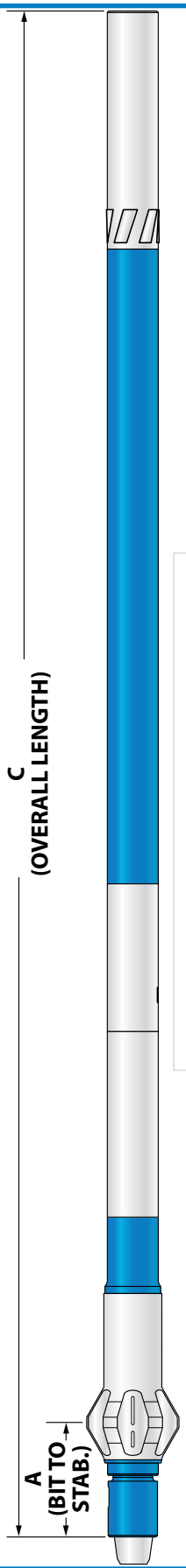
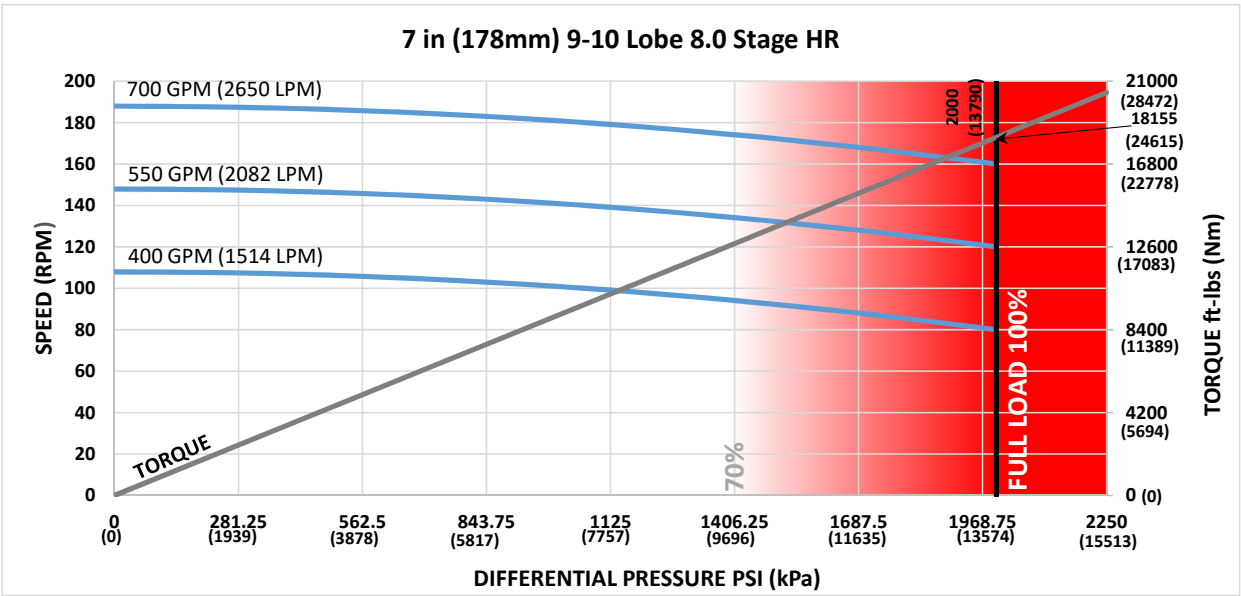
DYNOMAX DRILLING TOOLS INC

# 7 in (178mm) 9-10 Lobe 8.0 Stage HR
## RS FLEXSHAFT - MUD LUBE




| | | |
|---|---|---|
| **Bit Size Range** | 8-1/2 - 9-7/8 in | 216 - 251 mm |
| **Downhole Connection** | 4-1/2 REGULAR | |
| **Dynamic Bearing Load On/Off Bottom** | 100357 lbf | 44600 daN |
| **Static Bearing Load On/Off Bottom** | 355612 lbf | 158200 daN |
| **Max. Overpull (For Re-run)** | 432800 lbf | 192500 daN |
| **Absolute Overpull** | 721400 lbf | 320900 daN |
| **Stab/Thread Protector Makeup Torque** | 12000 ft-lbs | 16300 Nm |
| **A = Bit to Stabilizer (Centre)** | 20.4 in | 0.52 m |
| **C = Overall (With Rotor Catch Float Sub)** | 425.7 in | 10.81 m |
| **Weight** | 3268 lb | 1482 kg |




**Possible damage may occur when motor is run higher than 70% of Maximum Differential Pressure.**

| | | |
|---|---|---|
| **Lobe Configuration** | 9-10 Lobe 8.0 Stage HR | |
| **Displacement (No Load)** | 0.27 rev/gal | 0.07 rev/l |
| **Max. Differential (Full Load)** | 2000 psi | 13790 kPa |
| **Max. Torque** | 18155 ft-lbs | 24615 Nm |
| **Max. Power** | 553 HP | 412 kW |

| **Flow Rate** | | **Speed** |
|---|---|---|
| **GPM** | **LPM** | **RPM** |
| 400 | 1514 | 80 - 108 |
| 550 | 2082 | 120 - 148 |
| 700 | 2650 | 160 - 188 |

This information is for reference only.

RS FLEXSHAFT Motors are available with Integral Blade Bearing Housings or Screw-On Style Stabilizers.

Contact your local DYNOMAX office for Stabilizer Sizes and Availability.

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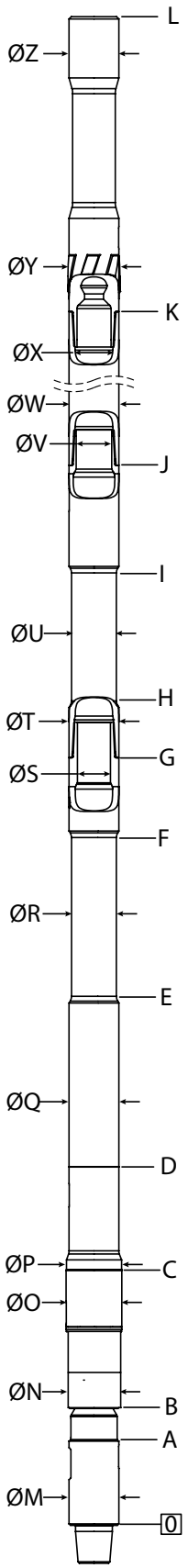
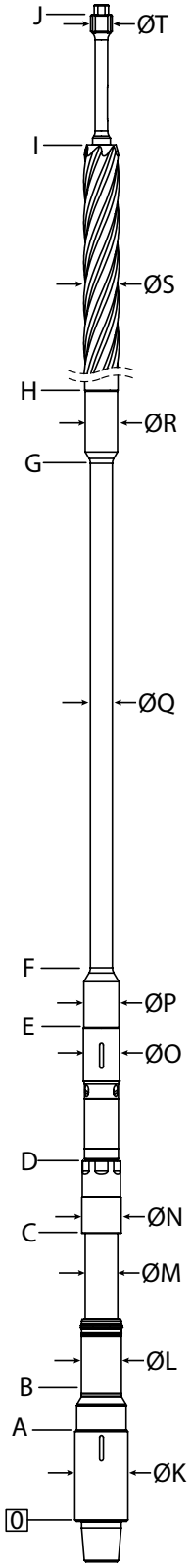
## FISHING DIMENSIONS

**USC - IMPERIAL (Lengths, Diameters = in)**
**SI - METRIC (Lengths = m, Diameters = mm)**




| EXTERNALS | | USC | SI |
|---|---|---|---|
| LOWER HSG. FLOW REST. | A | 14.2 | 0.36 |
| BEARING HSG. START | B | 19.0 | 0.48 |
| STABILIZER SHOULDER | C | 35.9 | 0.91 |
| STRAIGHT HOUSING | D | 43.2 | 1.10 |
| STRAIGHT HOUSING FLEX START | E | 66.3 | 1.68 |
| STRAIGHT HOUSING FLEX END | F | 89.0 | 2.26 |
| ADAPTOR HOUSING | G | 100.7 | 2.56 |
| ADAPTOR HOUSING FLEX START | H | 108.6 | 2.76 |
| ADAPTOR HOUSING FLEX END | I | 121.8 | 3.09 |
| STATOR START | J | 132.7 | 3.37 |
| STATOR END | K | 392.7 | 9.97 |
| OVERALL LENGTH | L | 425.7 | 10.81 |
| BIT BOX Ø | M | 7.00 | 177.8 |
| LOWER HSG. FLOW REST. Ø | N | 7.15 | 181.6 |
| THREAD PROTECTOR Ø | O | 7.85 | 199.4 |
| BEARING HOUSING SHOULDER Ø | P | 7.15 | 181.6 |
| STRAIGHT HOUSING Ø | Q | 7.15 | 181.6 |
| STRAIGHT HOUSING FLEX Ø | R | 6.45 | 163.8 |
| STRAIGHT HOUSING PIN Ø | S | 5.04 | 128.0 |
| ADAPTOR HOUSING Ø | T | 7.15 | 181.6 |
| ADAPTOR HOUSING FLEX Ø | U | 6.45 | 163.8 |
| ADAPTOR HOUSING PIN Ø | V | 5.04 | 127.9 |
| STATOR Ø | W | 7.00 | 177.8 |
| STATOR ID Ø | X | 5.75 | 146.1 |
| HARDFACING Ø | Y | 7.25 | 184.2 |
| ROTOR CATCH FLOAT SUB Ø | Z | 7.00 | 177.8 |




| INTERNALS | | USC | SI |
|---|---|---|---|
| BIT BOX | A | 9.0 | 0.23 |
| LOWER SHAFT FLOW REST. | B | 23.9 | 0.61 |
| COMPRESSION NUT. | C | 33.9 | 0.86 |
| BEARING ASSEMBLY ADAPTOR | D | 41.1 | 1.04 |
| DRIVESHAFT START | E | 56.1 | 1.42 |
| DRIVESHAFT FLEX START | F | 64.2 | 1.63 |
| DRIVESHAFT FLEX END | G | 122.0 | 3.10 |
| ROTOR START | H | 132.5 | 3.37 |
| ROTOR END | I | 384.5 | 9.77 |
| ROTOR CATCH END | J | 402.0 | 10.21 |
| BIT BOX Ø | K | 7.00 | 177.8 |
| FLOW RESTRICTOR Ø | L | 5.50 | 139.7 |
| MANDREL Ø | M | 4.36 | 110.7 |
| COMPRESSION NUT Ø | N | 5.30 | 134.6 |
| BEARING ASSEMBLY ADAPTOR Ø | O | 5.15 | 130.8 |
| DRIVESHAFT LOWER HEAD Ø | P | 4.65 | 118.1 |
| DRIVESHAFT FLEX Ø | Q | 3.13 | 79.5 |
| DRIVESHAFT UPPER HEAD Ø | R | 4.22 | 107.2 |
| ROTOR Ø | S | 4.83 | 122.7 |
| ROTOR CATCH STEM Ø | T | 3.19 | 81.0 |

This information is for reference only.

Rotor Catch and Rotor Catch Float Sub Lengths may vary based on configuration, and use of Dump Subs or combination Rotor Catch and Float Housings.

If any additional information is required, please contact your local DYNOMAX office.


7501 42 Street, Leduc, AB T9E 0R8 || Tel: 780.986.3070 || Fax: 780.986.3536

**www.DYNOMAXDrillingTools.com** **sales@DYNOMAXDrillingTools.com**