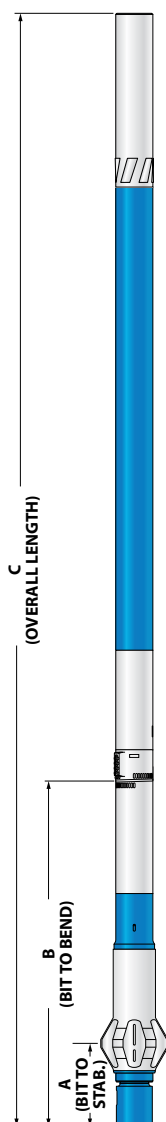


# 2.125 in (54mm) 5-6 Lobe 6.0 Stage HR THRU TUBING MUD LUBE

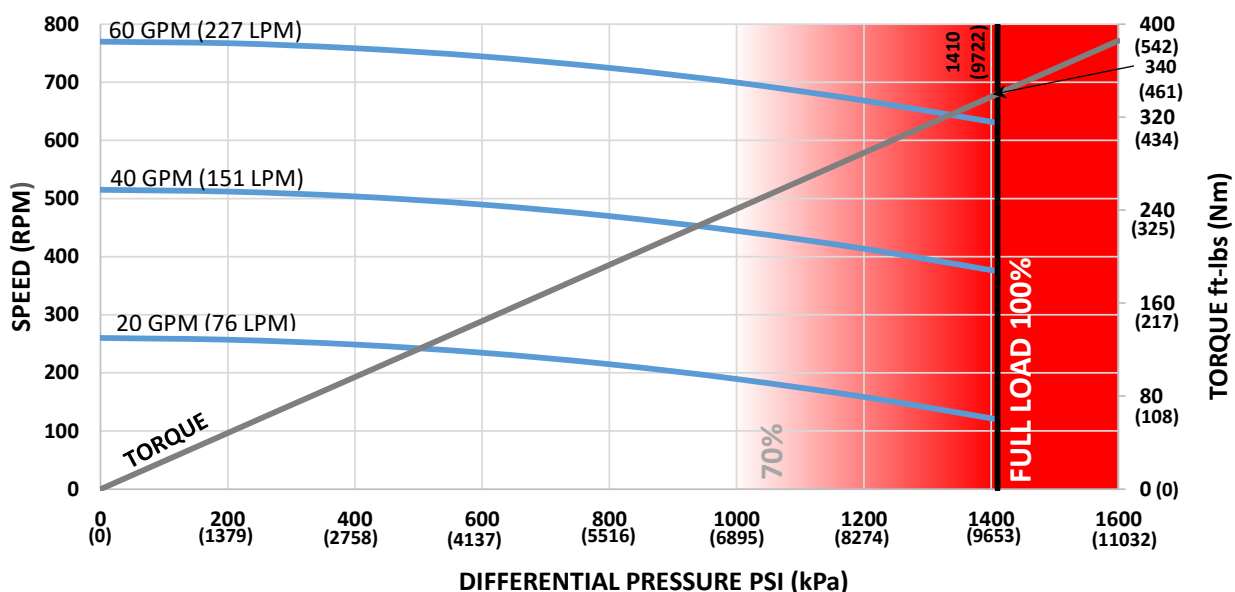


|                                            |                       |            |
|--------------------------------------------|-----------------------|------------|
| <b>Bit Size Range</b>                      | 2-3/4 - 3-1/2 in      | 70 - 89 mm |
| <b>Bit Box Connection</b>                  | 1-1/2 REGULAR         |            |
| <b>Dynamic Bearing Load On/Off Bottom</b>  | 4900 lbf              | 2200 daN   |
| <b>Static Bearing Load On/Off Bottom</b>   | 10700 lbf             | 4800 daN   |
| <b>Max. Overpull (For Re-run)</b>          | 38800 lbf             | 17300 daN  |
| <b>Absolute Overpull</b>                   | 77600 lbf             | 34500 daN  |
| <b>Adjustable Makeup Torque</b>            | 800 ft-lbs            | 1100 Nm    |
| <b>Stab/Thread Protector Makeup Torque</b> | --                    | --         |
| <b>A = Bit to Stabilizer (Centre)</b>      | --                    | --         |
| <b>B = Bit to Bend</b>                     | Adjustable<br>27.4 in | 0.7 m      |
|                                            | Fixed<br>--           | --         |
| <b>C = Overall (With Dump Sub)</b>         | 148.5 in              | 3.77 m     |
| <b>Weight</b>                              | 91 lb                 | 41 kg      |

|                                      |                       |            |
|--------------------------------------|-----------------------|------------|
| <b>Lobe Configuration</b>            | 5-6 Lobe 6.0 Stage HR |            |
| <b>Displacement (No Load)</b>        | 12.78 rev/gal         | 3.38 rev/l |
| <b>Max. Differential (Full Load)</b> | 1410 psi              | 9722 kPa   |
| <b>Max. Torque</b>                   | 340 ft-lbs            | 461 Nm     |
| <b>Max. Power</b>                    | 41 HP                 | 30 kW      |

| Flow Rate |     | Speed     |
|-----------|-----|-----------|
| GPM       | LPM | RPM       |
| 20        | 76  | 120 - 260 |
| 40        | 151 | 375 - 515 |
| 60        | 227 | 630 - 770 |

## 2.125 in (54mm) 5-6 Lobe 6.0 Stage HR



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

### ADJUSTABLE BUILD RATE

| Hole Size         | SLICK                      |               |               |               | STABILIZED                 |               |               |               |
|-------------------|----------------------------|---------------|---------------|---------------|----------------------------|---------------|---------------|---------------|
|                   | 6-1/4 (159mm)              | 6-3/4 (171mm) | 7-1/4 (184mm) | 7-7/8 (200mm) | 6-1/4 (159mm)              | 6-3/4 (171mm) | 7-1/4 (184mm) | 7-7/8 (200mm) |
| <b>BEND ANGLE</b> | Degrees per 100 Feet (30m) |               |               |               | Degrees per 100 Feet (30m) |               |               |               |
| 0.39              | -                          | -             | -             | -             | -                          | -             | -             | -             |
| 0.78              | 5.9                        | 2.3           | -             | -             | -                          | -             | -             | -             |
| 1.15              | 11.9                       | 8.2           | 4.6           | 0.9           | -                          | -             | -             | -             |
| 1.50              | 17.6                       | 13.9          | 10.2          | 6.5           | -                          | -             | -             | -             |
| 1.83              | 22.9                       | 19.2          | 15.6          | 11.9          | -                          | -             | -             | -             |
| 2.12              | 27.6                       | 23.9          | 20.3          | 16.6          | -                          | -             | -             | -             |
| 2.38              | 31.8                       | 28.1          | 24.5          | 20.8          | -                          | -             | -             | -             |
| 2.60              | 35.4                       | 31.7          | 28.0          | 24.3          | -                          | -             | -             | -             |
| 2.77              | 38.1                       | 34.5          | 30.8          | 27.1          | -                          | -             | -             | -             |
| 2.90              | 40.3                       | 36.6          | 32.9          | 29.2          | -                          | -             | -             | -             |
| 2.97              | 41.4                       | 37.7          | 34.0          | 30.3          | -                          | -             | -             | -             |
| 3.00              | 41.9                       | 38.2          | 34.5          | 30.8          | -                          | -             | -             | -             |

Note: Stabilizers are 1/8" undergauge

### FBH BUILD RATE

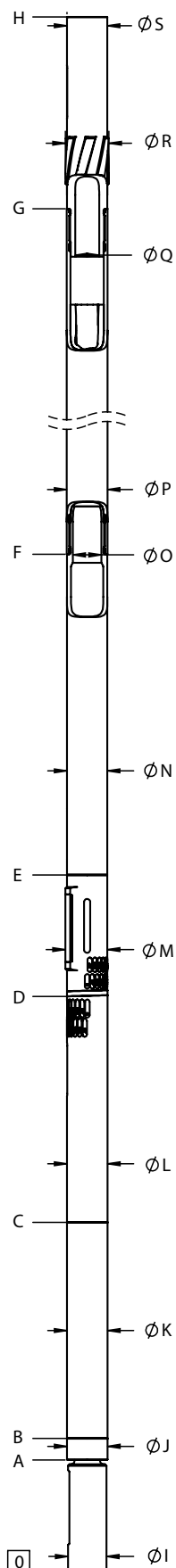
| Hole Size         | SLICK                      |               |               |               | STABILIZED                 |               |               |               |
|-------------------|----------------------------|---------------|---------------|---------------|----------------------------|---------------|---------------|---------------|
|                   | 6-1/4 (159mm)              | 6-3/4 (171mm) | 7-1/4 (184mm) | 7-7/8 (200mm) | 6-1/4 (159mm)              | 6-3/4 (171mm) | 7-1/4 (184mm) | 7-7/8 (200mm) |
| <b>BEND ANGLE</b> | Degrees per 100 Feet (30m) |               |               |               | Degrees per 100 Feet (30m) |               |               |               |
| 1.25              | -                          | -             | -             | -             | -                          | -             | -             | -             |
| 1.50              | -                          | -             | -             | -             | -                          | -             | -             | -             |
| 1.75              | -                          | -             | -             | -             | -                          | -             | -             | -             |
| 2.00              | -                          | -             | -             | -             | -                          | -             | -             | -             |
| 2.25              | -                          | -             | -             | -             | -                          | -             | -             | -             |
| 2.50              | -                          | -             | -             | -             | -                          | -             | -             | -             |

This information is for reference only. Build rates are theoretical calculations using three-point geometry and new motor builds. Actual rate predictions will depend on formation characteristics, bit profiles, and WOB.

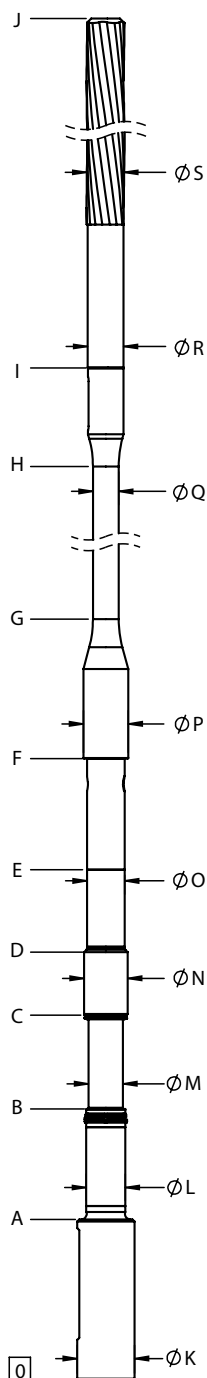
For custom motor configurations and build rates, please contact your DYNOMAX office.

## FISHING DIMENSIONS

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



| EXTERNALS                                |   | USC   | SI   |
|------------------------------------------|---|-------|------|
| LOWER HSG. FLOW REST.                    | A | 5.9   | 0.15 |
| BEARING HSG. START                       | B | 7.7   | 0.20 |
| KICK / FIXED HOUSING START               | C | 15.6  | 0.40 |
| ADJUSTING RING START (BIT TO BEND)       | D | 27.4  | 0.70 |
| ADAPTOR HOUSING START                    | E | 32.3  | 0.82 |
| STATOR START                             | F | 52.3  | 1.33 |
| STATOR END                               | G | 140.3 | 3.56 |
| OVERALL LENGTH                           | H | 148.5 | 3.77 |
| BIT BOX Ø                                | I | 2.10  | 53.3 |
| LOWER HSG. FLOW REST. Ø                  | J | 2.13  | 54.1 |
| BEARING HOUSING Ø                        | K | 2.13  | 54.1 |
| KICK/FIXED HOUSING Ø                     | L | 2.12  | 53.8 |
| ADJUSTING RING PAD / FIXED HOUSING PAD Ø | M | 2.26  | 57.4 |
| ADAPTOR HOUSING Ø                        | N | 2.12  | 53.8 |
| ADAPTOR HOUSING PIN Ø                    | O | 1.57  | 39.9 |
| STATOR Ø                                 | P | 1.75  | 44.5 |
| BLANK SUB PIN Ø                          | Q | 2.13  | 54.1 |
| HARDFACING Ø                             | R | 2.38  | 60.3 |
| BLANK SUB Ø                              | S | 2.13  | 54.0 |



| INTERNALS                                |   | USC   | SI   |
|------------------------------------------|---|-------|------|
| BIT BOX                                  | A | 5.5   | 0.14 |
| LOWER SHAFT FLOW REST.                   | B | 9.9   | 0.25 |
| BEARING ASSEMBLY ADAPTOR START           | C | 12.7  | 0.32 |
| BEARING ASSEMBLY ADAPTOR HARD-FACING END | D | 17.5  | 0.44 |
| FLEX SHAFT START                         | E | 20.5  | 0.52 |
| FLEX SHAFT - FLEX SECTION START          | F | 24.0  | 0.61 |
| FLEX SHAFT - FLEX SECTION END            | G | 48.2  | 1.22 |
| ROTOR START                              | H | 52.3  | 1.33 |
| ROTOR END                                | I | 135.4 | 3.44 |
| BIT BOX Ø                                | J | 2.10  | 53.3 |
| FLOW RESTRICTOR Ø                        | K | 1.38  | 35.1 |
| MANDREL Ø                                | L | 1.21  | 30.7 |
| BEARING ASSEMBLY ADAPTOR HARD-FACING Ø   | M | 1.32  | 33.5 |
| FLEXSHAFT HEAD Ø                         | N | 1.32  | 33.5 |
| FLEXSHAFT FLEX Ø                         | O | 0.75  | 19.1 |
| ROTOR HEAD Ø                             | P | 1.25  | 31.8 |
| ROTOR Ø                                  | Q | 1.24  | 31.4 |

This information is for reference only. Assemblies are displayed in an "Adjustable Configuration"

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.