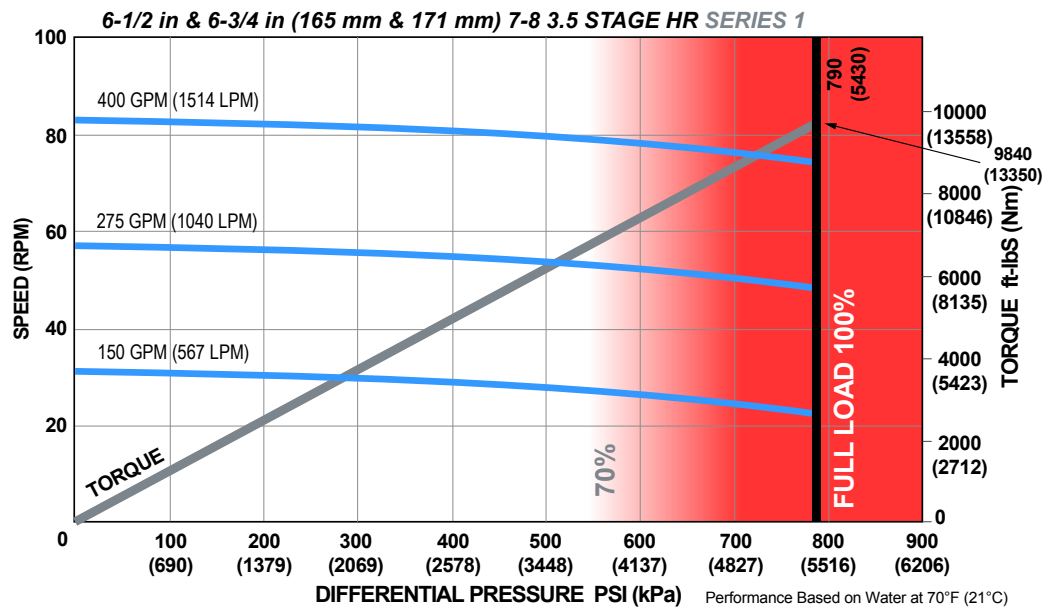


| | | | |
|---------------------------------------|-------------------|------------------|--------------|
| Bit Size Range | | 7-7/8 - 9-7/8 in | 200 - 251 mm |
| Bit Box Connection | | 4-1/2 REGULAR | |
| Bearing Load On Bottom | Dynamic | 128500 lbf | 57160 daN |
| | Static | 404500 lbf | 179930 daN |
| Bearing Load Off Bottom | Dynamic | 128500 lbf | 57160 daN |
| | Static | 404500 lbf | 179930 daN |
| Max. Overpull (for re-run) | | 406900 lbf | 181000 daN |
| Absolute Overpull | | 678200 lbf | 302000 daN |
| Adjustable Makeup Torque | | 25000 ft-lbs | 33895 Nm |
| A = Bit to Stabilizer (centre) | | 16.3 in | 414 mm |
| B = Bit to Bend | Adjustable | 73 in | 1854 mm |
| | Fixed | 61.1 in | 1552 mm |
| C = Overall (with Dump Sub) | | 362.4 in | 9205 mm |
| Weight | | 2654 lbs | 1203.8 kg |

| | | |
|--------------------------------------|-----------------------|------------|
| Lobe Configuration | 7-8 Lobe 3.5 Stage HR | |
| Displacement (NO LOAD) | 0.21 rev/gal | 0.05 rev/l |
| Max. Differential @ FULL LOAD | 790 psi | 5,447 kPa |
| Max. Torque | 9,840 ft-lbs | 13,341 Nm |
| Max. Power | 135 HP | 101 kW |

| Flow Rate | | Speed |
|-----------|-------|---------|
| GPM | LPM | RPM |
| 150 | 568 | 22 - 31 |
| 275 | 1,041 | 47 - 57 |
| 400 | 1,514 | 72 - 83 |



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

ADJUSTABLE BUILD RATE: 6 1/2 & 6 3/4 in (165 & 171 mm) 7-8 Lobe 3.5 Stage HR SERIES 1

| Hole Size | SLICK | | | | STABILIZED | | | |
|-------------------|-----------------------------|----------------|----------------|----------------|-----------------------------|----------------|----------------|----------------|
| | 7-7/8 (200 mm) | 8-1/2 (216 mm) | 8-3/4 (222 mm) | 9-7/8 (251 mm) | 7-7/8 (200 mm) | 8-1/2 (216 mm) | 8-3/4 (222 mm) | 9-7/8 (251 mm) |
| BEND ANGLE | Degrees per 100 Feet (30 m) | | | | Degrees per 100 Feet (30 m) | | | |
| 0.39 | 0.83 | - | - | - | 0.83 | 1.15 | 1.28 | 1.85 |
| 0.78 | 3.21 | 1.91 | 1.39 | - | 3.28 | 3.15 | 3.27 | 3.84 |
| 1.15 | 5.47 | 4.17 | 3.65 | 1.31 | 5.91 | 5.59 | 5.47 | 5.73 |
| 1.50 | 7.61 | 6.31 | 5.78 | 3.44 | 8.4 | 8.09 | 7.96 | 7.52 |
| 1.83 | 9.62 | 8.32 | 7.8 | 5.46 | 10.75 | 10.44 | 10.31 | 9.74 |
| 2.12 | 11.39 | 10.09 | 9.57 | 7.23 | 12.82 | 12.5 | 12.37 | 11.8 |
| 2.38 | 12.98 | 11.68 | 11.15 | 8.81 | 14.67 | 14.35 | 14.22 | 13.65 |
| 2.60 | 14.32 | 13.02 | 12.5 | 10.15 | 16.23 | 15.92 | 15.79 | 15.22 |
| 2.77 | 15.36 | 14.05 | 13.53 | 11.19 | 17.44 | 17.13 | 17 | 16.43 |
| 2.90 | 16.15 | 14.85 | 14.33 | 11.98 | 18.37 | 18.05 | 17.92 | 17.35 |
| 2.97 | 16.58 | 15.27 | 14.75 | 12.41 | 18.86 | 18.55 | 18.42 | 17.85 |
| 3.00 | 16.76 | 15.46 | 14.94 | 12.59 | 19.08 | 18.76 | 18.63 | 18.06 |

FBH BUILD RATE: 6-1/2 & 6-3/4 in (165 & 171 mm) 7-8 Lobe 3.5 Stage HR SERIES 1

| Hole Size | SLICK | | | | STABILIZED | | | |
|-------------------|-----------------------------|----------------|----------------|----------------|-----------------------------|----------------|----------------|----------------|
| | 7-7/8 (200 mm) | 8-1/2 (216 mm) | 8-3/4 (222 mm) | 9-7/8 (251 mm) | 7-7/8 (200 mm) | 8-1/2 (216 mm) | 8-3/4 (222 mm) | 9-7/8 (251 mm) |
| BEND ANGLE | Degrees per 100 Feet (30 m) | | | | Degrees per 100 Feet (30 m) | | | |
| 1.25 | 5.82 | 4.31 | 3.7 | 0.97 | 6.37 | 6.05 | 5.94 | 6.51 |
| 1.50 | 7.35 | 5.83 | 5.23 | 2.5 | 8.1 | 7.78 | 7.65 | 7.84 |
| 1.75 | 8.88 | 7.36 | 6.75 | 4.02 | 9.82 | 9.51 | 9.38 | 9.17 |
| 2.00 | 10.4 | 8.89 | 8.28 | 5.55 | 11.55 | 11.23 | 11.11 | 10.54 |
| 2.25 | 11.93 | 10.41 | 9.8 | 7.08 | 13.28 | 12.96 | 12.83 | 12.26 |

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.