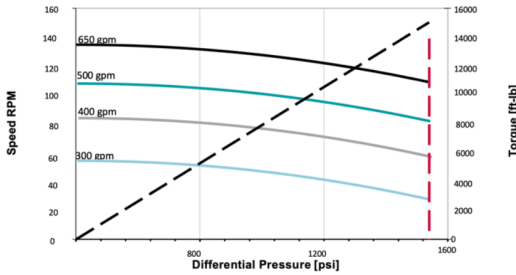
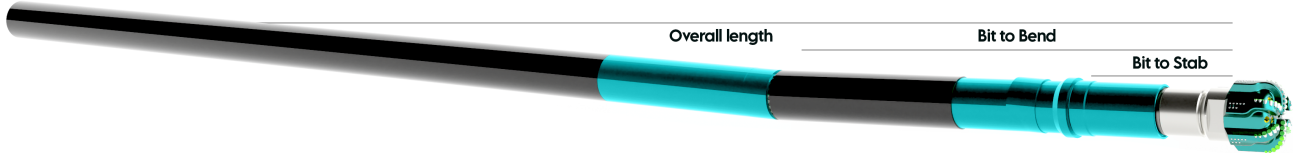


NEWSCO Motor

7" 7/8 Lobes 7.3 Stage



| | | |
|---------------------------|----------------|---------------|
| Torque Slope | 9.70 ft-lb/psi | |
| REV / Gal | 0.266 rev/gal | 0.070 rev/lpm |
| RPM | 80-200 rpm | |
| Flow range | 300-750 gpm | 1136-2839 lpm |
| Max Differential | 1800 psi | 12411 kPa |
| Max Torque | 17500 ft. lbs | 23727 N-m |
| Stall Differential | 1840 psi | 12686 kPa |
| Stall Torque | 26250 lb-ft | 35590 N-m |
| Max Weight on Bit | 11000 lbs | 48 kN |
| Weight | 3100 pounds | 1406 kilos |



Motor Lengths

| Bit to Stab | Bit to Bend | Overall Length | Slick OD | Wear Pad OD |
|-----------------------|--------------|--------------------------|------------|-------------|
| 23.00 in | 54.00 in | 420.00 in | 7.00 in | 7.50 in |
| Top Connection | As Requested | Bottom Connection | 4 1/2" Reg | |

Predicted Build Rates - Degrees/100 ft (30 m)

| Deg. Bend | Slick Hole Size | | | Single Stabilizer Hole Size | | | Double Stabilizer Hole Size | | |
|-----------|-----------------|-------|-------|-----------------------------|-------|-------|-----------------------------|-------|-------|
| | 8 1/2 | 8 3/4 | 9 7/8 | 8 1/2 | 8 3/4 | 9 7/8 | 8 1/2 | 8 3/4 | 9 7/8 |
| 1.50 | 6.01 | 5.77 | 4.09 | 6.52 | 6.59 | 6.78 | 6.25 | 6.31 | 6.50 |
| 1.76 | 7.29 | 7.00 | 4.96 | 7.79 | 7.87 | 8.10 | 8.76 | 8.85 | 9.11 |
| 2.00 | 8.47 | 8.13 | 5.76 | 8.96 | 9.05 | 9.32 | 8.69 | 8.78 | 9.04 |
| 2.15 | 9.11 | 8.74 | 6.19 | 9.63 | 9.73 | 10.02 | 9.34 | 9.44 | 9.72 |
| 2.25 | 9.60 | 9.22 | 6.53 | 10.09 | 10.19 | 10.49 | 9.82 | 9.92 | 10.21 |
| 2.38 | 10.53 | 10.11 | 7.16 | 11.01 | 11.12 | 11.45 | 10.74 | 10.85 | 11.17 |
| 2.50 | 10.96 | 10.52 | 7.45 | 11.41 | 11.53 | 11.87 | 11.16 | 11.27 | 11.61 |
| 2.74 | 12.11 | 11.63 | 8.23 | 12.58 | 12.70 | 13.08 | 12.31 | 12.43 | 12.80 |
| 3.00 | 13.83 | 12.85 | 9.10 | 13.85 | 13.99 | 14.40 | 13.58 | 13.71 | 14.12 |

Maximum Suggested RPM for Straight Sections of Well bore

| Motor Size | Bit size | 0.00 | 0.38 | 0.75 | 1.15 | 1.50 | 1.75 | 1.83 | 2.00 | 2.15 | 2.25 | 2.38 |
|------------|----------|------|------|------|------|------|------|------|------|------|------|------|
| 7" | 9 7/8 | 100 | 100 | 100 | 80 | 80 | 60 | 60 | 60 | 40 | 40 | 20 |
| 7" | 8 3/4 | 100 | 100 | 100 | 80 | 80 | 50 | 50 | 50 | 30 | 20 | 20 |
| 7" | 8 1/2 | 100 | 100 | 80 | 60 | 50 | 40 | 40 | 30 | 30 | 20 | 20 |

Maximum Suggested RPM for Build Sections of Well bore

| Motor Size | Bit size | 0.00 | 0.38 | 0.75 | 1.15 | 1.50 | 1.75 | 1.83 | 2.00 | 2.15 | 2.25 | 2.38 |
|------------|----------|------|------|------|------|------|------|------|------|------|------|------|
| 7" | 9 7/8 | 80 | 80 | 60 | 60 | 50 | 50 | 50 | 40 | 40 | 30 | 30 |
| 7" | 8 3/4 | 80 | 80 | 50 | 50 | 40 | 40 | 40 | 30 | 30 | 30 | 20 |
| 7" | 8 1/2 | 80 | 60 | 50 | 40 | 40 | 40 | 40 | 30 | 20 | 20 | 20 |

* The charts above display the maximum theoretical allowable rotation for optimal hole conditions. The RPM limits above are for optimal hole conditions and normal drilling conditions and parameters. These should be reduced further when operating with high vibration, high rotary torque, poor hole quality, high WOB, stick slip, hard stall events and other abnormal conditions.



+1 (832) 924-4020

WWW.NEWSCO-DRILLING.COM

6623 Willowbrook Park, Houston, Texas 77066. e-mail: NEWSCO.SALES@newsco-drilling.com