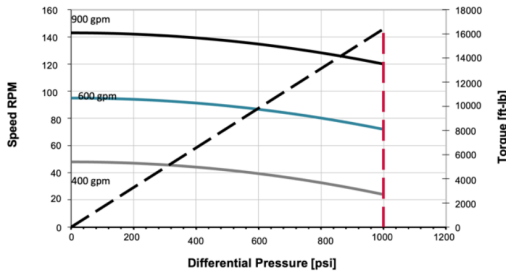
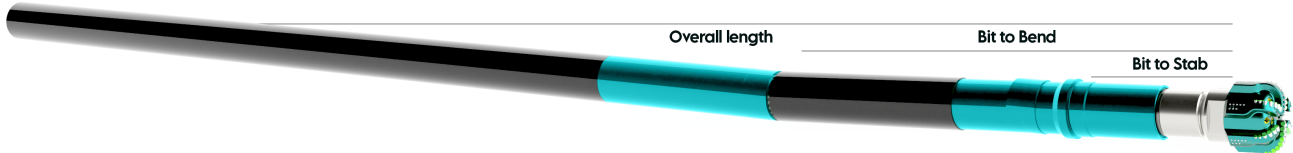


# NEWSCO Motor

## 8" 7/8 Lobes 4.0 Stage



<b>Torque Slope</b>	15.82 ft-lb/psi	
<b>REV / Gal</b>	0.170 rev/gal	0.045 rev/lpm
<b>RPM</b>	60-140 rpm	
<b>Flow range</b>	300-900 gpm	1136-3407 lpm
<b>Max Differential</b>	944 psi	6509 kPa
<b>Max Torque</b>	14934 ft. lbs	20248 N-m
<b>Stall Differential</b>	1481 psi	10211 kPa
<b>Stall Torque</b>	23432 lb-ft	31770 N-m
<b>Max Weight on Bit</b>	142000 lbs	631 kN
<b>Weight</b>	3800 pounds	1724 kilos



### Motor Lengths

Bit to Stab	Bit to Bend	Overall Length	Slick OD	Wear Pad OD
30.00 in	68.00 in	349.00 in	8.00 in	8.50 in
<b>Top Connection</b>	As Requested	<b>Bottom Connection</b>	6 5/8" Reg	

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

Deg. Bend	Slick			Single Stabilizer			Double Stabilizer		
	Hole Size			Hole Size			Hole Size		
Setting	9 7/8	10 5/8	12 1/4	9 7/8	10 5/8	12 1/4	9 7/8	10 5/8	12 1/4
1.50	7.14	6.99	5.49	8.88	9.14	9.88	8.58	8.83	9.54
1.76	8.85	8.67	6.81	10.41	10.72	11.58	10.24	10.55	11.39
2.00	10.43	10.22	8.03	11.82	12.18	13.15	11.78	12.13	13.10
2.15	11.22	10.99	8.64	12.71	13.09	14.14	12.66	13.04	14.08
2.25	11.95	11.71	9.20	13.17	13.57	14.66	13.25	13.64	14.74
2.38	13.20	12.94	10.17	14.29	14.72	15.90	14.46	14.90	16.09
2.50	13.81	13.54	10.64	14.74	15.18	16.40	14.99	15.44	16.67
2.74	15.31	15.01	11.79	16.18	16.66	18.00	16.51	17.01	18.37
3.00	17.03	16.69	13.11	17.71	18.24	19.70	18.17	18.72	20.22

### 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
8"	12 1/4	100	100	100	80	80	60	60	60	40	40	20
8"	10 5/8	100	100	100	80	80	50	50	50	40	40	20
8"	9 7/8	100	80	80	70	60	40	40	40	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
8"	12 1/4	80	80	80	60	60	60	60	40	40	40	20
8"	10 5/8	80	80	50	50	40	40	40	40	40	40	20
8"	9 7/8	80	60	50	50	40	30	30	30	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.



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