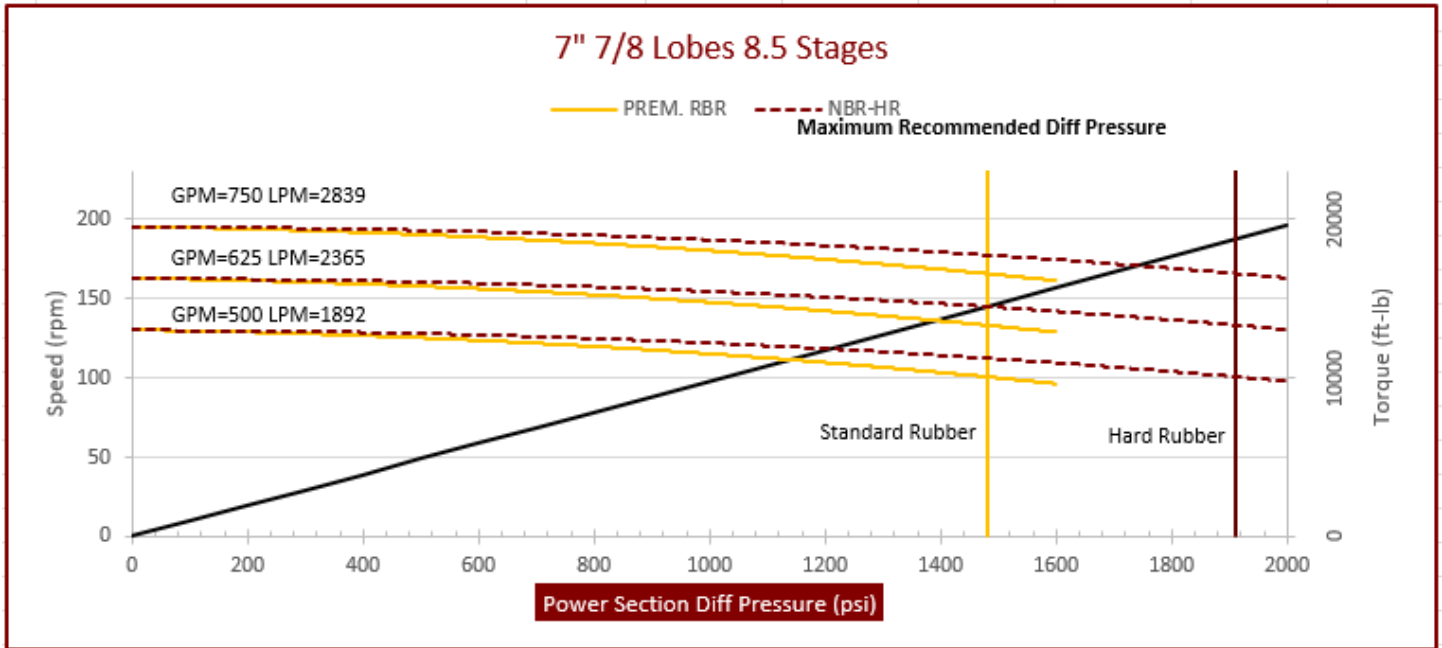


MECHANICAL PERFORMANCE		
Max. Weight on Bit	85,000 lbs	378 kN
Max. Pull to Re-Run	225,000 lbs	1,000 kN
Pull to Yield	650,000 lbs	2,891 kN
Bit to Bend (ABH)	71.10 in	1,806 mm
Bit to Bend (FBH)	52.36 in	1,330 mm
Weight	3,648 lbs	1,655 kg
Length	35.58 ft	10.84 m
Top Connection (Box)	4-1/2IF; 4-1/2 XH	
Bit Connection (Box)	4 1/2" Reg	

FBH SETTING	SLICK HOUSING			STABILIZED HOUSING		
	HOLE SIZE			1/8" UNDERGAGE HOLE SIZE		
	DEG	8 1/2"	8 3/4"	9 7/8"	8 1/2"	8 3/4"
<b>0.25</b>	1.19	0.53	0.12	1.71	1.82	2.25
<b>0.50</b>	2.46	1.48	0.74	2.99	3.09	3.53
<b>0.75</b>	3.74	2.62	1.87	4.26	4.37	4.80
<b>1.00</b>	5.02	3.41	2.76	5.54	5.65	6.08
<b>1.25</b>	6.30	4.41	3.46	6.82	6.93	7.36
<b>1.50</b>	7.58	5.30	4.24	8.10	8.21	8.64
<b>1.75</b>	8.85	6.20	5.31	9.38	9.48	9.92
<b>2.00</b>	10.13	8.10	6.08	10.65	10.76	11.19
<b>2.25</b>	11.41	9.36	7.42	11.93	12.04	12.47
<b>2.50</b>	12.69	10.40	9.13	13.21	13.32	13.75
<b>2.75</b>	13.97	11.45	10.05	14.49	14.60	15.03
<b>3.00</b>	15.24	12.50	10.98	15.77	15.87	16.31

POWER SECTION PERFORMANCE SPECIFICATIONS		
Torque Slope	9.797 ft-lb/psi	1.927 Nm/kPa
Flow Range	500-750 GPM	1,890-2,840 LPM
Rotation	0.260 rev/gal	
Speed Range	130-200 rpm	
Off Bottom Press	179 psi	1,230 kPa

POWER SECTION PERFORMANCE DETAILS	PREM RUBBER	HARD RUBBER
	Max Diff Press psi (kPa)	1,480 (10,200)
Max Torque ft-lb (Nm)	14,500 (19,660)	18,710 (25,370)
Stall Diff Press psi (kPa)	2,220 (15,306)	2,865 (19,785)
Stall Torque ft-lb (Nm)	21,750 (29,490)	28,060 (38,060)
Max Recommended HP (kW)	500 (372)	651 (486)



Operating a power section above the maximum recommended differential pressure will reduce stator life. Performance curves are for reference only. Actual power section performance may vary depending on the down hole temperature and rotor/stator fit. Performance data are subject to change without notice.