



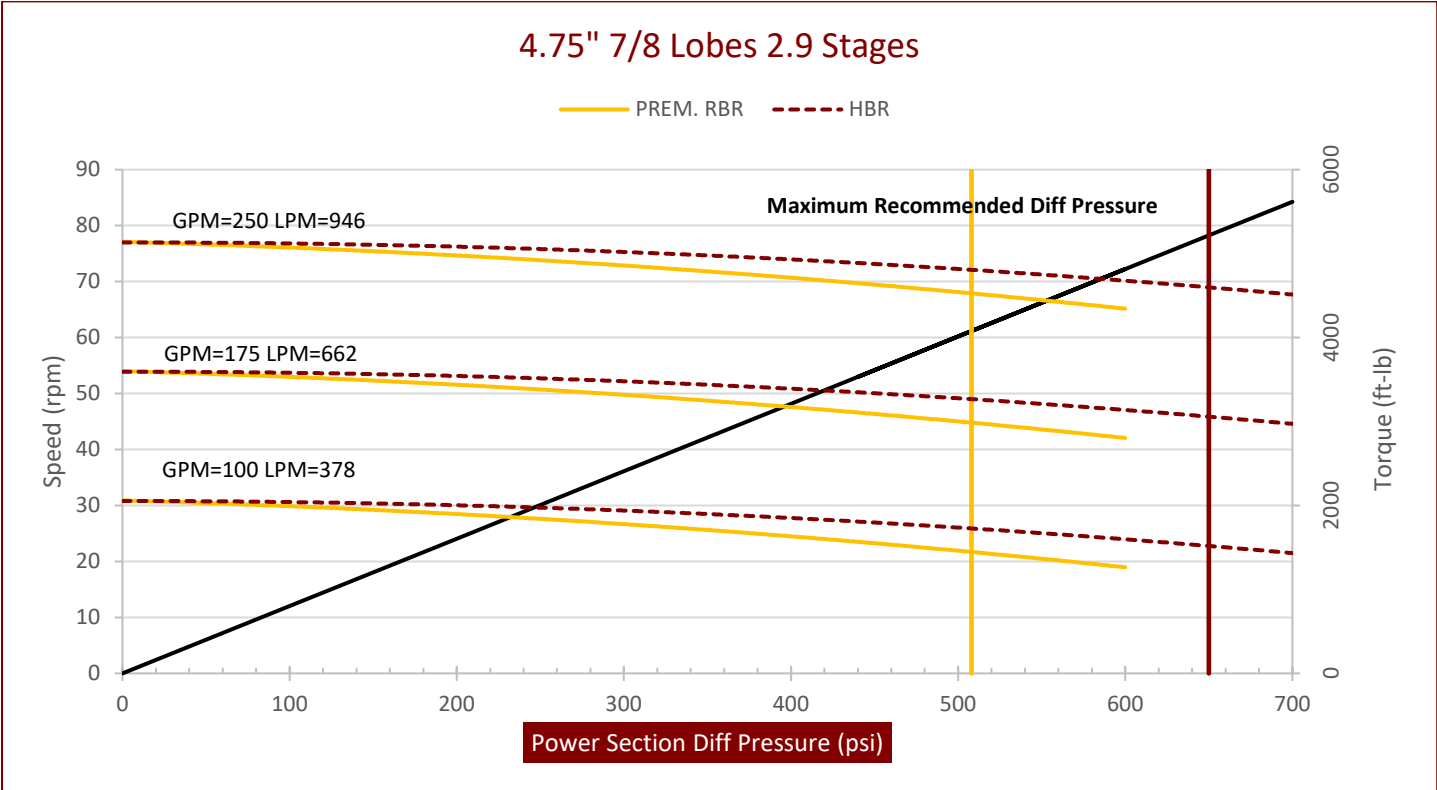
# 4-3/4" 7/8 Lobes 2.9 Stages Combo (5" Lower End)

MECHANICAL PERFORMANCE		
Max. Weight on Bit	50,000 lbs	222 kN
Max. Pull to Re-Run	100,000 lbs	445 kN
Pull to Yield	300,000 lbs	1,334 kN
Bit to Bend (ABH)	50.4 in	1,280 mm
Bit to Bend (FBH)	42.8 in	1,087 mm
Weight	1,254 lbs	569 kg
Length	28.8 ft	8.79 m
Top Connection (Box)	3 1/2" IF	
Bit Connection (Box)	3 1/2" Reg	

ABH SETTING	SLICK HOUSING			STABILIZED HOUSING 1/8" UNDERGAGE		
	HOLE SIZE			HOLE SIZE		
DEG	6"	6 1/8"	6 3/4"	6"	6 1/8"	6 3/4"
0.39	2.43	1.94	1.85	2.72	2.91	3.26
0.78	4.7	3.86	2.77	5.08	5.27	5.63
1.15	6.86	6.09	4.65	7.33	7.51	7.87
1.50	8.9	8.15	6.76	9.45	9.64	9.99
1.83	10.82	10.08	8.72	11.45	11.64	11.99
2.12	12.51	11.78	10.43	13.20	13.39	13.75
2.38	14.02	13.30	11.96	14.78	14.97	15.32
2.60	15.3	14.48	13.16	16.11	16.30	16.66
2.77	16.29	15.58	14.15	17.14	17.33	17.69
2.89	16.99	16.28	14.85	17.87	18.06	18.42
2.97	17.46	16.75	15.33	18.36	18.55	18.90
3.00	17.63	16.92	15.50	18.54	18.73	19.08

POWER SECTION PERFORMANCE SPECIFICATIONS		
Torque Slope	8.02 ft-lb/psi	1.569 Nm/kPa
Flow Range	100 - 250 GPM	378-946 LPM
Rotation	0.308 Rev/Gal	
Speed Range	30-77 RPM	
Off Bottom Press	39 psi	270 kPa

	POWER SECTION PERFORMANCE DETAILS	
	PREM. RUBBER	HARD RUBBER
Max Diff Press psi (kPa)	506 (3,490)	650 (4,500)
Max Torque ft-lb (Nm)	4,060 (5,505)	5,210 (7,060)
Stall Diff Press psi (kPa)	760 (5,240)	980 (6,750)
Stall Torque ft-lb (Nm)	6,090 (8,260)	7,810 (10,590)
Max Recommended HP (kW)	54 (40)	73 (54)



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.