

4-3/4"**7:8 Lobe****2 Stage****Motor Specifications**

Flow Rate	100 - 250 gpm	379 - 946 lpm
Rev. Per Gallon	0.30	
Bit Speed	30 -75 rpm	
Maximum Power	45 hp	108 kW
Maximum Torque	5,974 lb-ft	3,864 N-m
Maximum Torque at Full Load	4,350 lb-ft	2,915 N-m
Diff. Pressure at Max. Torque	894 psi	4,137 kPa
Diff. Pressure at Full Load	561 psi	3,103 kPa
Maximum Bit Pressue Drop	1,500 psi	10,300 kPa
Maximum Weight on Bit	25,000 lbs	111 kN
Maximum Pull to Re-Run Motor	100,000 lbs	445 kN
Pull to Yield Motor	300,000 lbs	1,334 kN
Bit to Bend	46 in	1,168 mm
Length	16.7 ft	5.08 m
Weight	870 lbs	395 Kg
Top Connection (Box)	3-1/2 Reg / 3-1/2 IF	
Bit Connection (Box)	3-1/2 Reg	

Predicted ABH Build Rate – Degrees / 100 ft (30m)

Bend Angle Deg	Slick Assembly Hole Size			Single Stabilizer Hole Size		
	6"	6-1/8"	6-3/4"	6"	6-1/8"	6-3/4"
0.31	0.00	0.00	0.00	4.89	5.28	7.22
0.62	0.00	0.00	0.00	8.60	8.99	10.92
0.93	3.07	2.03	0.00	12.32	12.70	14.62
1.22	7.37	6.32	1.20	15.79	16.18	18.08
1.50	11.51	10.46	5.33	19.15	19.53	21.42
1.76	15.36	14.31	9.16	22.27	22.65	24.52
2.00	18.91	17.86	12.70	25.15	25.52	27.39
2.23	22.32	21.26	16.09	27.90	28.28	30.13
2.42	25.13	24.07	18.99	30.18	30.55	32.40
2.60	27.79	26.73	21.54	32.34	32.71	34.55
2.74	29.87	28.81	23.60	34.02	34.39	36.22
2.85	31.50	30.43	25.23	35.34	35.71	37.54
2.93	32.68	31.62	26.41	36.30	36.67	38.49
2.98	33.42	32.36	27.14	36.90	37.26	39.09
3.00	33.72	32.65	27.44	37.14	37.50	39.33

