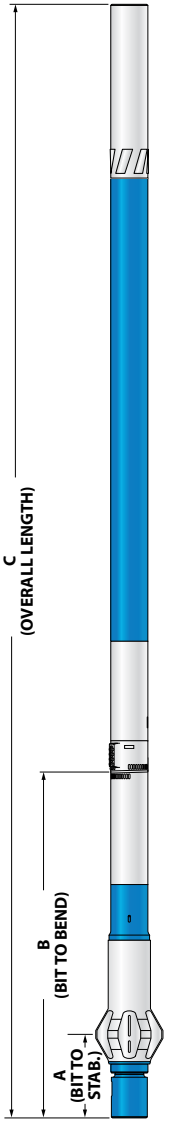
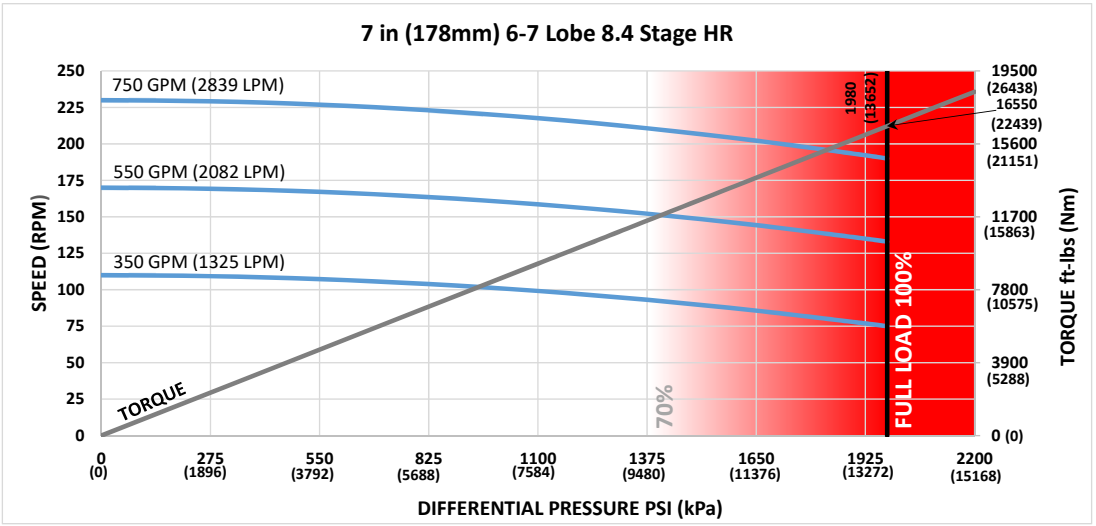
7 in (178mm) 6-7 Lobe 8.4 Stage HR MUD LUBE



Bit Size Range		8-½ - 9-⅞ in	216 - 251 mm
Bit Box Connection		4-½ REGULAR	
Dynamic Bearing Load On/Off Bottom		100357 lbf	44600 daN
Static Bearing Load On/Off Bottom		355612 lbf	158200 daN
Max. Overpull (For Re-run)		432800 lbf	192500 daN
Absolute Overpull		721400 lbf	320900 daN
Adjustable Makeup Torque		25000 ft-lbs	33900 Nm
Stab/Thread Protector Makeup Torque		12000 ft-lbs	16300 Nm
A = Bit to Stabilizer (Centre)		21.1 in	536 mm
B = Bit to Bend	**Adjustable**	66.7 in	1694 mm
	Fixed	54.6 in	1387 mm
C = Overall (With Dump Sub)		404.7 in	10279 mm
Weight		2884 lbs	1308 kg

Lobe Configuration	6-7 Lobe 8.4 Stage HR	
Displacement (No Load)	0.3 rev/gal	0.08 rev/l
Max. Differential (Full Load)	1980 psi	13652 kPa
Max. Torque	16550 ft-lbs	22439 Nm
Max. Power	599 HP	446 kW

Flow Rate		**Speed**
GPM	**LPM**	**RPM**
350	1325	75 - 110
550	2082	133 - 170
750	2839	190 - 230



Possible damage may occur when motor is run higher than 70% of Maximum Differential Pressure.

ADJUSTABLE BUILD RATE

Hole Size	SLICK				STABILIZED			
	8-½ (216mm)	8-¾ (222mm)	9-⅞ (251mm)	9-⅞ (251mm)	8-½ (216mm)	8-¾ (222mm)	9-⅞ (251mm)	9-⅞ (251mm)
BEND ANGLE	Degrees per 100 Feet (30 m)				Degrees per 100 Feet (30 m)			
0.39	2.9	2.4	-	-	2.9	2.4	2.8	2.8
0.78	5.4	4.8	2.2	2.2	5.4	4.8	4.9	4.9
1.15	7.7	7.1	4.5	4.5	7.7	7.1	6.9	6.9
1.50	9.8	9.3	6.7	6.7	9.8	9.3	8.8	8.8
1.83	11.9	11.3	8.7	8.7	11.9	11.3	10.6	10.6
2.12	13.7	13.1	10.5	10.5	13.7	13.1	12.2	12.2
2.38	15.3	14.7	12.1	12.1	15.3	14.7	13.6	13.6
2.60	16.7	16.1	13.5	13.5	16.7	16.1	14.8	14.8
2.77	17.7	17.1	14.6	14.6	17.7	17.1	15.7	15.7
2.90	18.5	17.9	15.4	15.4	18.5	17.9	16.4	16.4
2.97	19.0	18.4	15.8	15.8	19.0	18.4	16.8	16.8
3.00	19.1	18.6	16.0	16.0	19.1	18.6	16.9	16.9

Note: Stabilizers are ⅛" undergage

FBH BUILD RATE

Hole Size	SLICK				STABILIZED			
	8-½ (216mm)	8-¾ (222mm)	9-⅞ (251mm)	9-⅞ (251mm)	8-½ (216mm)	8-¾ (222mm)	9-⅞ (251mm)	9-⅞ (251mm)
BEND ANGLE	Degrees per 100 Feet (30 m)				Degrees per 100 Feet (30 m)			
1.25	5.7	5.1	2.0	2.0	7.0	7.2	7.7	7.7
1.50	7.3	6.6	3.6	3.6	8.4	8.6	9.1	9.1
1.75	8.8	8.2	5.1	5.1	9.8	10.0	10.5	10.5
2.00	10.4	9.7	6.7	6.7	11.2	11.4	11.9	11.9
2.25	11.9	11.3	8.2	8.2	12.6	12.8	13.3	13.3
2.50	13.5	12.8	9.8	9.8	14.1	14.2	14.7	14.7

This information is for reference only. Build rates are theoretical calculations using three-point geometry and new motor builds. Actual rate predictions will depend on formation characteristics, bit profiles, and WOB.

For custom motor configurations and build rates, please contact your DYNOMAX office.

June 1, 2020

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