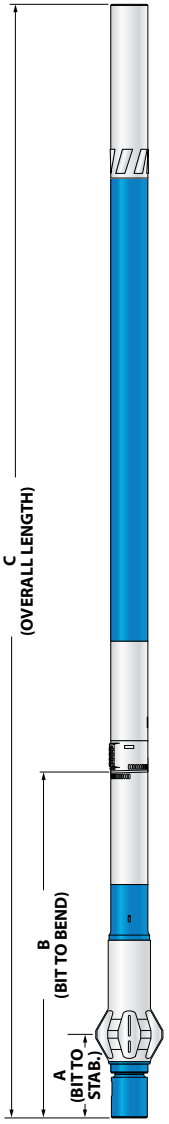
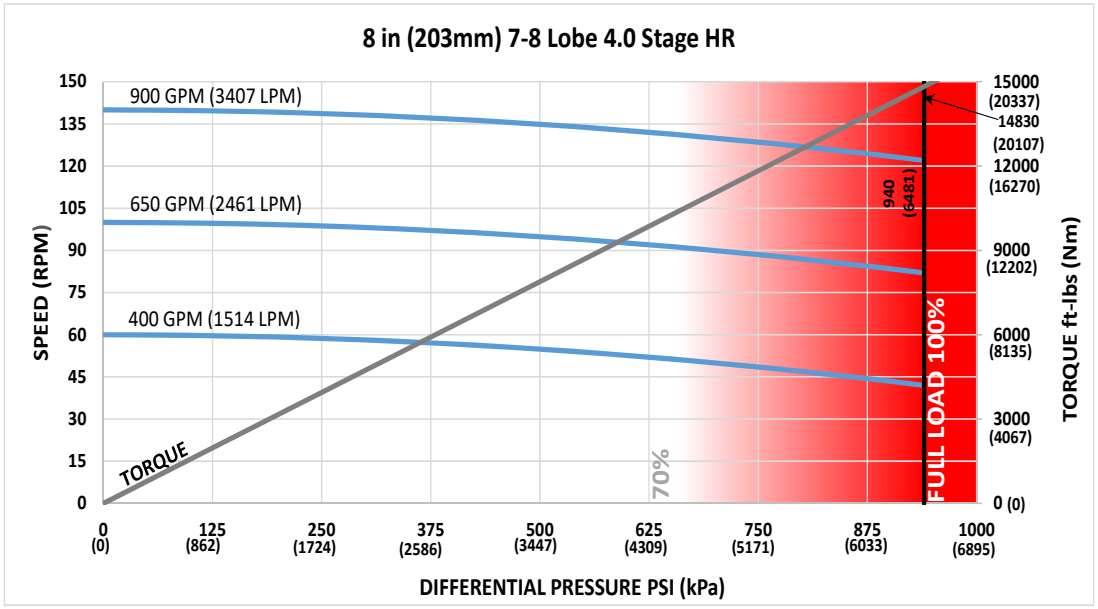
8 in (203 mm) 7-8 Lobe 4.0 Stage HR MUD LUBE



Bit Size Range	9-⅞ - 12-¼ in	251 - 311 mm
Bit Box Connection	6-⅝ REGULAR	
Dynamic Bearing Load On/Off Bottom	145951 lbf	64900 daN
Static Bearing Load On/Off Bottom	534312 lbf	237700 daN
Max. Overpull (For Re-run)	542500 lbf	241300 daN
Absolute Overpull	904100 lbf	402200 daN
Adjustable Makeup Torque	40000 ft-lbs	54200 Nm
Stab/Thread Protector Makeup Torque	21000 ft-lbs	28500 Nm
A = Bit to Stabilizer (Centre)	23.5 in	597 mm
B = Bit to Bend Adjustable	74.9 in	1902 mm
B = Bit to Bend Fixed	60.3 in	1532 mm
C = Overall (With Dump Sub)	344.35 in	8746 mm
Weight	4061 lbs	1842 kg

Lobe Configuration	7-8 Lobe 4 Stage HR	
Displacement (No Load)	0.16 rev/gal	0.04 rev/l
Max. Differential (Full Load)	940 psi	6481 kPa
Max. Torque	14830 ft-lbs	20107 Nm
Max. Power	344 HP	257 kW

Flow Rate		Speed
GPM	**LPM**	**RPM**
400	1514	42 - 60
650	2461	82 - 100
900	3407	122 - 140



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

ADJUSTABLE BUILD RATE

Hole Size	SLICK				STABILIZED			
	9-⅞ (251mm)	10-⅝ (270mm)	11-½ (292mm)	12-¼ (311mm)	9-⅞ (251mm)	10-⅝ (270mm)	11-½ (292mm)	12-¼ (311mm)
BEND ANGLE	Degrees per 100 Feet (30m)				Degrees per 100 Feet (30m)			
0.39	-	-	-	-	2.8	3.3	-	-
0.78	2.3	0.4	-	-	5.1	5.7	6.3	6.9
1.15	5.0	3.2	1.0	-	7.4	8.0	8.6	9.2
1.50	7.6	5.8	3.6	1.8	9.5	10.1	10.7	11.3
1.83	10.1	8.2	6.1	4.3	11.6	12.1	12.8	13.3
2.12	12.2	10.4	8.3	6.4	13.3	13.9	14.5	15.1
2.38	14.2	12.3	10.2	8.3	14.9	15.5	16.1	16.7
2.60	15.8	14.0	11.8	10.0	16.3	16.8	17.5	18.0
2.77	17.1	15.2	13.1	11.3	17.3	17.9	18.5	19.1
2.90	18.0	16.2	14.1	12.2	18.1	18.7	19.3	19.9
2.97	18.6	16.7	14.6	12.7	18.6	19.1	19.7	20.3
3.00	18.8	16.9	14.8	13.0	18.8	19.3	19.9	20.5

Note: Stabilizers are ⅛" undergage

FBH BUILD RATE

Hole Size	SLICK				STABILIZED			
	9-⅞ (251mm)	10-⅝ (270mm)	11-½ (292mm)	12-¼ (311mm)	9-⅞ (251mm)	10-⅝ (270mm)	11-½ (292mm)	12-¼ (311mm)
BEND ANGLE	Degrees per 100 Feet (30m)				Degrees per 100 Feet (30m)			
1.25	5.0	2.8	0.2	-	8.5	9.0	9.7	10.2
1.50	6.9	4.6	2.1	-	10.1	10.7	11.3	11.9
1.75	8.7	6.5	3.9	1.7	11.7	12.3	12.9	13.5
2.00	10.6	8.4	5.8	3.6	13.3	13.9	14.6	15.1
2.25	12.5	10.2	7.7	5.5	15.0	15.5	16.2	16.7
2.50	14.3	12.1	9.5	7.3	16.6	17.2	17.8	18.4

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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