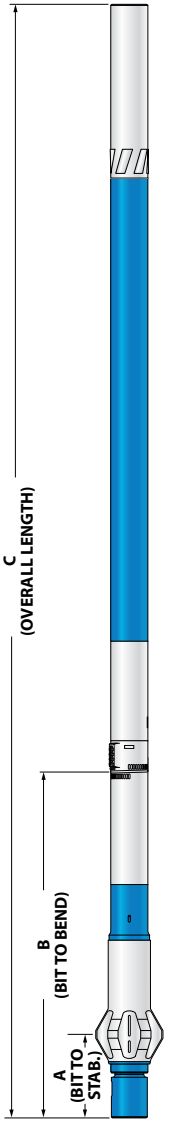
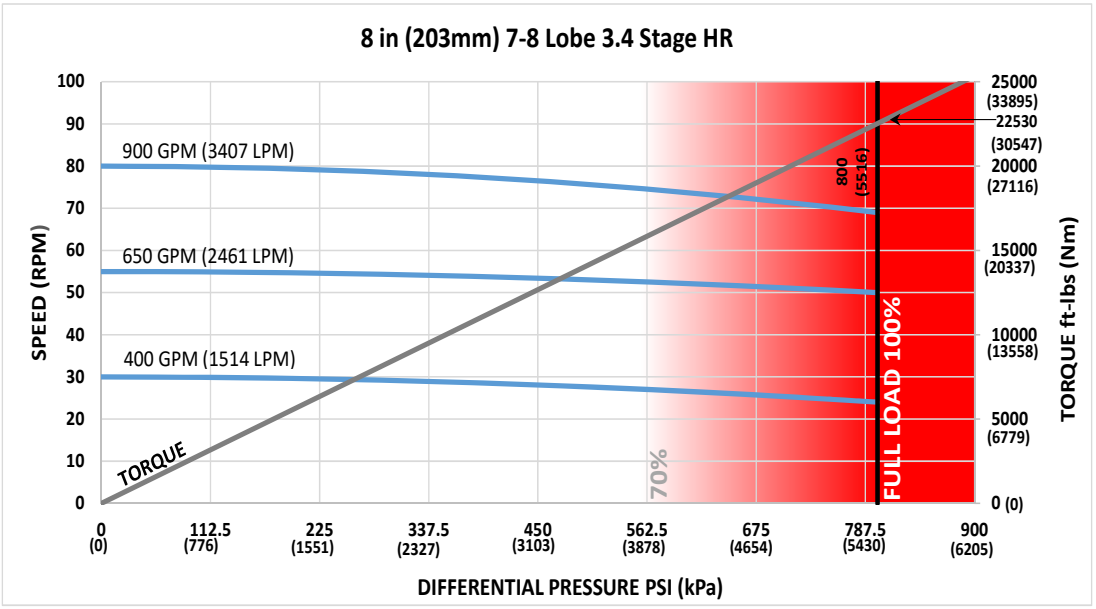
9-5/8 in (244 mm) Bottom w/ 8 in (203 mm) 7-8 Lobe 3.4 Stage HR SERIES 1



Bit Size Range		12-¼ - 17-½ in	311 - 445 mm
Bit Box Connection		6-⅝ or 7-⅝ REGULAR	
Dynamic Bearing Load On/Off Bottom		240975 lbf	107200 daN
Static Bearing Load On/Off Bottom		852600 lbf	379300 daN
Max. Overpull (For Re-run)		741100 lbf	329700 daN
Absolute Overpull		1235100 lbf	549400 daN
Adjustable Makeup Torque		60000 ft-lbs	81300 Nm
Stab/Thread Protector Makeup Torque		38000 ft-lbs	51500 Nm
A = Bit to Stabilizer (Centre)		20.2 in	513 mm
B = Bit to Bend	**Adjustable**	87.3 in	2217 mm
	Fixed	72.7 in	1847 mm
C = Overall (With Dump Sub)		458.7 in	11651 mm
Weight		5817 lbs	2639 kg

Lobe Configuration	7-8 Lobe 3.4 Stage HR	
Displacement (No Load)	0.09 rev/gal	0.02 rev/l
Max. Differential (Full Load)	800 psi	5516 kPa
Max. Torque	22530 ft-lbs	30547 Nm
Max. Power	296 HP	221 kW

Flow Rate		Speed
GPM	**LPM**	**RPM**
400	1514	24 - 30
650	2461	50 - 55
900	3407	69 - 80



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

ADJUSTABLE BUILD RATE

Hole Size	SLICK				STABILIZED			
	12-¼ (311mm)	14 (356mm)	16 (406mm)	17-½ (445mm)	12-¼ (311mm)	14 (356mm)	16 (406mm)	17-½ (445mm)
BEND ANGLE	Degrees per 100 Feet (30m)				Degrees per 100 Feet (30m)			
0.39	-	-	-	-	2.7	3.4	-	-
0.78	1.9	-	-	-	4.5	5.2	6.0	6.5
1.15	3.9	1.2	-	-	6.2	6.9	7.7	8.2
1.50	5.8	3.2	0.1	-	7.8	8.5	9.3	9.8
1.83	7.6	5.0	1.9	-	9.3	10.0	10.8	11.3
2.12	9.2	6.6	3.5	1.2	10.6	11.3	12.1	12.7
2.38	10.7	8.0	4.9	2.6	11.8	12.5	13.3	13.8
2.60	11.9	9.2	6.1	3.8	12.8	13.5	14.3	14.9
2.77	12.8	10.1	7.0	4.8	13.6	14.3	15.0	15.6
2.90	13.5	10.8	7.8	5.5	14.2	14.9	15.6	16.2
2.97	13.9	11.2	8.1	5.8	14.5	15.2	16.0	16.5
3.00	14.0	11.4	8.3	6.0	14.6	15.3	16.1	16.7

Note: Stabilizers are ⅛" undergage

FBH BUILD RATE

Hole Size	SLICK				STABILIZED			
	12-¼ (311mm)	14 (356mm)	16 (406mm)	17-½ (445mm)	12-¼ (311mm)	14 (356mm)	16 (406mm)	17-½ (445mm)
BEND ANGLE	Degrees per 100 Feet (30m)				Degrees per 100 Feet (30m)			
1.25	4.3	1.2	-	-	6.9	7.6	8.4	8.9
1.50	5.7	2.5	-	-	8.1	8.8	9.5	10.1
1.75	7.0	3.9	0.3	-	9.3	10.0	10.7	11.3
2.00	8.4	5.3	1.7	-	10.5	11.2	11.9	12.5
2.25	9.8	6.6	3.1	0.4	11.7	12.3	13.1	13.7
2.50	11.1	8.0	4.4	1.8	12.9	13.5	14.3	14.9

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.

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7501 42 Street, Leduc, AB T9E 0R8 || Tel: 780.986.3070 || Fax: 780.986.3536

www.DYNOMAXDrillingTools.com **sales@DYNOMAXDrillingTools.com**