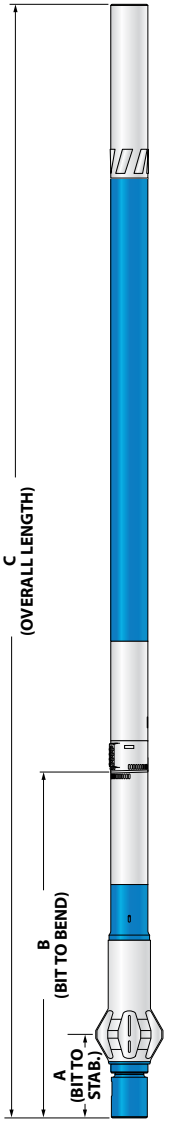
DYNOMAX DRILLING TOOLS INC

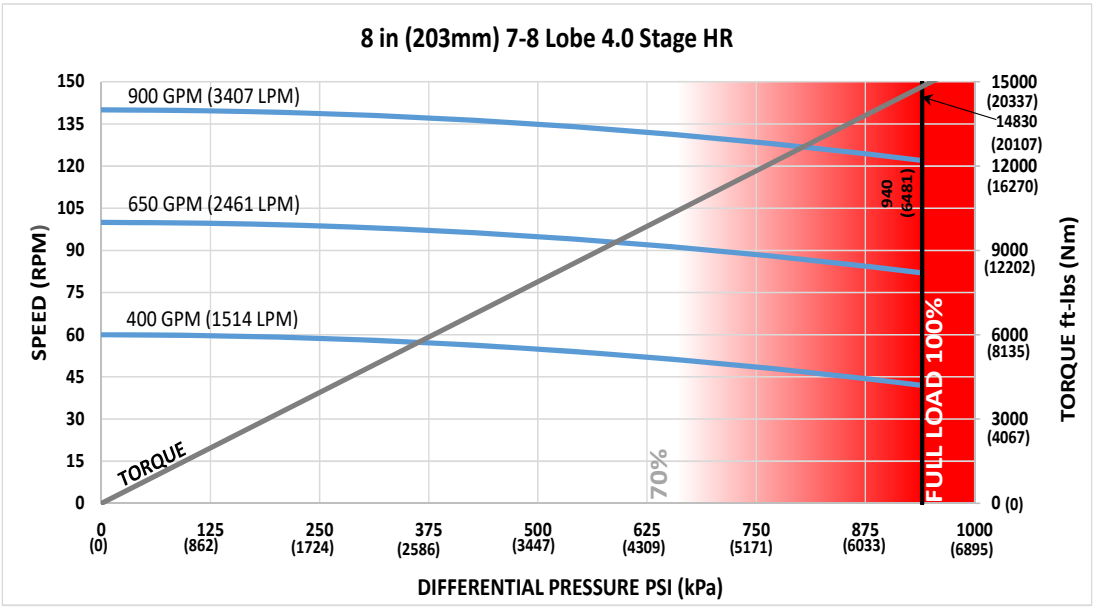
8 in (203 mm) 7-8 Lobe 4.0 Stage HR SERIES 1



Bit Size Range		9-⅞ - 12-¼ in	251 - 311 mm
Bit Box Connection		6-⅝ REGULAR	
Dynamic Bearing Load On/Off Bottom		162510 lbf	72300 daN
Static Bearing Load On/Off Bottom		573485 lbf	255100 daN
Max. Overpull (For Re-run)		554100 lbf	246500 daN
Absolute Overpull		923500 lbf	410800 daN
Adjustable Makeup Torque		40000 ft-lbs	54200 Nm
Stab/Thread Protector Makeup Torque		30000 ft-lbs	40700 Nm
A = Bit to Stabilizer (Centre)		19.26 in	489 mm
B = Bit to Bend	**Adjustable**	87 in	2210 mm
	Fixed	72.3 in	1836 mm
C = Overall (With Dump Sub)		355.95 in	9041 mm
Weight		4311 lbs	1956 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	-	-	-	-	2.4	2.9	-	-
0.78	2.6	1.1	-	-	4.5	5.1	5.6	6.2
1.15	5.3	3.7	1.9	0.3	6.6	7.1	7.7	8.2
1.50	7.8	6.2	4.4	2.8	8.6	9.1	9.7	10.2
1.83	10.1	8.6	6.8	5.2	10.4	10.9	11.5	12.0
2.12	12.2	10.7	8.9	7.3	12.2	12.5	13.1	13.6
2.38	14.1	12.5	10.7	9.2	14.1	14.0	14.6	15.1
2.60	15.7	14.1	12.3	10.7	15.7	15.2	15.8	16.3
2.77	16.9	15.3	13.5	12.0	16.9	16.1	16.7	17.2
2.90	17.8	16.3	14.5	12.9	17.8	16.9	17.5	18.0
2.97	18.3	16.8	15.0	13.4	18.3	17.3	17.9	18.4
3.00	18.5	17.0	15.2	13.6	18.5	17.4	18.0	18.5

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	5.4	3.6	1.5	-	7.6	8.1	8.7	9.2
1.50	7.2	5.4	3.3	1.4	9.1	9.6	10.2	10.7
1.75	9.0	7.2	5.1	3.2	10.6	11.1	11.7	12.2
2.00	10.8	9.0	6.9	5.0	12.0	12.6	13.1	13.7
2.25	12.6	10.8	8.7	6.8	13.5	14.0	14.6	15.1
2.50	14.4	12.6	10.4	8.6	15.0	15.5	16.1	16.6

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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