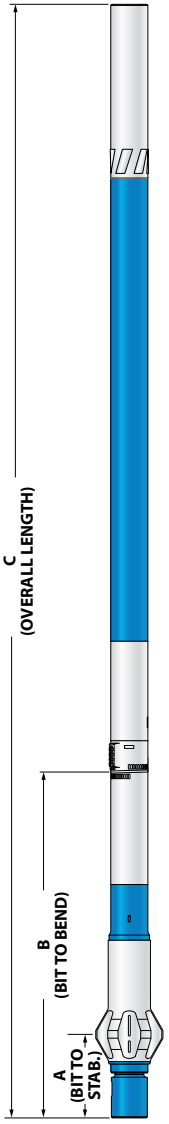
DYNOMAX DRILLING TOOLS INC

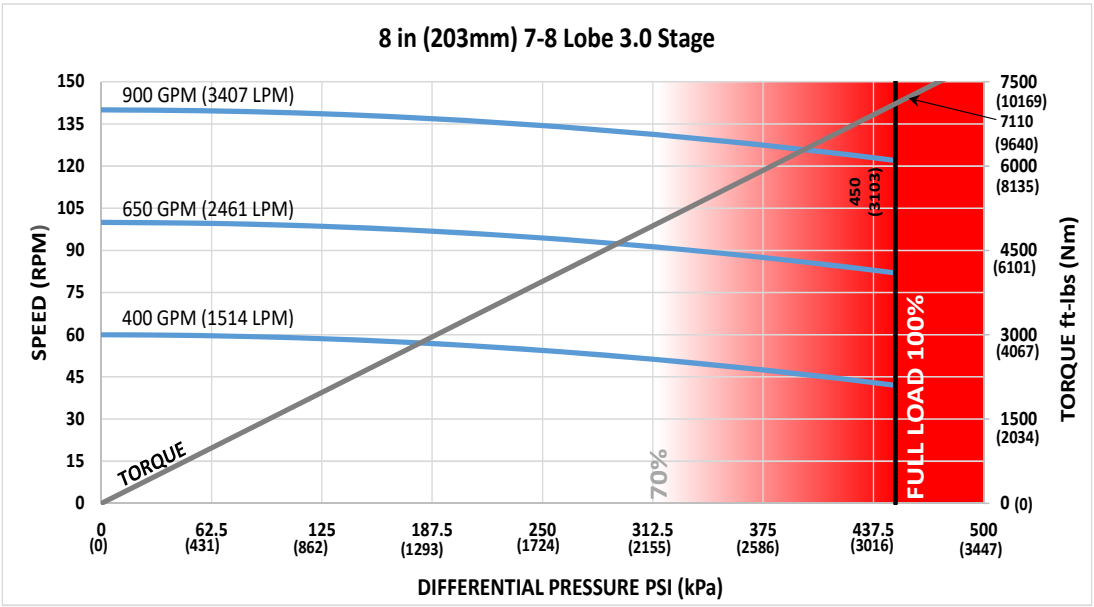
8 in (203 mm) 7-8 Lobe 3.0 Stage SERIES 2



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)		16.87 in	428 mm
B = Bit to Bend	**Adjustable**	74.7 in	1897 mm
	Fixed	60.1 in	1527 mm
C = Overall (With Dump Sub)		300.4 in	7630 mm
Weight		3660 lbs	1660 kg

Lobe Configuration	7-8 Lobe 3 Stage	
Displacement (No Load)	0.16 rev/gal	0.04 rev/l
Max. Differential (Full Load)	450 psi	3103 kPa
Max. Torque	7110 ft-lbs	9640 Nm
Max. Power	165 HP	123 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	-	-	-	-	3.0	3.7	-	-
0.78	2.6	0.5	-	-	5.6	6.3	7.2	7.9
1.15	5.8	3.7	1.2	-	8.0	8.8	9.6	10.4
1.50	8.8	6.7	4.2	2.1	10.3	11.1	11.9	12.7
1.83	11.7	9.5	7.1	4.9	12.5	13.3	14.1	14.9
2.12	14.2	12.0	9.5	7.4	14.4	15.2	16.0	16.8
2.38	16.4	14.3	11.8	9.7	16.4	16.9	17.8	18.5
2.60	18.3	16.2	13.7	11.6	18.3	18.4	19.2	20.0
2.77	19.8	17.6	15.1	13.0	19.8	19.5	20.3	21.1
2.90	20.9	18.7	16.3	14.1	20.9	20.3	21.2	21.9
2.97	21.5	19.4	16.9	14.7	21.5	20.8	21.7	22.4
3.00	21.7	19.6	17.1	15.0	21.7	21.0	21.9	22.6

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	5.8	3.2	0.3	-	9.3	10.1	10.9	11.7
1.50	8.0	5.4	2.4	-	11.1	11.8	12.7	13.4
1.75	10.1	7.5	4.6	2.0	12.9	13.6	14.5	15.2
2.00	12.3	9.7	6.7	4.1	14.7	15.4	16.3	17.0
2.25	14.4	11.8	8.9	6.3	16.4	17.2	18.0	18.8
2.50	16.6	14.0	11.0	8.5	18.2	19.0	19.8	20.6

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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