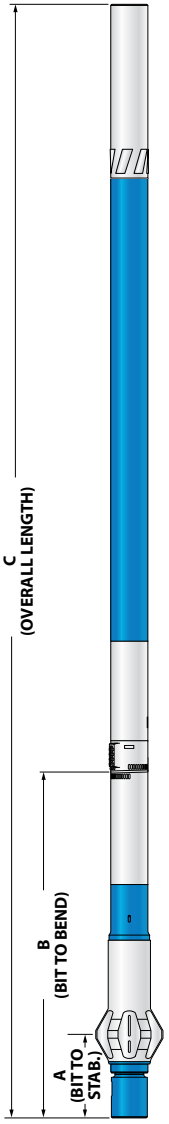
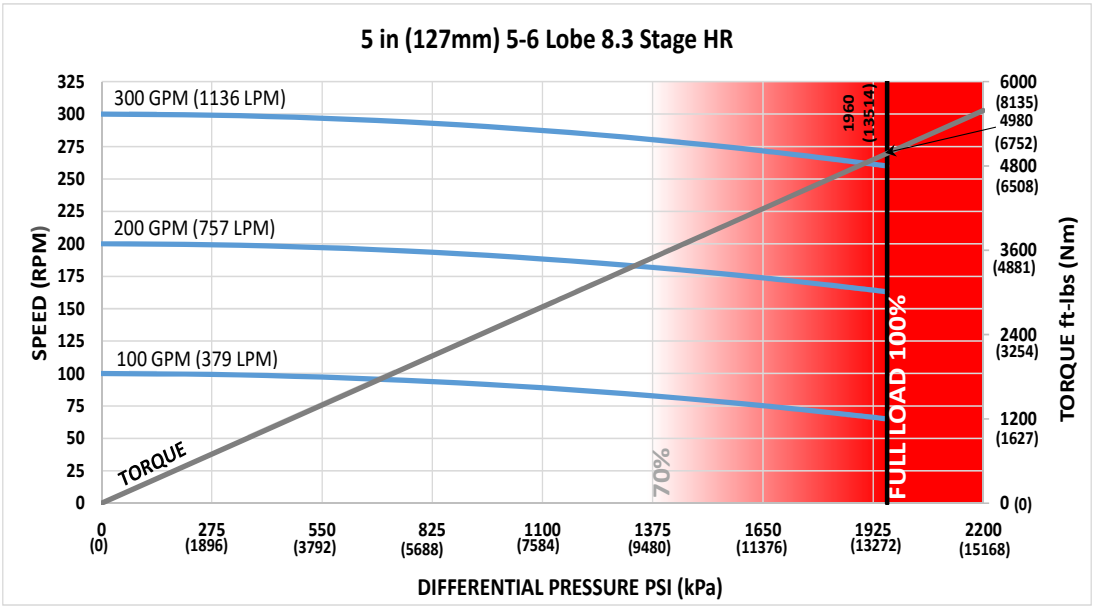
5 in (127 mm) 5-6 Lobe 8.3 Stage HR SERIES 2



Bit Size Range		5-⅝ - 6-¾ in	143 - 171 mm
Bit Box Connection		3-½ REGULAR	
Dynamic Bearing Load On/Off Bottom		71500 lbf	31800 daN
Static Bearing Load On/Off Bottom		229350 lbf	102000 daN
Max. Overpull (For Re-run)		328000 lbf	145900 daN
Absolute Overpull		546000 lbf	242900 daN
Adjustable Makeup Torque		12000 ft-lbs	16300 Nm
Stab/Thread Protector Makeup Torque		8000 ft-lbs	10800 Nm
A = Bit to Stabilizer (Centre)		16.7 in	424 mm
B = Bit to Bend	**Adjustable**	56.3 in	1430 mm
	Fixed	45.7 in	1161 mm
C = Overall (With Dump Sub)		351 in	8915 mm
Weight		1446 lbs	656 kg

Lobe Configuration	5-6 Lobe 8.3 Stage HR	
Displacement (No Load)	1 rev/gal	0.26 rev/l
Max. Differential (Full Load)	1960 psi	13514 kPa
Max. Torque	4980 ft-lbs	6752 Nm
Max. Power	247 HP	184 kW

Flow Rate		**Speed**
GPM	**LPM**	**RPM**
100	379	65 - 100
200	757	163 - 200
300	1136	260 - 300



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

ADJUSTABLE BUILD RATE

Hole Size	SLICK				STABILIZED			
	5-⅞ (149mm)	6 (152mm)	6-⅛ (156mm)	6-¼ (159mm)	5-⅞ (149mm)	6 (152mm)	6-⅛ (156mm)	6-¼ (159mm)
BEND ANGLE	Degrees per 100 Feet (30m)				Degrees per 100 Feet (30m)			
0.39	2.5	2.1	1.7	1.2	2.5	2.1	1.7	1.2
0.78	5.3	4.9	4.5	4.1	5.3	4.9	4.5	4.1
1.15	7.9	7.5	7.1	6.7	7.9	7.5	7.1	6.7
1.50	10.5	10.1	9.7	9.3	10.5	10.1	9.7	9.3
1.83	12.9	12.5	12.1	11.7	12.9	12.5	12.1	11.7
2.12	15.0	14.6	14.2	13.8	15.0	14.6	14.2	13.8
2.38	16.8	16.4	16.0	15.6	16.8	16.4	16.0	15.6
2.60	18.4	18.0	17.6	17.2	18.4	18.0	17.6	17.2
2.77	19.7	19.3	18.9	18.5	19.7	19.3	18.9	18.5
2.90	20.6	20.2	19.8	19.4	20.6	20.2	19.8	19.4
2.97	21.1	20.7	20.3	19.9	21.1	20.7	20.3	19.9
3.00	21.3	20.9	20.5	20.1	21.3	20.9	20.5	20.1

Note: Stabilizers are ⅛" undergage

FBH BUILD RATE

Hole Size	SLICK				STABILIZED			
	5-⅞ (149mm)	6 (152mm)	6-⅛ (156mm)	6-¼ (159mm)	5-⅞ (149mm)	6 (152mm)	6-⅛ (156mm)	6-¼ (159mm)
BEND ANGLE	Degrees per 100 Feet (30m)				Degrees per 100 Feet (30m)			
1.25	8.5	8.0	7.6	7.1	8.5	8.0	7.6	7.1
1.50	10.3	9.8	9.4	8.9	10.3	9.8	9.4	8.9
1.75	12.1	11.7	11.2	10.7	12.1	11.7	11.2	10.7
2.00	13.9	13.5	13.0	12.5	13.9	13.5	13.0	12.5
2.25	15.8	15.3	14.8	14.3	15.8	15.3	14.8	14.3
2.50	17.6	17.1	16.6	16.1	17.6	17.1	16.6	16.1

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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