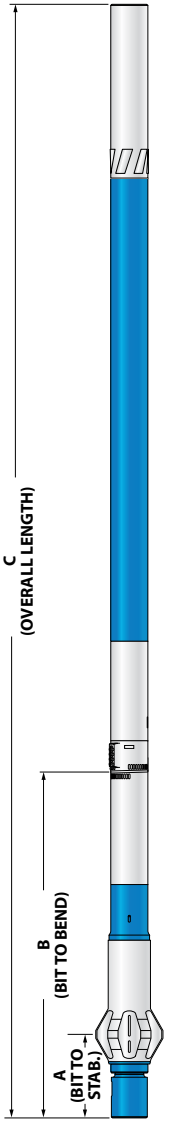
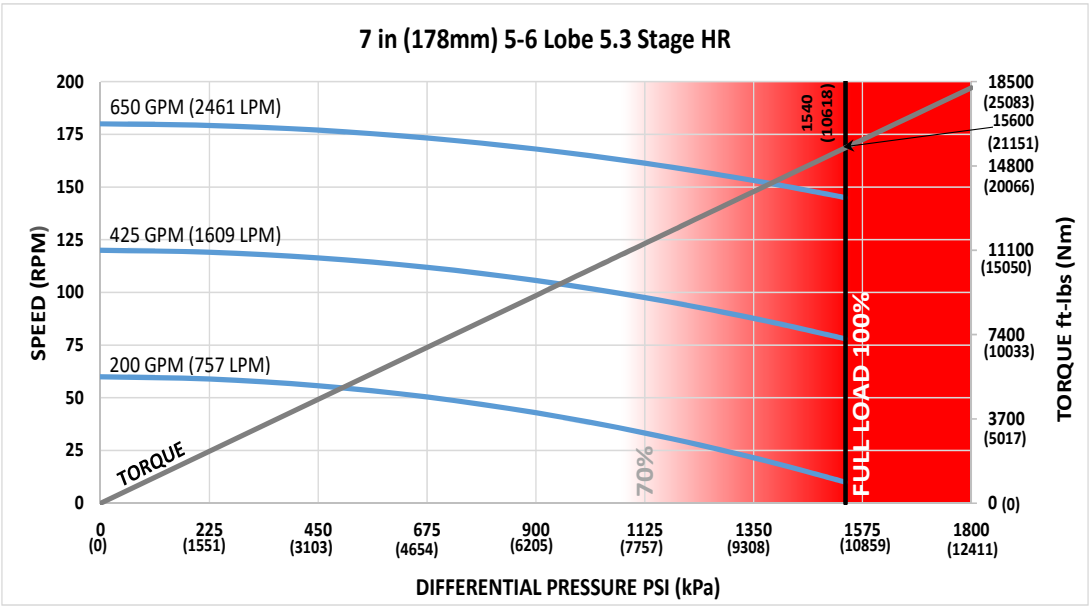
7 in (178 mm) 5-6 Lobe 5.3 Stage HR SERIES 3



Bit Size Range	8-½ - 9-⅞ in	216 - 251 mm
Bit Box Connection	4-½ REGULAR	
Dynamic Bearing Load On/Off Bottom	151925 lbf	67600 daN
Static Bearing Load On/Off Bottom	509765 lbf	226800 daN
Max. Overpull (For Re-run)	509765 lbf	226800 daN
Absolute Overpull	742200 lbf	330100 daN
Adjustable Makeup Torque	32000 ft-lbs	43400 Nm
Stab/Thread Protector Makeup Torque	15000 ft-lbs	20300 Nm
A = Bit to Stabilizer (Centre)	16 in	406 mm
B = Bit to Bend **Adjustable**	68 in	1727 mm
B = Bit to Bend **Fixed**	56 in	1422 mm
C = Overall (With Dump Sub)	366.8 in	9317 mm
Weight	2231 lbs	1012 kg

Lobe Configuration	5-6 Lobe 5.3 Stage HR	
Displacement (No Load)	0.304 rev/gal	0.08 rev/l
Max. Differential (Full Load)	1540 psi	10618 kPa
Max. Torque	15600 ft-lbs	21151 Nm
Max. Power	431 HP	321 kW

Flow Rate		Speed
GPM	**LPM**	**RPM**
200	757	10 - 60
425	1609	78 - 120
650	2461	145 - 180



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

ADJUSTABLE BUILD RATE

Hole Size	SLICK			-	STABILIZED			-
	8-½ (216mm)	8-¾ (222mm)	9-⅞ (251mm)	-	8-½ (216mm)	8-¾ (222mm)	9-⅞ (251mm)	-
BEND ANGLE	Degrees per 100 Feet (30m)				Degrees per 100 Feet (30m)			
0.39	3.4	2.8	-	-	3.4	2.8	3.0	-
0.78	6.1	5.5	2.7	-	6.1	5.5	5.3	-
1.15	8.6	8.0	5.2	-	8.6	8.0	7.4	-
1.50	11.0	10.4	7.6	-	11.0	10.4	9.4	-
1.83	13.3	12.7	9.9	-	13.3	12.7	11.3	-
2.12	15.3	14.7	11.9	-	15.3	14.7	13.0	-
2.38	17.1	16.5	13.7	-	17.1	16.5	14.5	-
2.60	18.6	18.0	15.2	-	18.6	18.0	15.8	-
2.77	19.8	19.1	16.3	-	19.8	19.1	16.8	-
2.90	20.7	20.0	17.2	-	20.7	20.0	17.5	-
2.97	21.1	20.5	17.7	-	21.1	20.5	17.9	-
3.00	21.4	20.7	17.9	-	21.4	20.7	18.1	-

Note: Stabilizers are ⅛" undergage

FBH BUILD RATE

Hole Size	SLICK			-	STABILIZED			-
	8-½ (216mm)	8-¾ (222mm)	9-⅞ (251mm)	-	8-½ (216mm)	8-¾ (222mm)	9-⅞ (251mm)	-
BEND ANGLE	Degrees per 100 Feet (30m)				Degrees per 100 Feet (30m)			
1.25	6.5	5.7	2.4	-	7.5	7.6	8.3	-
1.50	8.2	7.5	4.1	-	9.0	9.1	9.8	-
1.75	9.9	9.2	5.9	-	10.5	10.6	11.3	-
2.00	11.6	10.9	7.6	-	12.0	12.1	12.8	-
2.25	13.3	12.6	9.3	-	13.5	13.6	14.3	-
2.50	15.1	14.3	11.0	-	15.1	15.2	15.8	-

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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