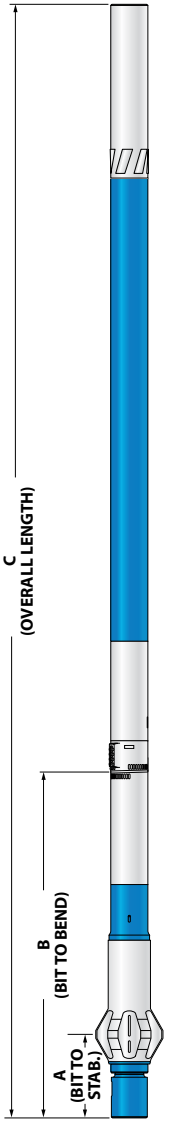
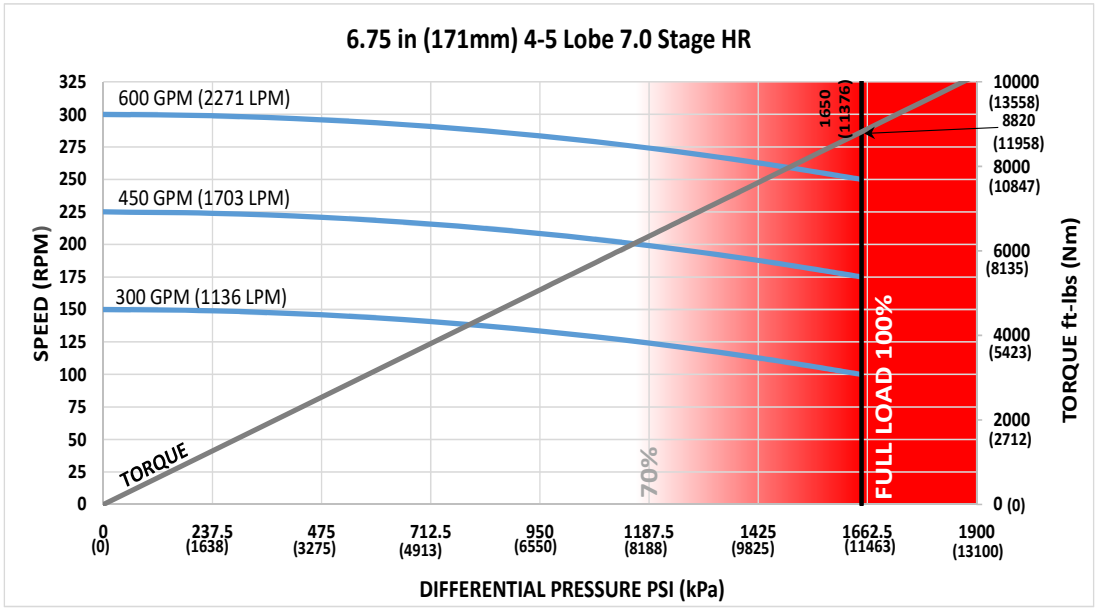
7 in (178 mm) Bottom w/ 6-3/4 (171 mm) 4-5 Lobe 7.0 Stage HR SERIES 3



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
	Fixed	56 in	1422 mm
C = Overall (With Dump Sub)		341 in	8661 mm
Weight		2142 lbs	972 kg

Lobe Configuration	4-5 Lobe 7 Stage HR	
Displacement (No Load)	0.49 rev/gal	0.13 rev/l
Max. Differential (Full Load)	1650 psi	11376 kPa
Max. Torque	8820 ft-lbs	11958 Nm
Max. Power	420 HP	313 kW

Flow Rate		**Speed**
GPM	**LPM**	**RPM**
300	1136	100 - 150
450	1703	175 - 225
600	2271	250 - 300



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	3.8	3.1	0.1	-	3.8	3.1	3.4	-
0.78	6.7	6.0	3.0	-	6.7	6.0	5.8	-
1.15	9.4	8.8	5.7	-	9.4	8.8	8.0	-
1.50	12.0	11.4	8.3	-	12.0	11.4	10.2	-
1.83	14.5	13.8	10.8	-	14.5	13.8	12.2	-
2.12	16.6	16.0	12.9	-	16.6	16.0	14.0	-
2.38	18.6	17.9	14.9	-	18.6	17.9	15.6	-
2.60	20.2	19.5	16.5	-	20.2	19.5	16.9	-
2.77	21.5	20.8	17.8	-	21.5	20.8	18.0	-
2.90	22.4	21.8	18.7	-	22.4	21.8	18.8	-
2.97	22.9	22.3	19.2	-	22.9	22.3	19.2	-
3.00	23.2	22.5	19.5	-	23.2	22.5	19.5	-

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	7.0	6.2	2.7	-	8.0	8.2	9.0	-
1.50	8.9	8.1	4.5	-	9.6	9.8	10.6	-
1.75	10.7	10.0	6.4	-	11.3	11.4	12.2	-
2.00	12.6	11.8	8.2	-	12.9	13.0	13.8	-
2.25	14.5	13.7	10.1	-	14.5	14.6	15.5	-
2.50	16.3	15.5	12.0	-	16.3	16.3	17.1	-

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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