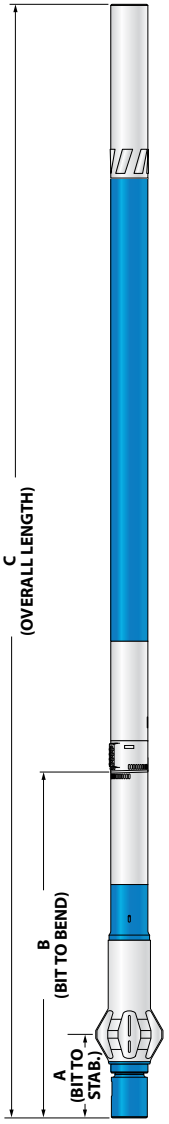
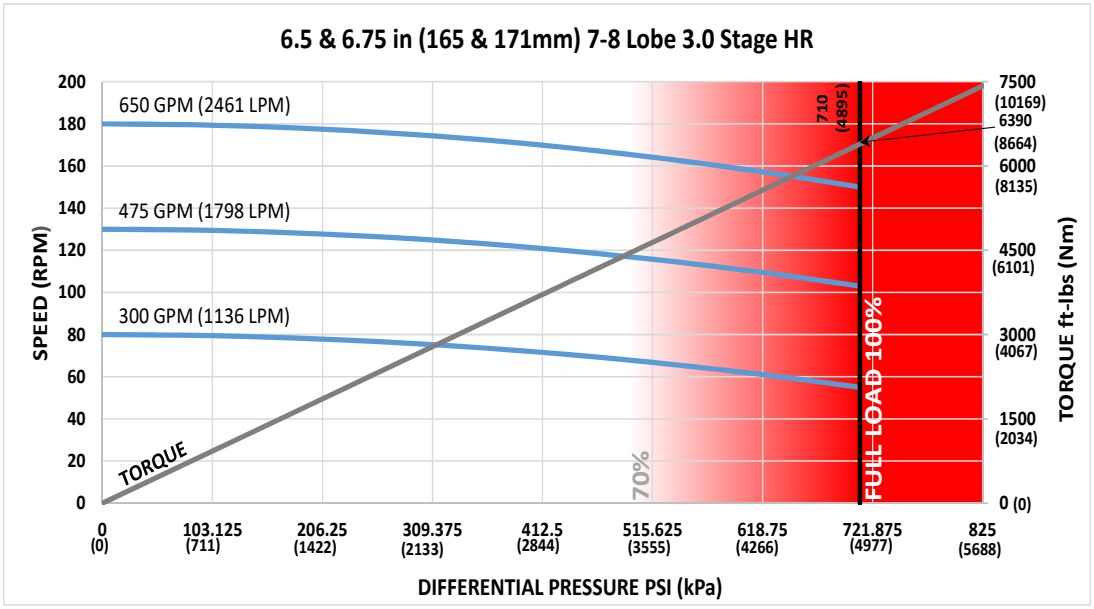
6-1/2 & 6-3/4 in (165 & 171 mm) 7-8 Lobe 3.0 Stage HR SERIES 3



Bit Size Range		7-⅞ - 9-⅞ in	200 - 251 mm
Bit Box Connection		4-½ REGULAR	
Dynamic Bearing Load On/Off Bottom		131700 lbf	58600 daN
Static Bearing Load On/Off Bottom		420400 lbf	187000 daN
Max. Overpull (For Re-run)		328000 lbf	145900 daN
Absolute Overpull		546000 lbf	242900 daN
Adjustable Makeup Torque		25000 ft-lbs	33900 Nm
Stab/Thread Protector Makeup Torque		12000 ft-lbs	16300 Nm
A = Bit to Stabilizer (Centre)		16.45 in	418 mm
B = Bit to Bend	**Adjustable**	67.87 in	1724 mm
	Fixed	52.97 in	1345 mm
C = Overall (With Dump Sub)		247.7 in	6292 mm
Weight		1937 lbs	879 kg

Lobe Configuration	7-8 Lobe 3 Stage HR	
Displacement (No Load)	0.27 rev/gal	0.07 rev/l
Max. Differential (Full Load)	710 psi	4895 kPa
Max. Torque	6390 ft-lbs	8664 Nm
Max. Power	183 HP	136 kW

Flow Rate		**Speed**
GPM	**LPM**	**RPM**
300	1136	55 - 80
475	1798	103 - 130
650	2461	150 - 180



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

ADJUSTABLE BUILD RATE

Hole Size	SLICK				STABILIZED			
	7-⅞ (200mm)	8-½ (216mm)	8-¾ (222mm)	9-⅞ (251mm)	7-⅞ (200mm)	8-½ (216mm)	8-¾ (222mm)	9-⅞ (251mm)
BEND ANGLE	Degrees per 100 Feet (30m)				Degrees per 100 Feet (30m)			
0.39	0.8	-	-	-	3.2	4.1	4.5	-
0.78	4.8	2.4	1.4	-	6.3	7.2	7.6	9.3
1.15	8.7	6.2	5.2	0.8	9.3	10.2	10.6	12.2
1.50	12.4	9.9	8.9	4.5	12.4	13.0	13.3	15.0
1.83	15.8	13.3	12.4	7.9	15.8	15.6	16.0	17.6
2.12	18.8	16.4	15.4	11.0	18.8	17.9	18.3	19.9
2.38	21.6	19.1	18.1	13.7	21.6	20.0	20.3	22.0
2.60	23.9	21.4	20.4	16.0	23.9	21.7	22.1	23.7
2.77	25.6	23.2	22.2	17.8	25.6	23.2	23.4	25.1
2.90	27.0	24.5	23.5	19.1	27.0	24.5	24.5	26.1
2.97	27.7	25.3	24.3	19.8	27.7	25.3	25.0	26.7
3.00	28.0	25.6	24.6	20.2	28.0	25.6	25.2	26.9

Note: Stabilizers are ⅛" undergage

FBH BUILD RATE

Hole Size	SLICK				STABILIZED			
	7-⅞ (200mm)	8-½ (216mm)	8-¾ (222mm)	9-⅞ (251mm)	7-⅞ (200mm)	8-½ (216mm)	8-¾ (222mm)	9-⅞ (251mm)
BEND ANGLE	Degrees per 100 Feet (30m)				Degrees per 100 Feet (30m)			
1.25	9.0	6.1	4.9	-	10.8	11.8	12.1	13.8
1.50	11.6	8.7	7.5	2.3	13.0	13.9	14.3	15.9
1.75	14.2	11.3	10.2	4.9	15.1	16.0	16.4	18.1
2.00	16.9	13.9	12.8	7.5	17.2	18.2	18.5	20.2
2.25	19.5	16.6	15.4	10.1	19.5	20.3	20.7	22.3
2.50	22.1	19.2	18.0	12.7	22.1	22.5	22.8	24.5

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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7501 42 Street, Leduc, AB T9E 0R8 || Tel: 780.986.3070 || Fax: 780.986.3536

www.DYNOMAXDrillingTools.com **sales@DYNOMAXDrillingTools.com**