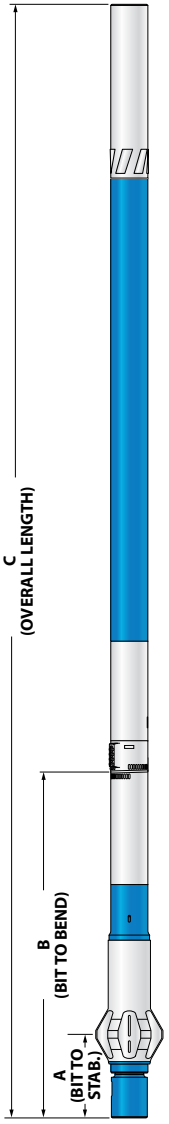
DYNOMAX DRILLING TOOLS INC

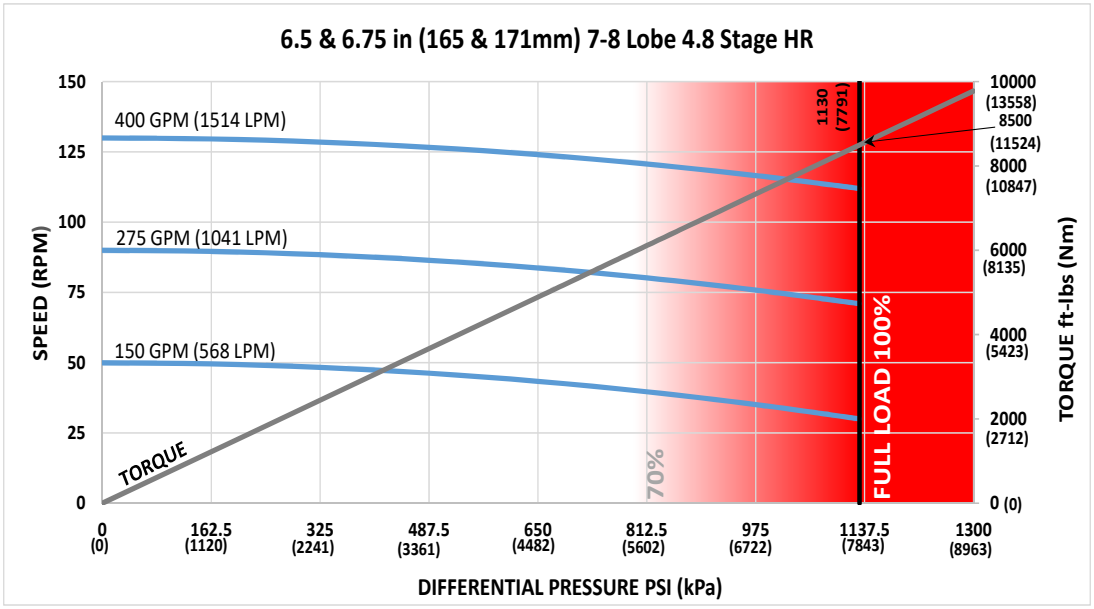
6-1/2 & 6-3/4 in (165 & 171 mm) 7-8 Lobe 4.8 Stage HR SERIES 3



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)		326.2 in	8285 mm
Weight		2435 lbs	1104 kg

Lobe Configuration	7-8 Lobe 4.8 Stage HR	
Displacement (No Load)	0.33 rev/gal	0.09 rev/l
Max. Differential (Full Load)	1130 psi	7791 kPa
Max. Torque	8500 ft-lbs	11524 Nm
Max. Power	181 HP	135 kW

Flow Rate		Speed
GPM	**LPM**	**RPM**
150	568	30 - 50
275	1041	71 - 90
400	1514	112 - 130



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	0.5	-	-	-	2.3	2.8	3.0	-
0.78	3.5	1.7	0.9	-	4.8	5.3	5.5	6.4
1.15	6.4	4.6	3.8	0.5	7.2	7.7	7.9	8.8
1.50	9.1	7.3	6.5	3.2	9.4	9.9	10.1	11.0
1.83	11.7	9.9	9.1	5.8	11.7	12.1	12.3	13.2
2.12	13.9	12.1	11.4	8.1	13.9	13.9	14.1	15.0
2.38	16.0	14.1	13.4	10.1	16.0	15.6	15.8	16.7
2.60	17.7	15.8	15.1	11.8	17.7	17.0	17.2	18.1
2.77	19.0	17.2	16.4	13.1	19.0	18.1	18.3	19.2
2.90	20.0	18.2	17.5	14.2	20.0	19.0	19.2	20.1
2.97	20.6	18.7	18.0	14.7	20.6	19.4	19.6	20.5
3.00	20.8	19.0	18.2	14.9	20.8	19.6	19.8	20.7

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	6.6	4.5	3.6	-	8.3	8.7	8.9	9.8
1.50	8.6	6.4	5.5	1.6	9.9	10.4	10.6	11.5
1.75	10.5	8.4	7.5	3.6	11.6	12.1	12.3	13.2
2.00	12.5	10.3	9.4	5.5	13.3	13.8	14.0	14.9
2.25	14.4	12.3	11.4	7.5	15.0	15.5	15.7	16.6
2.50	16.4	14.2	13.3	9.4	16.7	17.2	17.4	18.3

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.

March 16, 2021

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

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