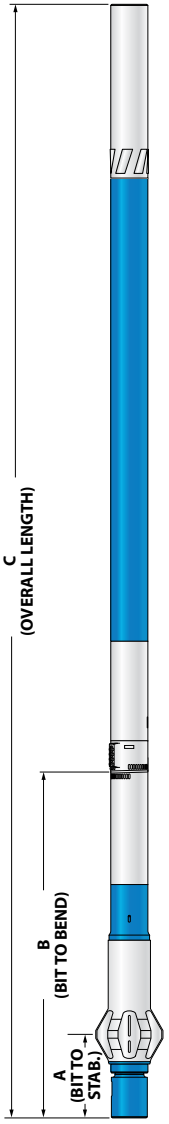
DYNOMAX DRILLING TOOLS INC

6.75 in (171mm) 4-5 Lobe 7.0 Stage HR
MUD LUBE EXT

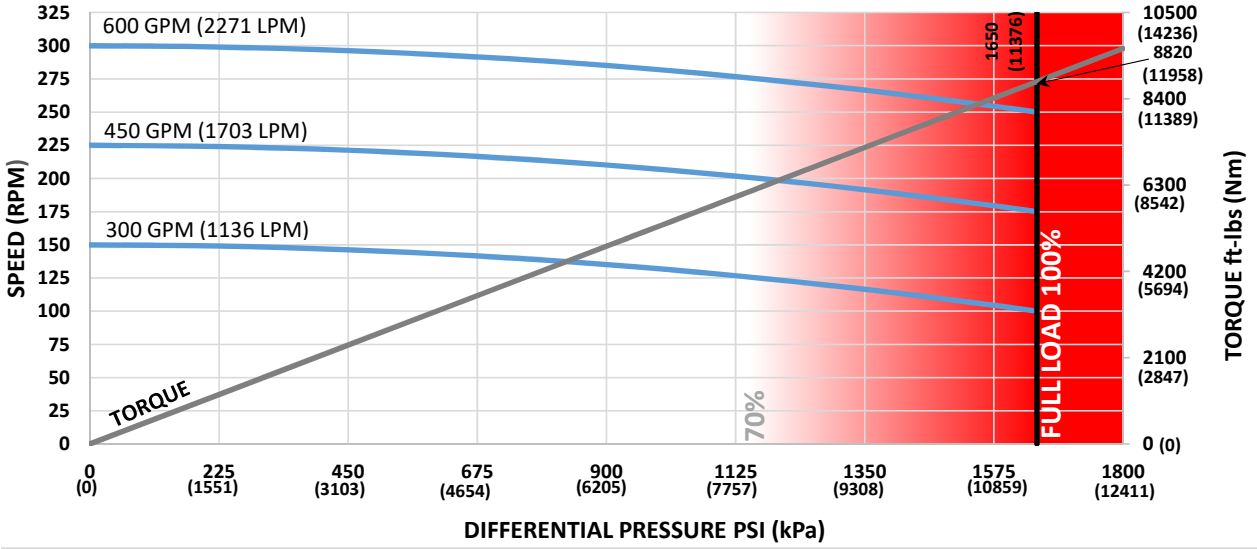


Bit Size Range		7-7/8 - 9-7/8 in	200 - 251 mm
Bit Box Connection		4-1/2 REGULAR	
Dynamic Bearing Load On/Off Bottom		94460 lbf	42000 daN
Static Bearing Load On/Off Bottom		425874 lbf	189400 daN
Max. Overpull (For Re-run)		376900 lbf	167700 daN
Absolute Overpull		628200 lbf	279400 daN
Adjustable Makeup Torque		--	--
Stab/Thread Protector Makeup Torque		12000 ft-lbs	16300 Nm
A = Bit to Stabilizer (Centre)		18.33 in	0.47 m
B = Bit to Bend	**Adjustable**	--	--
	Fixed	53.8 in	1.37 m
C = Overall (With Dump Sub)		361.1 in	9.17 m
Weight		2487 lb	1128 kg

Lobe Configuration	4-5 Lobe 7.0 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

6.5 & 6.75 in (165 & 171mm) 4-5 Lobe 7.0 Stage HR



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

ADJUSTABLE BUILD RATE

Hole Size	SLICK				STABILIZED			
	7-7/8 (200mm)	8-1/2 (216mm)	8-3/4 (222mm)	9-7/8 (251mm)	7-7/8 (200mm)	8-1/2 (216mm)	8-3/4 (222mm)	9-7/8 (251mm)
BEND ANGLE	Degrees per 100 Feet (30m)				Degrees per 100 Feet (30m)			
0.39	-	-	-	-	-	-	-	-
0.78	-	-	-	-	-	-	-	-
1.15	-	-	-	-	-	-	-	-
1.50	-	-	-	-	-	-	-	-
1.83	-	-	-	-	-	-	-	-
2.12	-	-	-	-	-	-	-	-
2.38	-	-	-	-	-	-	-	-
2.60	-	-	-	-	-	-	-	-
2.77	-	-	-	-	-	-	-	-
2.90	-	-	-	-	-	-	-	-
2.97	-	-	-	-	-	-	-	-
3.00	-	-	-	-	-	-	-	-

Note: Stabilizers are 1/8" undergage

FBH BUILD RATE

Hole Size	SLICK				STABILIZED			
	7-7/8 (200mm)	8-1/2 (216mm)	8-3/4 (222mm)	9-7/8 (251mm)	7-7/8 (200mm)	8-1/2 (216mm)	8-3/4 (222mm)	9-7/8 (251mm)
BEND ANGLE	Degrees per 100 Feet (30m)				Degrees per 100 Feet (30m)			
1.25	6.0	4.0	3.3	-	7.5	7.9	8.1	8.8
1.50	7.7	5.8	5.0	1.5	9.1	9.5	9.6	10.4
1.75	9.5	7.5	6.8	3.3	10.6	11.0	11.2	11.9
2.00	11.2	9.3	8.5	5.0	12.2	12.6	12.8	13.5
2.25	13.0	11.0	10.3	6.8	13.7	14.1	14.3	15.0
2.50	14.7	12.8	12.0	8.5	15.3	15.7	15.9	16.6

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.

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

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

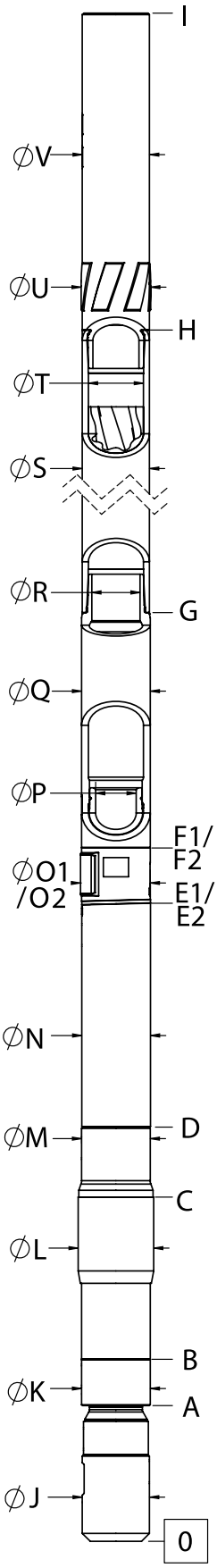
February 26, 2024

DYNOMAX DRILLING TOOLS INC

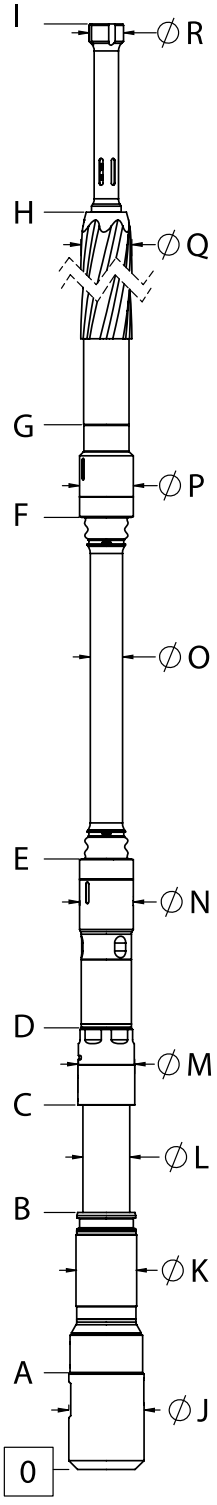
6.75 in (171mm) 4-5 Lobe 7.0 Stage HR
MUD LUBE EXT

FISHING DIMENSIONS

USC - IMPERIAL (Lengths, Diameters = in)
SI - METRIC (Lengths = m, Diameters = mm)



EXTERNALS		USC	SI
LOWER HSG FLOW REST.	A	12.8	0.33
BEARING HOUSING START	B	17.6	0.45
STABILIZER SHOULDER	C	38.6	0.98
BEARING HOUSING END	D	44.0	1.12
BIT TO BEND (ADJUSTABLE)	E1	--	--
ADAPTOR HOUSING (ADJUSTABLE)	F1	--	--
BIT TO BEND (FIXED)	E2	53.8	1.37
ADAPTOR HSG (FIXED)	F2	66.1	1.68
STATOR START	G	118.1	3.00
STATOR END	H	328.1	8.33
OVERALL LENGTH	I	361.1	9.17
BIT BOX Ø	J	6.38	162.1
LOWER HOUSING FLOW RESTRICTOR Ø	K	6.56	166.6
THREAD PROTECTOR Ø	L	7.13	181.1
BEARING HOUSING Ø	M	6.81	173.0
KICK OR FIXED HSG Ø	N	6.81	173.0
KICK PAD Ø (ADJUSTABLE)	O1	--	--
KICK PAD Ø (FIXED)	O2	7.13	181.1
ADJ MANDREL PIN Ø	P	--	--
ADAPTOR HOUSING Ø	Q	6.81	173.0
ADAPTOR HOUSING PIN Ø	R	4.80	121.9
STATOR TUBE OUTER Ø	S	6.75	171.5
STATOR TUBE INNER Ø	T	5.50	139.7
ROTOR CATCH SUB BLADE Ø	U	7.00	177.8
ROTOR CATCH Ø	V	6.81	173.0



INTERNALS		USC	SI
BIT BOX	A	9.0	0.23
LOWER SHAFT FLOW RESTRICTOR DIAMETER	B	22.5	0.57
COMPRESSION NUT	C	33.5	0.85
BEARING ASSEMBLY ADAPTOR	D	42.1	1.07
BAA ADAPTOR CAP	E	54.9	1.39
ROTOR ADAPTOR CAP	F	--	--
ROTOR START	G	118.1	3.00
ROTOR	H	320.6	8.14
CATCH STEM	I	338.1	8.59
BIT BOX Ø	J	6.38	162.1
FLOW RESTRICTOR Ø	K	4.88	124.0
MANDREL Ø	L	3.74	95.0
COMPRESSION NUT Ø	M	4.63	117.6
BEARING ASSEMBLY ADAPTOR Ø	N	4.86	123.4
DRIVESHAFT Ø	O	2.76	70.1
ROTOR ADAPTOR Ø	P	3.88	98.6
ROTOR MAJOR Ø	Q	4.22	107.2
ROTOR CATCH HEAD Ø	R	3.19	81.0

This information is for reference only. Assemblies are displayed in an "Adjustable Conifguration"

Rotor Catch and Rotor Catch Float Sub Lengths may vary based on configuration, and use of Dump Subs or combination Rotor Catch and Float Housings.

If any additional information is required, please contact your local DYNOMAX office.

February 26, 2024

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

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