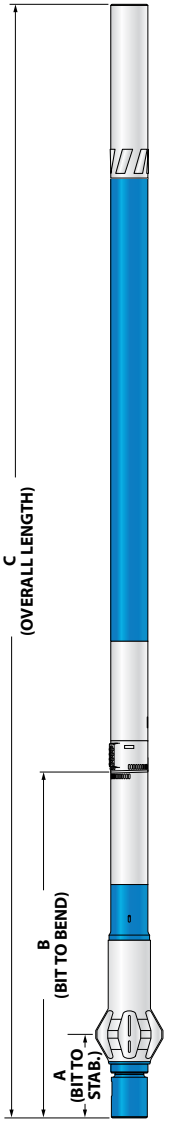
8 in (203mm) 7-8 Lobe 5.9 Stage HR MUD LUBE

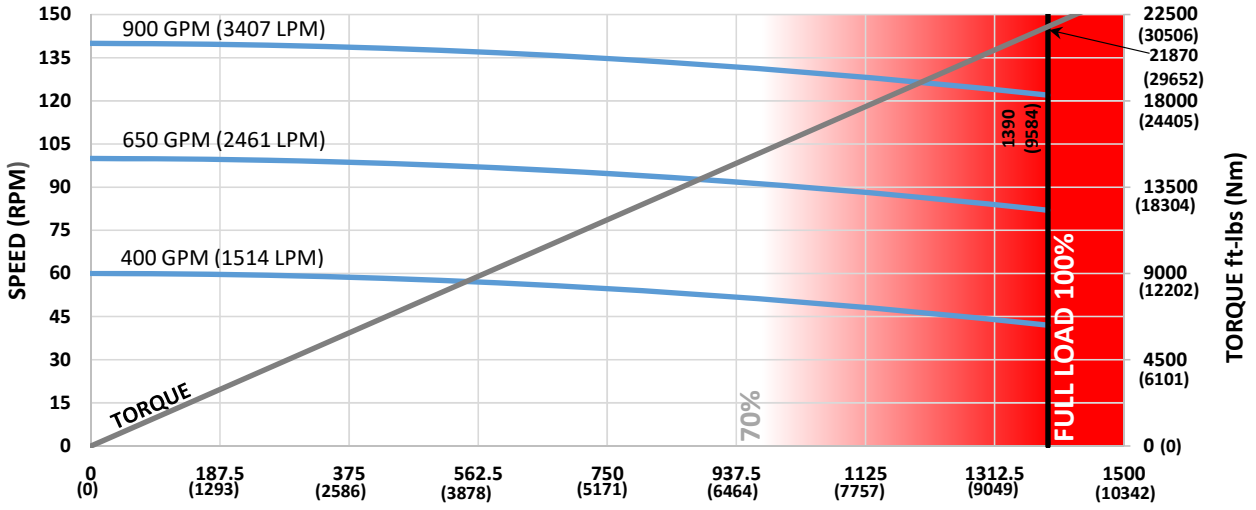


Bit Size Range		9-7/8 - 12-1/4 in	251 - 311 mm
Bit Box Connection		6-5/8 REGULAR	
Dynamic Bearing Load On/Off Bottom		145951 lbf	64900 daN
Static Bearing Load On/Off Bottom		534312 lbf	237700 daN
Max. Overpull (For Re-run)		542500 lbf	241300 daN
Absolute Overpull		904100 lbf	402200 daN
Adjustable Makeup Torque		40000 ft-lbs	54200 Nm
Stab/Thread Protector Makeup Torque		21000 ft-lbs	28500 Nm
A = Bit to Stabilizer (Centre)		23.56 in	0.6 m
B = Bit to Bend	**Adjustable**	74.9 in	1.9 m
	Fixed	60 in	1.52 m
C = Overall (With Dump Sub)		440.4 in	11.19 m
Weight		4661 lb	2114 kg

Lobe Configuration	7-8 Lobe 5.9 Stage HR	
Displacement (No Load)	0.16 rev/gal	0.04 rev/l
Max. Differential (Full Load)	1390 psi	9584 kPa
Max. Torque	21870 ft-lbs	29652 Nm
Max. Power	508 HP	379 kW

Flow Rate		Speed
GPM	**LPM**	**RPM**
400	1514	42 - 60
650	2461	82 - 100
900	3407	122 - 140

8 in (203mm) 7-8 Lobe 5.9 Stage HR



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

ADJUSTABLE BUILD RATE

Hole Size	SLICK				STABILIZED			
	9-7/8 (251mm)	10-5/8 (270mm)	11-1/2 (292mm)	12-1/4 (311mm)	9-7/8 (251mm)	10-5/8 (270mm)	11-1/2 (292mm)	12-1/4 (311mm)
BEND ANGLE	Degrees per 100 Feet (30m)				Degrees per 100 Feet (30m)			
0.39	-	-	-	-	2.0	2.3	-	-
0.78	1.7	0.3	-	-	3.9	4.3	4.6	5.0
1.15	3.8	2.4	0.8	-	5.8	6.1	6.5	6.8
1.50	5.8	4.4	2.8	1.4	7.5	7.8	8.2	8.5
1.83	7.7	6.3	4.7	3.2	9.1	9.5	9.8	10.2
2.12	9.4	8.0	6.3	4.9	10.6	10.9	11.3	11.6
2.38	10.9	9.5	7.8	6.4	11.9	12.2	12.6	12.9
2.60	12.1	10.7	9.1	7.7	13.0	13.3	13.7	14.0
2.77	13.1	11.7	10.0	8.6	13.8	14.1	14.5	14.8
2.90	13.9	12.4	10.8	9.4	14.5	14.8	15.1	15.5
2.97	14.3	12.8	11.2	9.8	14.8	15.1	15.5	15.8
3.00	14.4	13.0	11.4	9.9	15.0	15.3	15.6	16.0

Note: Stabilizers are 1/8" undergage

FBH BUILD RATE

Hole Size	SLICK				STABILIZED			
	9-7/8 (251mm)	10-5/8 (270mm)	11-1/2 (292mm)	12-1/4 (311mm)	9-7/8 (251mm)	10-5/8 (270mm)	11-1/2 (292mm)	12-1/4 (311mm)
BEND ANGLE	Degrees per 100 Feet (30m)				Degrees per 100 Feet (30m)			
1.25	3.8	2.1	0.1	-	6.5	6.9	7.2	7.6
1.50	5.2	3.5	1.5	-	7.8	8.2	8.5	8.9
1.75	6.7	5.0	3.0	1.3	9.1	9.5	9.8	10.2
2.00	8.1	6.4	4.4	2.7	10.4	10.8	11.1	11.5
2.25	9.5	7.8	5.8	4.1	11.7	12.1	12.4	12.7
2.50	11.0	9.3	7.3	5.6	13.0	13.3	13.7	14.0

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.

October 14, 2022

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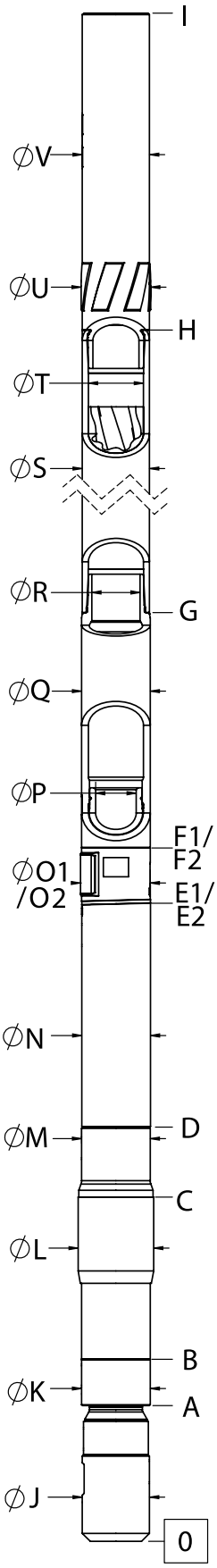
DYNOMAX DRILLING TOOLS INC

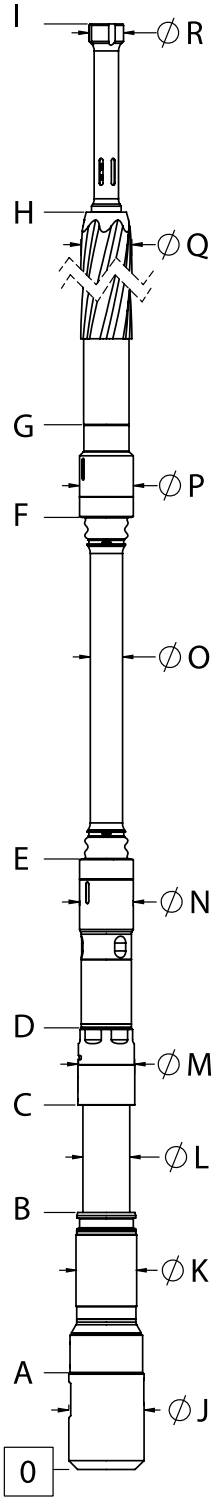
8 in (203mm) 7-8 Lobe 5.9 Stage HR MUD LUBE

FISHING DIMENSIONS

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



EXTERNALS		USC	SI
LOWER HSG FLOW REST.	A	14.6	0.37
BEARING HOUSING START	B	21.1	0.54
STABILIZER SHOULDER	C	42.1	1.07
BEARING HOUSING END	D	50.3	1.28
BIT TO BEND (ADJUSTABLE)	E1	74.9	1.90
ADAPTOR HOUSING (ADJUSTABLE)	F1	81.4	2.07
BIT TO BEND (FIXED)	E2	60.0	1.52
ADAPTOR HSG (FIXED)	F2	81.3	2.07
STATOR START	G	102.9	2.61
STATOR END	H	402.9	10.23
OVERALL LENGTH	I	440.4	11.19
BIT BOX Ø	J	8.00	203.2
LOWER HOUSING FLOW RESTRICTOR Ø	K	8.25	209.6
THREAD PROTECTOR Ø	L	9.00	228.6
BEARING HOUSING Ø	M	8.25	209.6
KICK OR FIXED HSG Ø	N	8.00	203.2
KICK PAD Ø (ADJUSTABLE)	O1	8.50	215.9
KICK PAD Ø (FIXED)	O2	8.38	212.9
ADJ MANDREL PIN Ø	P	4.81	122.2
ADAPTOR HOUSING Ø	Q	8.00	203.2
ADAPTOR HOUSING PIN Ø	R	5.65	143.5
STATOR TUBE OUTER Ø	S	8.00	203.2
STATOR TUBE INNER Ø	T	6.25	158.8
ROTOR CATCH SUB BLADE Ø	U	8.25	209.6
ROTOR CATCH Ø	V	8.00	203.2



INTERNALS		USC	SI
BIT BOX	A	9.1	0.23
LOWER SHAFT FLOW RESTRICTOR DIAMETER	B	26.5	0.67
COMPRESSION NUT	C	38.8	0.99
BEARING ASSEMBLY ADAPTOR	D	47.8	1.21
BAA ADAPTOR CAP	E	63.9	1.62
ROTOR ADAPTOR CAP	F	94.0	2.39
ROTOR START	G	102.8	2.61
ROTOR	H	387.3	9.84
CATCH STEM	I	403.3	10.24
BIT BOX Ø	J	8.00	203.2
FLOW RESTRICTOR Ø	K	6.00	152.4
MANDREL Ø	L	4.85	123.2
COMPRESSION NUT Ø	M	5.83	148.1
BEARING ASSEMBLY ADAPTOR Ø	N	5.81	147.6
DRIVESHAFT Ø	O	3.38	85.9
ROTOR ADAPTOR Ø	P	5.81	147.6
ROTOR MAJOR Ø	Q	5.19	131.7
ROTOR CATCH HEAD Ø	R	4.38	111.3

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.

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