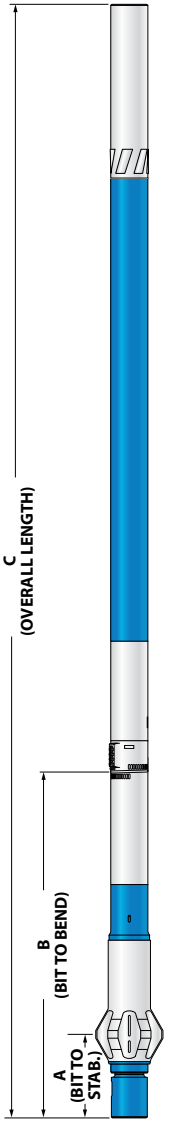
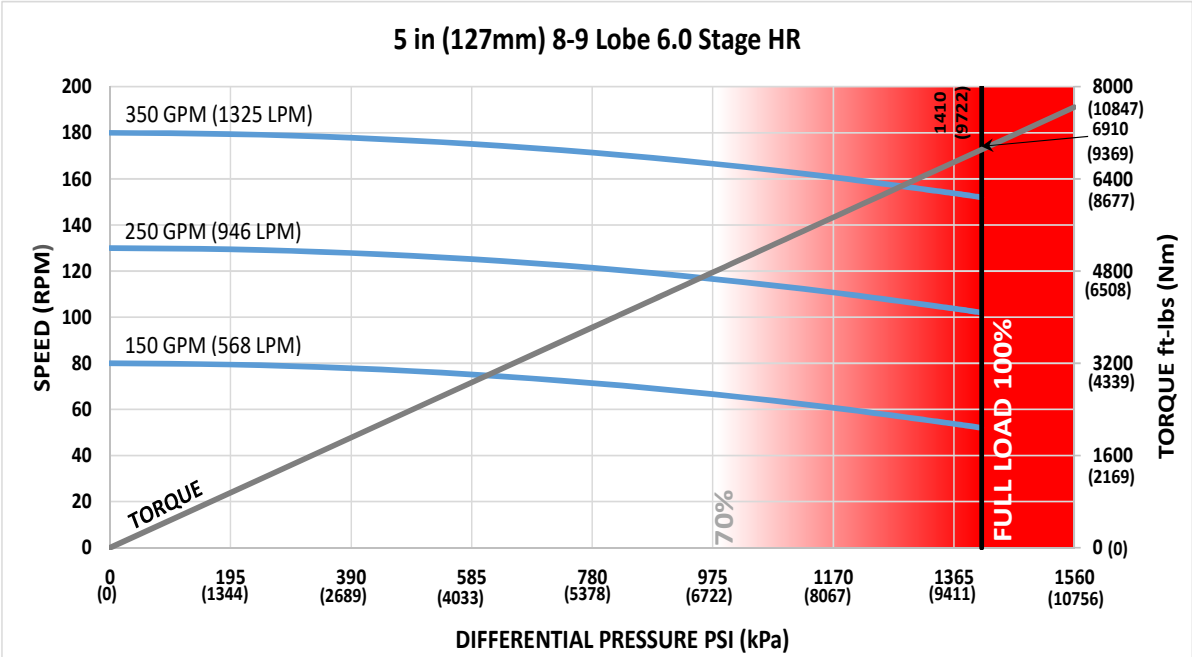
5.5 in (140mm) Bottom w/ 5 in (127mm) 8-9 Lobe 6.0 Stage HR SERIES 1



Bit Size Range		6-3/4 - 8-1/2 in	171 - 216 mm
Bit Box Connection		3-1/2 REGULAR	
Dynamic Bearing Load On/Off Bottom		82090 lbf	36500 daN
Static Bearing Load On/Off Bottom		289185 lbf	128600 daN
Max. Overpull (For Re-run)		243000 lbf	108100 daN
Absolute Overpull		405000 lbf	180200 daN
Adjustable Makeup Torque		13000 ft-lbs	17600 Nm
Stab/Thread Protector Makeup Torque		7000 ft-lbs	9500 Nm
A = Bit to Stabilizer (Centre)		15.8 in	0.4 m
B = Bit to Bend	**Adjustable**	57 in	1.45 m
	Fixed	46.6 in	1.18 m
C = Overall (With Dump Sub)		368.03 in	9.35 m
Weight		1552 lb	704 kg

Lobe Configuration	8-9 Lobe 6.0 Stage HR	
Displacement (No Load)	0.51 rev/gal	0.13 rev/l
Max. Differential (Full Load)	1410 psi	9722 kPa
Max. Torque	6910 ft-lbs	9369 Nm
Max. Power	200 HP	149 kW

Flow Rate		**Speed**
GPM	**LPM**	**RPM**
150	568	52 - 80
250	946	102 - 130
350	1325	152 - 180



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

ADJUSTABLE BUILD RATE

Hole Size	SLICK				STABILIZED			
	6-3/4 (171mm)	7-1/4 (184mm)	7-7/8 (200mm)	8-1/2 (216mm)	6-3/4 (171mm)	7-1/4 (184mm)	7-7/8 (200mm)	8-1/2 (216mm)
BEND ANGLE	Degrees per 100 Feet (30m)				Degrees per 100 Feet (30m)			
0.39	0.6	-	-	-	2.2	2.5	2.9	-
0.78	3.3	1.8	-	-	4.6	4.9	5.2	5.6
1.15	5.8	4.3	2.5	0.8	6.8	7.1	7.4	7.8
1.50	8.2	6.7	4.9	3.1	8.8	9.1	9.5	9.9
1.83	10.4	9.0	7.2	5.4	10.8	11.1	11.5	11.9
2.12	12.4	11.0	9.2	7.4	12.5	12.8	13.2	13.6
2.38	14.2	12.7	10.9	9.1	14.2	14.4	14.8	15.1
2.60	15.7	14.2	12.4	10.6	15.7	15.7	16.1	16.5
2.77	16.8	15.4	13.6	11.8	16.8	16.7	17.1	17.5
2.90	17.7	16.3	14.5	12.7	17.7	17.5	17.9	18.2
2.97	18.2	16.8	15.0	13.2	18.2	17.9	18.3	18.7
3.00	18.4	17.0	15.2	13.4	18.4	18.1	18.5	18.8

Note: Stabilizers are 1/8" undergauge

FBH BUILD RATE

Hole Size	SLICK				STABILIZED			
	6-3/4 (171mm)	7-1/4 (184mm)	7-7/8 (200mm)	8-1/2 (216mm)	6-3/4 (171mm)	7-1/4 (184mm)	7-7/8 (200mm)	8-1/2 (216mm)
BEND ANGLE	Degrees per 100 Feet (30m)				Degrees per 100 Feet (30m)			
1.25	6.0	4.3	2.2	0.1	7.6	7.9	8.3	8.7
1.50	7.7	6.0	3.9	1.8	9.2	9.5	9.9	10.2
1.75	9.4	7.7	5.6	3.5	10.7	11.0	11.4	11.8
2.00	11.1	9.4	7.3	5.2	12.3	12.6	12.9	13.3
2.25	12.8	11.1	9.0	6.9	13.8	14.1	14.5	14.9
2.50	14.5	12.8	10.7	8.6	15.3	15.6	16.0	16.4

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.

December 10, 2024

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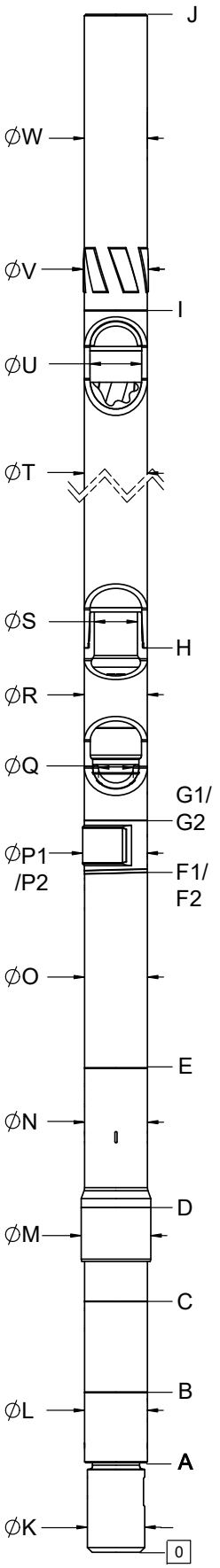
DYNOMAX DRILLING TOOLS INC

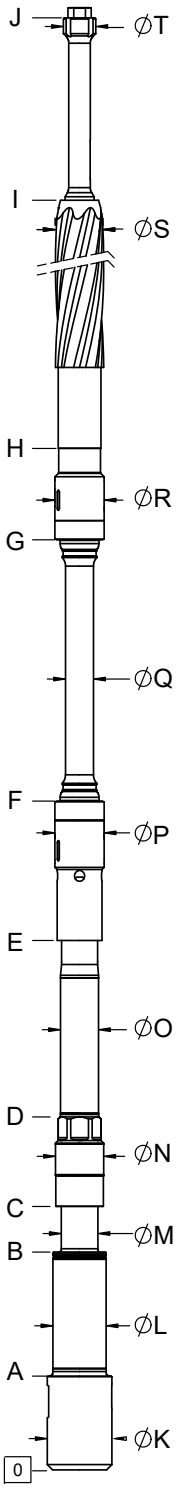
5.5 in (140mm) Bottom w/ 5 in (127mm) 8-9 Lobe 6.0 Stage HR SERIES 1

FISHING DIMENSIONS

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



EXTERNALS		USC	SI
END CAP	A	8.5	0.22
BEARING HOUSING	B	--	--
PISTON HOUSING	C	12.3	0.31
STABILIZER SHOULDER	D	25.7	0.65
KICK/FIXED HOUSING	E	37.8	0.96
BIT TO BEND (ADJUST-ABLE)	F1	57.0	1.45
ADAPTOR HOUSING (ADJUSTABLE)	G1	70.0	1.78
BIT TO BEND (FIXED)	F2	46.6	1.18
ADAPTOR HOUSING (FIXED)	G2	56.3	1.43
STATOR START	H	86.9	2.21
STATOR END	I	336.9	8.56
OVERALL LENGTH	J	368.0	9.35
BIT BOX Ø	K	4.70	119.4
END CAP/BEARING HOUSING Ø	L	5.50	139.7
THREAD PROTECTOR Ø	M	6.00	152.4
PISTON HOUSING Ø	N	5.50	139.7
KICK/FIXED HOUSING Ø	O	5.50	139.7
PAD (ADJUSTABLE) Ø	P1	5.88	149.4
PAD (FIXED) Ø	P2	5.88	149.4
ADJUSTABLE MANDREL PIN Ø	Q	3.31	84.1
ADAPTOR HOUSING Ø	R	5.50	139.7
ADAPTOR PIN Ø	S	3.35	85.1
STATOR TUBE OUTER Ø	T	5.00	127.0
STATOR TUBE INNER Ø	U	4.00	101.6
ROTOR CATCH SUB BLADE Ø	V	5.25	133.4
ROTOR CATCH SUB Ø	W	5.00	127.0



INTERNALS		USC	SI
BIT BOX	A	7.9	0.20
THRUST SHOULDER	B	16.7	0.42
WASHPIPE START	C	20.2	0.51
HEX END	D	24.5	0.62
BEARING ASSEMBLY ADAPTOR	E	36.5	0.93
BAA CAP	F	49.0	1.24
ROTOR ADAPTOR CAP	G	80.8	2.05
ROTOR START	H	86.9	2.21
ROTOR END	I	327.9	8.33
CATCH STEM	J	339.8	8.63
BIT BOX Ø	K	4.70	119.4
MANDREL Ø	L	4.13	104.9
THRUST Ø	M	3.60	91.4
WASHPIPE LARGE Ø	N	4.38	111.3
WASHPIPE SMALL Ø	O	3.50	88.9
BEARING ASSEMBLY ADAPTOR Ø	P	3.90	99.1
DRIVESHAFT Ø	Q	2.16	54.9
ROTOR ADAPTOR Ø	R	3.90	99.1
ROTOR MAJOR DIA. Ø	S	3.20	81.2
ROTOR CATCH STEM Ø	T	2.13	54.0

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

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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