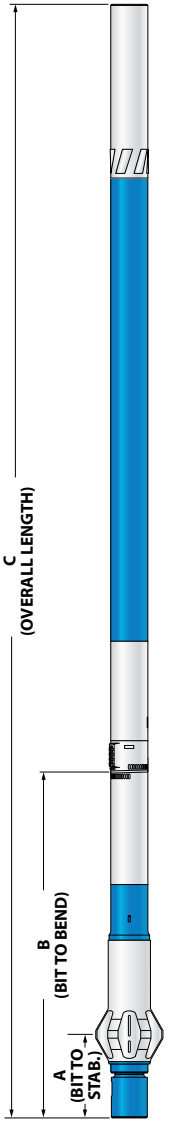
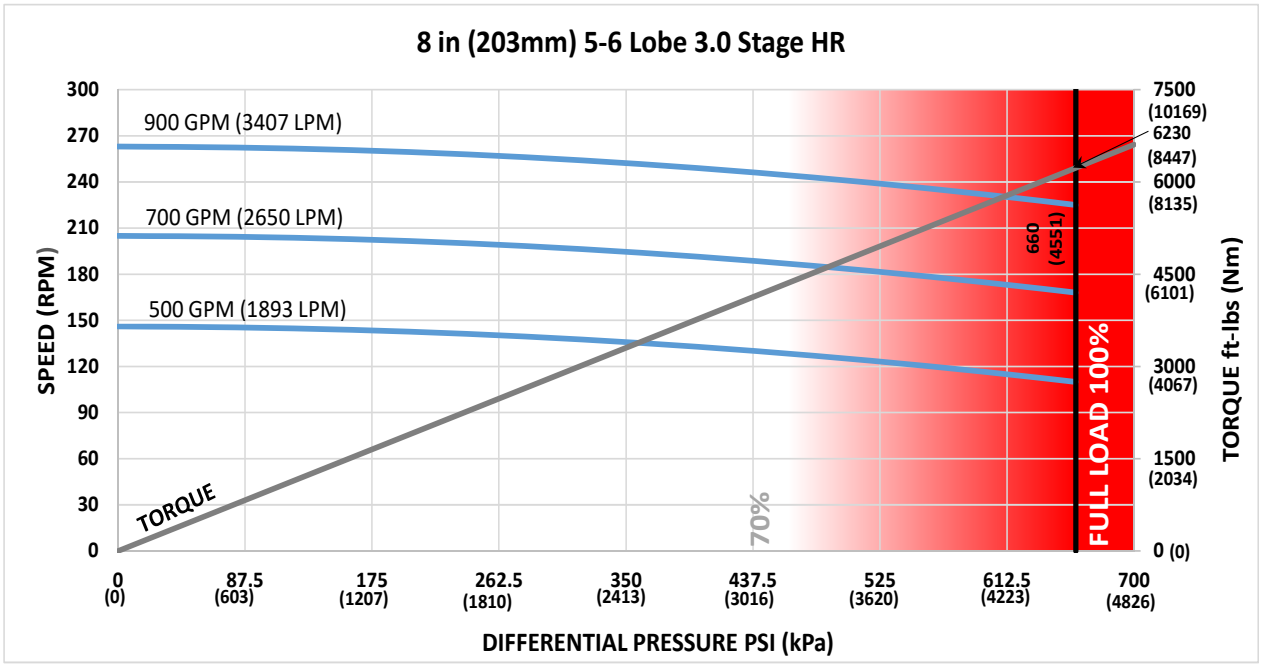
9.62 in (244mm) Bottom w/ 8 in (203mm) 5-6 Lobe 3.0 Stage HR SERIES 1



Bit Size Range		12-1/4 - 17-1/2 in	311 - 445 mm
Bit Box Connection		6-5/8 or 7-5/8 REGULAR	
Dynamic Bearing Load On/Off Bottom		240975 lbf	107200 daN
Static Bearing Load On/Off Bottom		852600 lbf	379300 daN
Max. Overpull (For Re-run)		741100 lbf	329700 daN
Absolute Overpull		1235100 lbf	549400 daN
Adjustable Makeup Torque		60000 ft-lbs	81300 Nm
Stab/Thread Protector Makeup Torque		38000 ft-lbs	51500 Nm
A = Bit to Stabilizer (Centre)		20.1 in	0.51 m
B = Bit to Bend	**Adjustable**	87.4 in	2.22 m
	Fixed	87.3 in	2.22 m
C = Overall (With Dump Sub)		268.73 in	6.83 m
Weight		3431 lb	1556 kg

Lobe Configuration	5-6 Lobe 3.0 Stage HR	
Displacement (No Load)	0.29 rev/gal	0.08 rev/l
Max. Differential (Full Load)	660 psi	4551 kPa
Max. Torque	6230 ft-lbs	8447 Nm
Max. Power	267 HP	199 kW

Flow Rate		**Speed**
GPM	**LPM**	**RPM**
500	1893	110 - 146
700	2650	168 - 205
900	3407	225 - 263



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

ADJUSTABLE BUILD RATE

Hole Size	SLICK				STABILIZED			
	12-1/4 (311mm)	14 (356mm)	16 (406mm)	17-1/2 (445mm)	12-1/4 (311mm)	14 (356mm)	16 (406mm)	17-1/2 (445mm)
BEND ANGLE	Degrees per 100 Feet (30m)				Degrees per 100 Feet (30m)			
0.39	1.5	-	-	-	6.5	8.8	11.3	13.2
0.78	5.3	0.6	-	-	9.1	11.3	13.9	15.8
1.15	8.8	4.1	-	-	11.6	13.8	16.3	18.3
1.50	12.2	7.5	2.1	-	13.9	16.1	18.6	20.6
1.83	15.4	10.7	5.3	1.3	16.0	18.3	20.8	22.7
2.12	18.1	13.5	8.1	4.1	18.1	20.2	22.7	24.6
2.38	20.6	15.9	10.6	6.6	20.6	21.9	24.4	26.4
2.60	22.7	18.1	12.7	8.7	22.7	23.3	25.9	27.8
2.77	24.4	19.7	14.3	10.3	24.4	24.5	27.0	28.9
2.90	25.6	20.9	15.6	11.6	25.6	25.3	27.9	29.8
2.97	26.3	21.6	16.3	12.2	26.3	25.8	28.3	30.3
3.00	26.6	21.9	16.5	12.5	26.6	26.0	28.5	30.5

Note: Stabilizers are 1/8" undergauge

FBH BUILD RATE

Hole Size	SLICK				STABILIZED			
	12-1/4 (311mm)	14 (356mm)	16 (406mm)	17-1/2 (445mm)	12-1/4 (311mm)	14 (356mm)	16 (406mm)	17-1/2 (445mm)
BEND ANGLE	Degrees per 100 Feet (30m)				Degrees per 100 Feet (30m)			
1.25	10.6	5.9	0.5	-	12.2	14.5	17.0	18.9
1.50	13.0	8.3	2.9	-	13.9	16.1	18.7	20.6
1.75	15.4	10.7	5.3	1.3	15.5	17.7	20.3	22.2
2.00	17.8	13.1	7.7	3.7	17.8	19.4	22.0	23.9
2.25	20.2	15.5	10.1	6.1	20.2	21.0	23.6	25.5
2.50	22.6	17.9	12.5	8.5	22.6	22.7	25.3	27.2

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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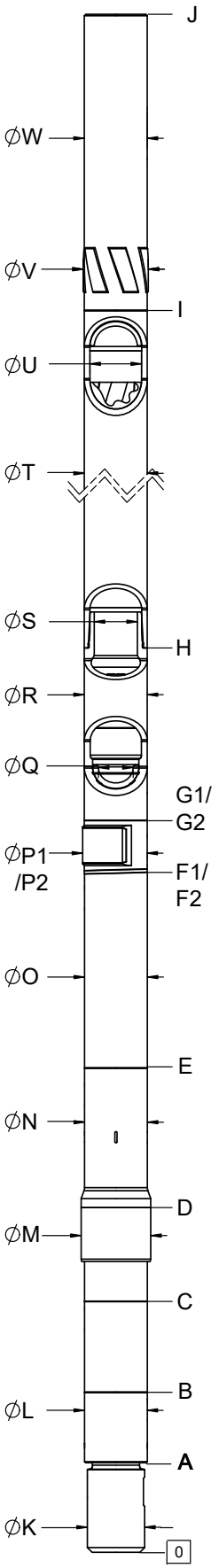
January 2, 2025

DYNOMAX DRILLING TOOLS INC

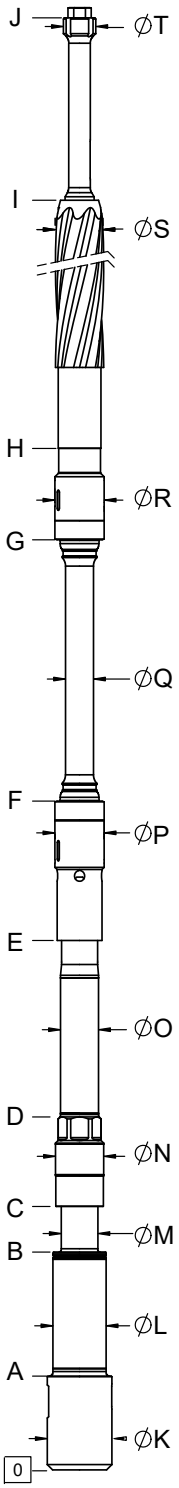
9.62 in (244mm) Bottom w/ 8 in (203mm) 5-6 Lobe 3.0 Stage HR SERIES 1

FISHING DIMENSIONS

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



EXTERNALS		USC	SI
END CAP	A	10.8	0.27
BEARING HOUSING	B	21.3	0.54
PISTON HOUSING	C	32.1	0.82
STABILIZER SHOULDER	D	44.6	1.13
KICK/FIXED HOUSING	E	59.5	1.51
BIT TO BEND (ADJUST-ABLE)	F1	87.4	2.22
ADAPTOR HOUSING (ADJUSTABLE)	G1	95.5	2.43
BIT TO BEND (FIXED)	F2	87.3	2.22
ADAPTOR HOUSING (FIXED)	G2	95.4	2.42
STATOR START	H	119.6	3.04
STATOR END	I	231.2	5.87
OVERALL LENGTH	J	268.7	6.83
BIT BOX Ø	K	9.00	228.6
END CAP/BEARING HOUSING Ø	L	9.62	244.3
THREAD PROTECTOR Ø	M	10.75	273.1
PISTON HOUSING Ø	N	9.62	244.3
KICK/FIXED HOUSING Ø	O	9.62	244.3
PAD (ADJUSTABLE) Ø	P1	10.13	257.3
PAD (FIXED) Ø	P2	10.13	257.3
ADJUSTABLE MANDREL PIN Ø	Q	5.60	142.2
ADAPTOR HOUSING Ø	R	9.62	244.3
ADAPTOR PIN Ø	S	5.65	143.5
STATOR TUBE OUTER Ø	T	8.00	203.2
STATOR TUBE INNER Ø	U	6.20	157.5
ROTOR CATCH SUB BLADE Ø	V	8.25	209.6
ROTOR CATCH SUB Ø	W	8.00	203.2



INTERNALS		USC	SI
BIT BOX	A	10.0	0.25
THRUST SHOULDER	B	25.1	0.64
WASHPIPE START	C	30.8	0.78
HEX END	D	39.7	1.01
BEARING ASSEMBLY ADAPTOR	E	57.3	1.46
BAA CAP	F	75.8	1.93
ROTOR ADAPTOR CAP	G	109.3	2.78
ROTOR START	H	119.1	3.03
ROTOR END	I	224.1	5.69
CATCH STEM	J	240.1	6.10
BIT BOX Ø	K	9.00	228.6
MANDREL Ø	L	7.75	196.9
THRUST Ø	M	5.53	140.5
WASHPIPE LARGE Ø	N	7.00	177.8
WASHPIPE SMALL Ø	O	5.75	146.1
BEARING ASSEMBLY ADAPTOR Ø	P	7.10	180.3
DRIVESHAFT Ø	Q	3.89	98.8
ROTOR ADAPTOR Ø	R	7.10	180.3
ROTOR MAJOR DIA. Ø	S	4.87	123.7
ROTOR CATCH STEM Ø	T	4.38	111.3

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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