

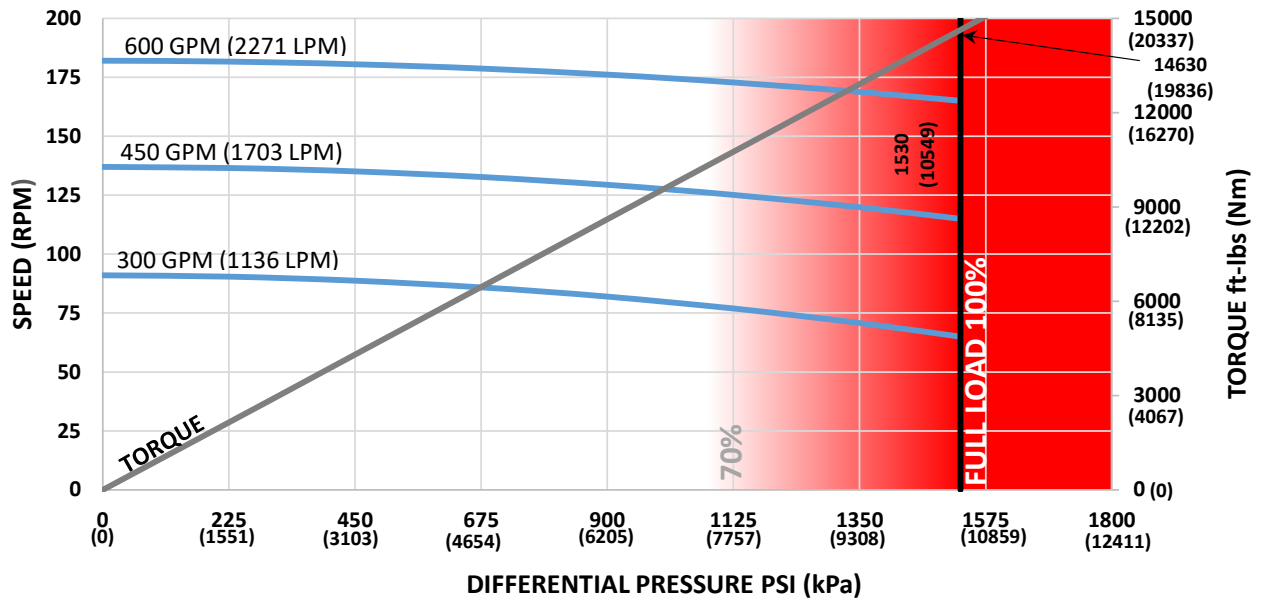


<b>Bit Size Range</b>	8-1/2 - 9-7/8 in	216 - 251 mm
<b>Bit Box Connection</b>	4-1/2 REGULAR	
<b>Dynamic Bearing Load On/Off Bottom</b>	100357 lbf	44600 daN
<b>Static Bearing Load On/Off Bottom</b>	355612 lbf	158200 daN
<b>Max. Overpull (For Re-run)</b>	432800 lbf	192500 daN
<b>Absolute Overpull</b>	721400 lbf	320900 daN
<b>Adjustable Makeup Torque</b>	25000 ft-lbs	33900 Nm
<b>Stab/Thread Protector Makeup Torque</b>	12000 ft-lbs	16300 Nm
<b>A = Bit to Stabilizer (Centre)</b>	20.36 in	0.52 m
<b>B = Bit to Bend</b>	Adjustable: 65.8 in Fixed: 54.6 in	1.67 m 1.39 m
<b>C = Overall (With Dump Sub)</b>	374.8 in	9.52 m
<b>Weight</b>	2668 lb	1210 kg

<b>Lobe Configuration</b>	7-8 Lobe 6.8 Stage HR	
<b>Displacement (No Load)</b>	0.304 rev/gal	0.08 rev/l
<b>Max. Differential (Full Load)</b>	1530 psi	10549 kPa
<b>Max. Torque</b>	14630 ft-lbs	19836 Nm
<b>Max. Power</b>	460 HP	343 kW

Flow Rate		Speed
GPM	LPM	RPM
300	1136	65 - 91.2
450	1703	115 - 137
600	2271	165 - 182

## 7 in (178mm) 7-8 Lobe 6.8 Stage HR



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

### ADJUSTABLE BUILD RATE

Hole Size	SLICK				STABILIZED			
	8-1/2 (216mm)	8-3/4 (222mm)	9-7/8 (251mm)	9-7/8 (251mm)	8-1/2 (216mm)	8-3/4 (222mm)	9-7/8 (251mm)	9-7/8 (251mm)
<b>BEND ANGLE</b>	Degrees per 100 Feet (30m)				Degrees per 100 Feet (30m)			
0.39	0.9	0.2	-	-	2.3	2.5	3.1	3.1
0.78	3.5	2.9	-	-	4.6	4.7	5.4	5.4
1.15	6.0	5.3	2.5	2.5	6.7	6.8	7.5	7.5
1.50	8.3	7.7	4.9	4.9	8.7	8.9	9.5	9.5
1.83	10.5	9.9	7.1	7.1	10.6	10.8	11.5	11.5
2.12	12.5	11.9	9.0	9.0	12.5	12.5	13.1	13.1
2.38	14.2	13.6	10.8	10.8	14.2	14.0	14.6	14.6
2.60	15.7	15.1	12.3	12.3	15.7	15.2	15.9	15.9
2.77	16.9	16.2	13.4	13.4	16.9	16.2	16.9	16.9
2.90	17.7	17.1	14.3	14.3	17.7	17.1	17.6	17.6
2.97	18.2	17.6	14.8	14.8	18.2	17.6	18.0	18.0
3.00	18.4	17.8	15.0	15.0	18.4	17.8	18.2	18.2

Note: Stabilizers are 1/8" undergauge

### FBH BUILD RATE

Hole Size	SLICK				STABILIZED			
	8-1/2 (216mm)	8-3/4 (222mm)	9-7/8 (251mm)	9-7/8 (251mm)	8-1/2 (216mm)	8-3/4 (222mm)	9-7/8 (251mm)	9-7/8 (251mm)
<b>BEND ANGLE</b>	Degrees per 100 Feet (30m)				Degrees per 100 Feet (30m)			
1.25	6.3	5.5	2.2	2.2	7.6	7.7	8.4	8.4
1.50	7.9	7.2	3.9	3.9	9.1	9.2	9.9	9.9
1.75	9.6	8.9	5.6	5.6	10.6	10.7	11.4	11.4
2.00	11.3	10.6	7.3	7.3	12.1	12.2	12.9	12.9
2.25	13.0	12.2	8.9	8.9	13.6	13.7	14.4	14.4
2.50	14.7	13.9	10.6	10.6	15.1	15.2	15.9	15.9

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.

**FISHING DIMENSIONS**

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



EXTERNALS		USC	SI
LOWER HSG FLOW REST.	A	14.2	0.36
BEARING HOUSING START	B	19.0	0.48
STABILIZER SHOULDER	C	35.9	0.91
BEARING HOUSING END	D	43.2	1.10
BIT TO BEND (ADJUSTABLE)	E1	65.8	1.67
ADAPTOR HOUSING (ADJUSTABLE)	F1	71.3	1.81
BIT TO BEND (FIXED)	E2	54.6	1.39
ADAPTOR HSG (FIXED)	F2	64.7	1.64
STATOR START	G	95.8	2.43
STATOR END	H	341.8	8.68
OVERALL LENGTH	I	374.8	9.52
BIT BOX $\phi$	J	7.00	177.8
LOWER HOUSING FLOW RESTRICTOR $\phi$	K	7.15	181.6
THREAD PROTECTOR $\phi$	L	7.85	199.4
BEARING HOUSING $\phi$	M	7.15	181.6
KICK OR FIXED HSG $\phi$	N	7.15	181.6
KICK PAD $\phi$ (ADJUSTABLE)	O1	7.38	187.5
KICK PAD $\phi$ (FIXED)	O2	7.38	187.5
ADJ MANDREL PIN $\phi$	P	4.22	107.2
ADAPTOR HOUSING $\phi$	Q	7.15	181.6
ADAPTOR HOUSING PIN $\phi$	R	5.04	127.9
STATOR TUBE OUTER $\phi$	S	7.00	177.8
STATOR TUBE INNER $\phi$	T	5.75	146.1
ROTOR CATCH SUB BLADE $\phi$	U	7.25	184.2
ROTOR CATCH $\phi$	V	7.00	177.8



INTERNALS		USC	SI
BIT BOX	A	9.0	0.23
LOWER SHAFT FLOW RESTRICTOR DIAMETER	B	23.9	0.61
COMPRESSION NUT	C	33.9	0.86
BEARING ASSEMBLY ADAPTOR	D	41.1	1.04
BAA ADAPTOR CAP	E	56.8	1.44
ROTOR ADAPTOR CAP	F	88.6	2.25
ROTOR START	G	97.2	2.47
ROTOR	H	330.2	8.39
CATCH STEM	I	347.7	8.83
BIT BOX $\phi$	J	7.00	177.8
FLOW RESTRICTOR $\phi$	K	5.50	139.7
MANDREL $\phi$	L	4.36	110.7
COMPRESSION NUT $\phi$	M	5.30	134.6
BEARING ASSEMBLY ADAPTOR $\phi$	N	5.00	127.0
DRIVESHAFT $\phi$	O	3.00	76.2
ROTOR ADAPTOR $\phi$	P	5.00	127.0
ROTOR MAJOR $\phi$	Q	4.54	115.3
ROTOR CATCH HEAD $\phi$	R	3.19	81.0

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.