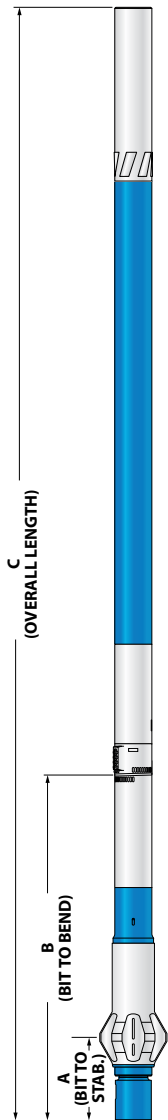


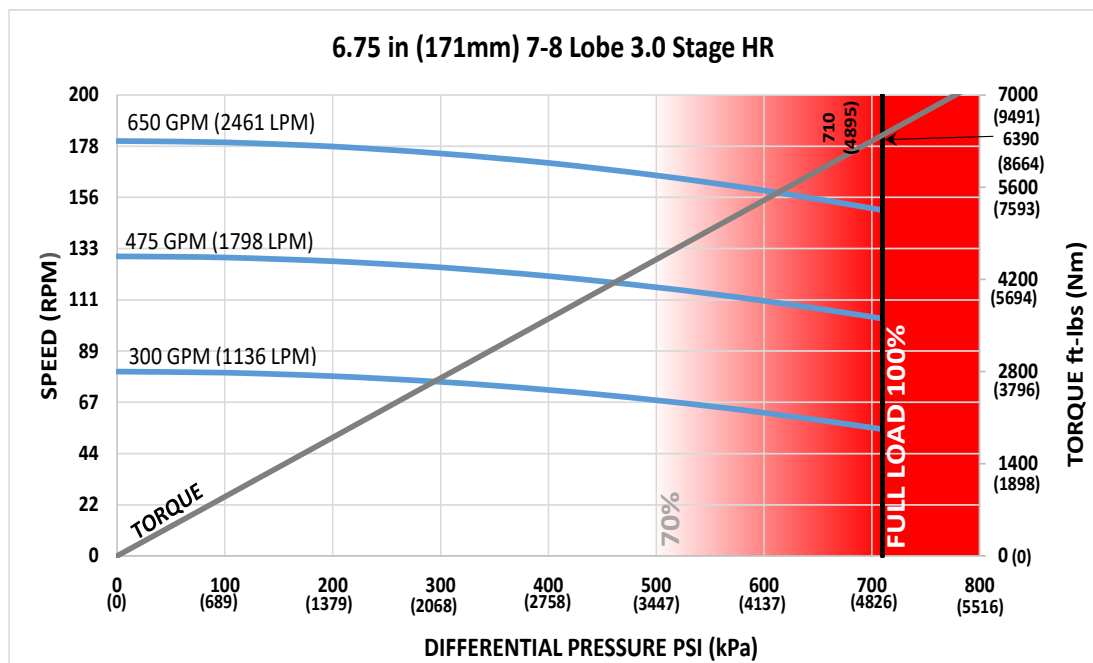
# 6.75 in (171mm) 7-8 Lobe 3.0 Stage HR **SERIES 2** **SHORT**



<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>	162100 lbf	72100 daN
<b>Static Bearing Load On/Off Bottom</b>	510500 lbf	227100 daN
<b>Max. Overpull (For Re-run)</b>	602600 lbf	268000 daN
<b>Absolute Overpull</b>	1004400 lbf	446800 daN
<b>Adjustable Makeup Torque</b>	25000 ft-lbs	33900 Nm
<b>Stab/Thread Protector Makeup Torque</b>	15000 ft-lbs	20300 Nm
<b>A = Bit to Stabilizer (Centre)</b>	17.4 in	0.44 m
<b>B = Bit to Bend</b>	<b>Adjustable</b> 66 in	1.68 m
	<b>Fixed</b> 54.1 in	1.37 m
<b>C = Overall (With Dump Sub)</b>	249.1 in	6.33 m
<b>Weight</b>	1968 lb	893 kg

<b>Lobe Configuration</b>	7-8 Lobe 3.0 Stage HR	
<b>Displacement (No Load)</b>	0.27 rev/gal	0.07 rev/l
<b>Max. Differential (Full Load)</b>	710 psi	4895 kPa
<b>Max. Torque</b>	6390 ft-lbs	8664 Nm
<b>Max. Power</b>	183 HP	136 kW

Flow Rate		Speed
GPM	LPM	RPM
300	1136	55 - 80
475	1798	103 - 130
650	2461	150 - 180



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)			
<b>0.39</b>	0.5	-	-	-	3.8	4.2	5.8	5.8
<b>0.78</b>	4.5	3.5	-	-	6.9	7.2	8.9	8.9
<b>1.15</b>	8.3	7.4	3.0	3.0	9.8	10.2	11.8	11.8
<b>1.50</b>	12.0	11.0	6.7	6.7	12.6	12.9	14.6	14.6
<b>1.83</b>	15.4	14.4	10.1	10.1	15.4	15.5	17.2	17.2
<b>2.12</b>	18.4	17.5	13.1	13.1	18.4	17.8	19.5	19.5
<b>2.38</b>	21.1	20.2	15.8	15.8	21.1	20.2	21.5	21.5
<b>2.60</b>	23.4	22.4	18.1	18.1	23.4	22.4	23.3	23.3
<b>2.77</b>	25.2	24.2	19.9	19.9	25.2	24.2	24.6	24.6
<b>2.90</b>	26.5	25.6	21.2	21.2	26.5	25.6	25.6	25.6
<b>2.97</b>	27.3	26.3	21.9	21.9	27.3	26.3	26.2	26.2
<b>3.00</b>	27.6	26.6	22.3	22.3	27.6	26.6	26.4	26.4

Note: Stabilizers are 1/8" undergauge

### FBH BUILD RATE

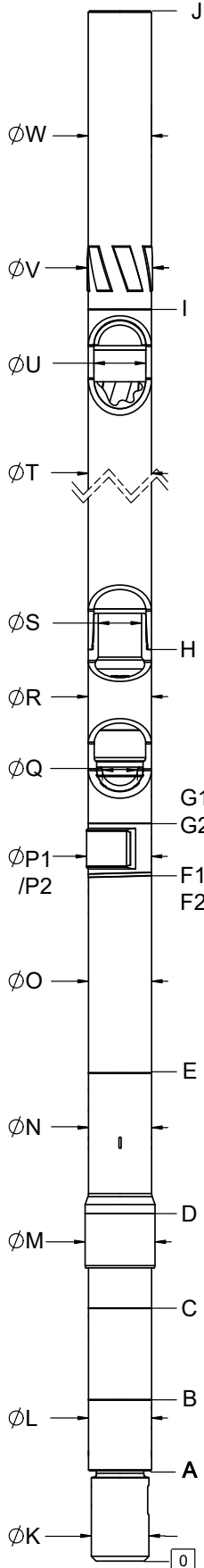
Hole Size	SLICK				STABILIZED			
	8-1/2 (216mm)	8-3/4 (222mm)	9-7/8 (251mm)	9-7/8 (251mm)	8-1/2 (216mm)	8-3/4 (222mm)	9-7/8 (251mm)	9-7/8 (251mm)
<b>BEND ANGLE</b>	Degrees per 100 Feet (30m)				Degrees per 100 Feet (30m)			
<b>1.25</b>	8.5	7.4	2.3	2.3	11.3	11.7	13.4	13.4
<b>1.50</b>	11.1	10.0	4.9	4.9	13.5	13.8	15.5	15.5
<b>1.75</b>	13.7	12.6	7.5	7.5	15.6	16.0	17.6	17.6
<b>2.00</b>	16.3	15.2	10.1	10.1	17.7	18.1	19.7	19.7
<b>2.25</b>	18.9	17.8	12.7	12.7	19.8	20.2	21.9	21.9
<b>2.50</b>	21.5	20.4	15.2	15.2	22.0	22.3	24.0	24.0

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.

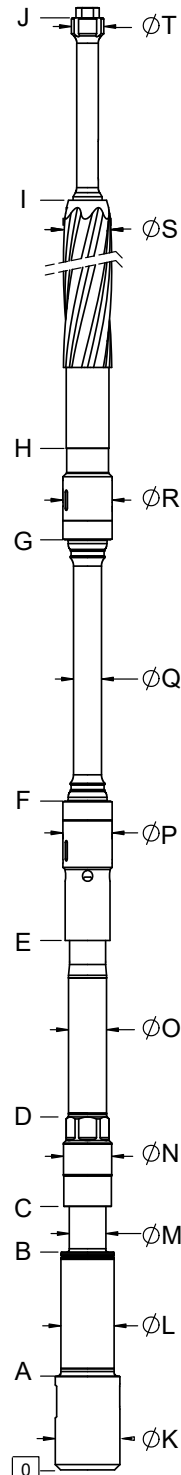
For custom motor configurations and build rates, please contact your DYNOMAX office.

**FISHING DIMENSIONS**

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



EXTERNALS		USC	SI
END CAP	A	10.0	0.25
BEARING HOUSING	B	14.6	0.37
PISTON HOUSING	C	24.2	0.61
STABILIZER SHOULDER	D	34.7	0.88
KICK/FIXED HOUSING	E	44.3	1.13
BIT TO BEND (ADJUSTABLE)	F1	66.0	1.68
ADAPTOR HOUSING (ADJUSTABLE)	G1	71.9	1.83
BIT TO BEND (FIXED)	F2	54.1	1.37
ADAPTOR HOUSING (FIXED)	G2	17.2	0.44
STATOR START	H	91.1	2.31
STATOR END	I	216.1	5.49
OVERALL LENGTH	J	249.1	6.33
BIT BOX Ø	K	6.38	162.1
END CAP/BEARING HOUSING Ø	L	7.00	177.8
THREAD PROTECTOR Ø	M	7.75	196.9
PISTON HOUSING Ø	N	7.00	177.8
KICK/FIXED HOUSING Ø	O	7.00	177.8
PAD (ADJUSTABLE) Ø	P1	7.38	187.5
PAD (FIXED) Ø	P2	7.30	185.4
ADJUSTABLE MANDREL PIN Ø	Q	3.88	98.6
ADAPTOR HOUSING Ø	R	7.00	177.8
ADAPTOR PIN Ø	S	4.80	121.9
STATOR TUBE OUTER Ø	T	6.75	171.5
STATOR TUBE INNER Ø	U	5.50	139.7
ROTOR CATCH SUB BLADE Ø	V	7.00	177.8
ROTOR CATCH SUB Ø	W	6.81	173.0



INTERNALS		USC	SI
BIT BOX	A	9.3	0.24
THRUST SHOULDER	B	18.3	0.46
WASHPIPE START	C	22.8	0.58
HEX END	D	31.0	0.79
BEARING ASSEMBLY ADAPTOR	E	42.6	1.08
BAA CAP	F	56.4	1.43
ROTOR ADAPTOR CAP	G	82.2	2.09
ROTOR START	H	91.2	2.32
ROTOR END	I	209.7	5.33
CATCH STEM	J	227.2	5.77
BIT BOX Ø	K	6.38	162.1
MANDREL Ø	L	5.25	133.4
THRUST Ø	M	3.63	92.2
WASHPIPE LARGE Ø	N	4.75	120.7
WASHPIPE SMALL Ø	O	3.75	95.3
BEARING ASSEMBLY ADAPTOR Ø	P	4.86	123.4
DRIVESHAFT Ø	Q	2.76	70.1
ROTOR ADAPTOR Ø	R	4.86	123.4
ROTOR MAJOR DIA. Ø	S	4.52	114.8
ROTOR CATCH STEM Ø	T	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.