

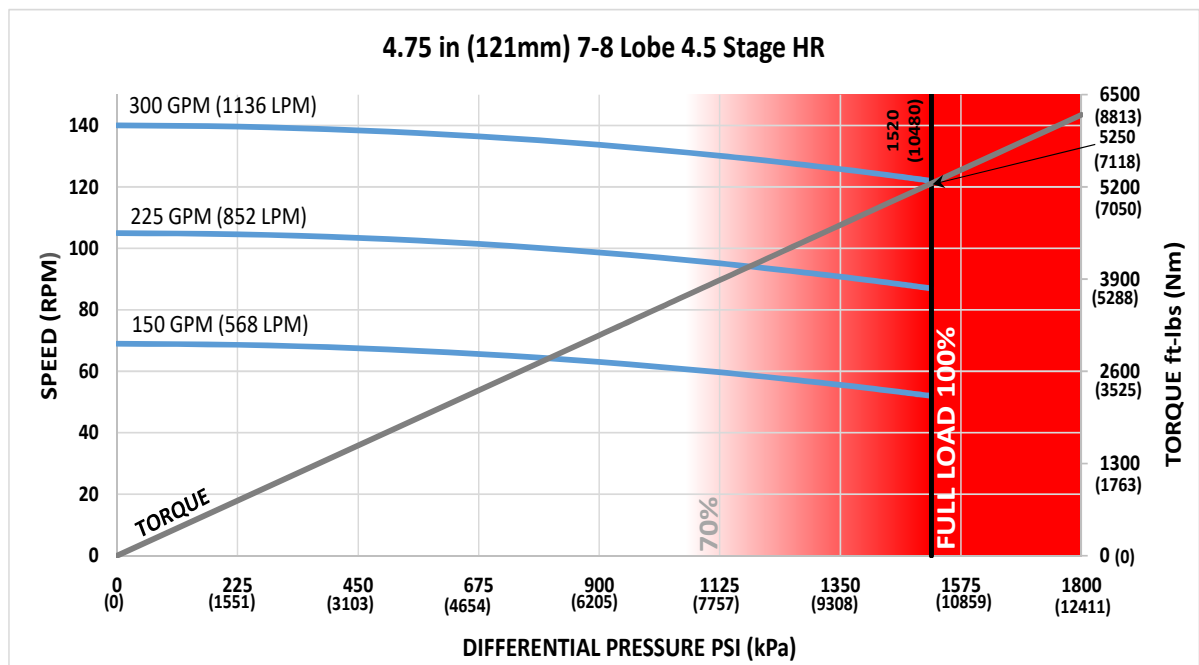
# 5 in (127mm) Bottom w/ 4.75 in (121mm) 7-8 Lobe 4.5 Stage HR **SERIES 2**



<b>Bit Size Range</b>	5-5/8 - 6-3/4 in	143 - 171 mm
<b>Bit Box Connection</b>	3-1/2 REGULAR	
<b>Dynamic Bearing Load On/Off Bottom</b>	71500 lbf	31800 daN
<b>Static Bearing Load On/Off Bottom</b>	229350 lbf	102000 daN
<b>Max. Overpull (For Re-run)</b>	328000 lbf	145900 daN
<b>Absolute Overpull</b>	546000 lbf	242900 daN
<b>Adjustable Makeup Torque</b>	12000 ft-lbs	16300 Nm
<b>Stab/Thread Protector Makeup Torque</b>	8000 ft-lbs	10800 Nm
<b>A = Bit to Stabilizer (Centre)</b>	15.7 in	0.4 m
<b>B = Bit to Bend</b>	Adjustable: 55.8 in Fixed: 45.6 in	1.42 m 1.16 m
<b>C = Overall (With Dump Sub)</b>	337.43 in	8.57 m
<b>Weight</b>	1173 lb	532 kg

<b>Lobe Configuration</b>	7-8 Lobe 4.5 Stage HR	
<b>Displacement (No Load)</b>	0.463 rev/gal	0.12 rev/l
<b>Max. Differential (Full Load)</b>	1520 psi	10480 kPa
<b>Max. Torque</b>	5250 ft-lbs	7118 Nm
<b>Max. Power</b>	122 HP	91 kW

Flow Rate		Speed
GPM	LPM	RPM
150	5568	52 - 69
225	852	87 - 105
300	1136	122 - 140



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

### ADJUSTABLE BUILD RATE

Hole Size	SLICK				STABILIZED			
	5-7/8 (149mm)	6 (152mm)	6-1/8 (156mm)	6-1/4 (159mm)	5-7/8 (149mm)	6 (152mm)	6-1/8 (156mm)	6-1/4 (159mm)
<b>BEND ANGLE</b>	Degrees per 100 Feet (30m)				Degrees per 100 Feet (30m)			
0.39	2.8	2.4	1.9	1.5	2.8	2.4	2.1	2.2
0.78	5.7	5.3	4.9	4.4	5.7	5.3	4.9	4.8
1.15	8.5	8.1	7.7	7.2	8.5	8.1	7.7	7.2
1.50	11.1	10.7	10.3	9.9	11.1	10.7	10.3	9.9
1.83	13.6	13.2	12.8	12.4	13.6	13.2	12.8	12.4
2.12	15.8	15.4	15.0	14.5	15.8	15.4	15.0	14.5
2.38	17.8	17.3	16.9	16.5	17.8	17.3	16.9	16.5
2.60	19.4	19.0	18.6	18.2	19.4	19.0	18.6	18.2
2.77	20.7	20.3	19.9	19.4	20.7	20.3	19.9	19.4
2.90	21.7	21.3	20.8	20.4	21.7	21.3	20.8	20.4
2.97	22.2	21.8	21.4	20.9	22.2	21.8	21.4	20.9
3.00	22.4	22.0	21.6	21.2	22.4	22.0	21.6	21.2

Note: Stabilizers are 1/8" undergauge

### FBH BUILD RATE

Hole Size	SLICK				STABILIZED			
	5-7/8 (149mm)	6 (152mm)	6-1/8 (156mm)	6-1/4 (159mm)	5-7/8 (149mm)	6 (152mm)	6-1/8 (156mm)	6-1/4 (159mm)
<b>BEND ANGLE</b>	Degrees per 100 Feet (30m)				Degrees per 100 Feet (30m)			
1.25	9.1	8.6	8.1	7.6	9.1	8.6	8.1	8.2
1.50	11.0	10.5	10.0	9.5	11.0	10.5	10.0	9.9
1.75	12.9	12.4	11.9	11.4	12.9	12.4	11.9	11.5
2.00	14.7	14.2	13.7	13.2	14.7	14.2	13.7	13.2
2.25	16.6	16.1	15.6	15.1	16.6	16.1	15.6	15.1
2.50	18.5	18.0	17.5	17.0	18.5	18.0	17.5	17.0

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	8.5	0.22
BEARING HOUSING	B	--	--
PISTON HOUSING	C	11.5	0.29
STABILIZER SHOULDER	D	26.2	0.67
KICK/FIXED HOUSING	E	38.6	0.98
BIT TO BEND (ADJUSTABLE)	F1	55.8	1.42
ADAPTOR HOUSING (ADJUSTABLE)	G1	60.8	1.54
BIT TO BEND (FIXED)	F2	45.6	1.16
ADAPTOR HOUSING (FIXED)	G2	52.3	1.33
STATOR START	H	77.0	1.96
STATOR END	I	306.3	7.78
OVERALL LENGTH	J	337.4	8.57
BIT BOX Ø	K	4.63	117.6
END CAP/BEARING HOUSING Ø	L	5.15	130.8
THREAD PROTECTOR Ø	M	5.75	146.1
PISTON HOUSING Ø	N	5.15	130.8
KICK/FIXED HOUSING Ø	O	5.06	128.5
PAD (ADJUSTABLE) Ø	P1	5.50	139.7
PAD (FIXED) Ø	P2	5.38	136.7
ADJUSTABLE MANDREL PIN Ø	Q	2.81	71.4
ADAPTOR HOUSING Ø	R	5.06	128.5
ADAPTOR PIN Ø	S	3.35	85.1
STATOR TUBE OUTER Ø	T	4.75	120.7
STATOR TUBE INNER Ø	U	3.75	95.3
ROTOR CATCH SUB BLADE Ø	V	5.00	127.0
ROTOR CATCH SUB Ø	W	4.75	120.7



INTERNALS		USC	SI
BIT BOX	A	8.0	0.20
THRUST SHOULDER	B	16.2	0.41
WASHPIPE START	C	20.4	0.52
HEX END	D	25.7	0.65
BEARING ASSEMBLY ADAPTOR	E	37.5	0.95
BAA CAP	F	47.9	1.22
ROTOR ADAPTOR CAP	G	70.9	1.80
ROTOR START	H	76.9	1.95
ROTOR END	I	296.9	7.54
CATCH STEM	J	308.8	7.84
BIT BOX Ø	K	4.63	117.6
MANDREL Ø	L	3.63	92.2
THRUST Ø	M	3.13	79.5
WASHPIPE LARGE Ø	N	4.00	101.6
WASHPIPE SMALL Ø	O	3.00	76.2
BEARING ASSEMBLY ADAPTOR Ø	P	3.58	90.9
DRIVESHAFT Ø	Q	1.93	49.0
ROTOR ADAPTOR Ø	R	3.60	91.4
ROTOR MAJOR DIA. Ø	S	3.09	78.5
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.