

# 5.25 in (133mm) Bottom w/ 5 in (127mm) 7-8 Lobe 3.8 Stage HR MUD LUBE

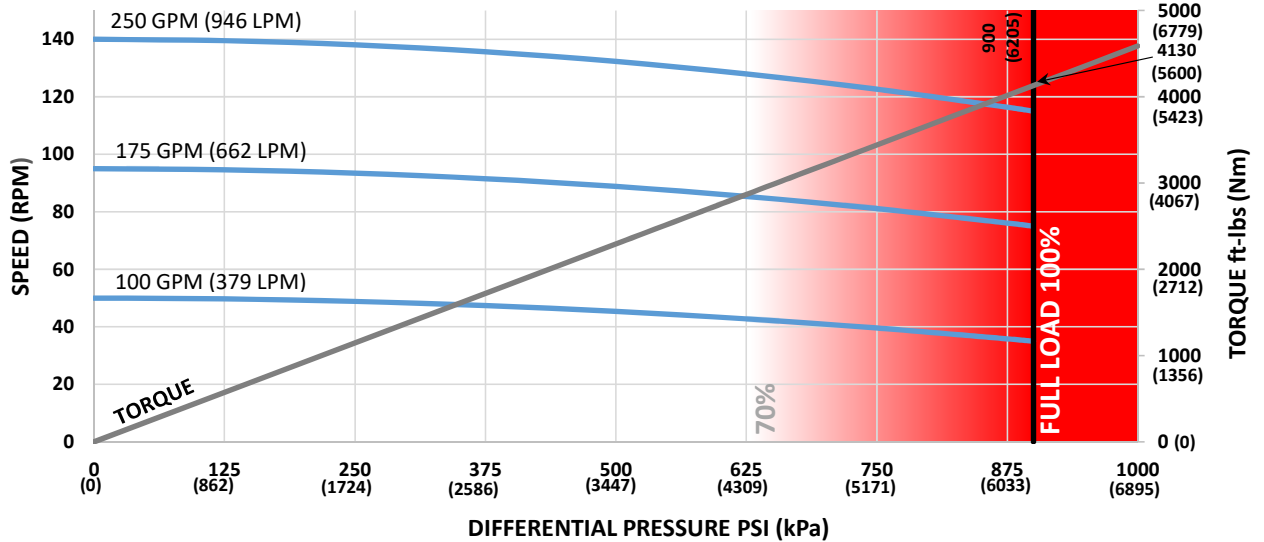


<b>Bit Size Range</b>	6-1/4 - 7-7/8 in	159 - 200 mm
<b>Bit Box Connection</b>	3-1/2 REGULAR	
<b>Dynamic Bearing Load On/Off Bottom</b>	60730 lbf	27000 daN
<b>Static Bearing Load On/Off Bottom</b>	124336 lbf	55300 daN
<b>Max. Overpull (For Re-run)</b>	231000 lbf	102800 daN
<b>Absolute Overpull</b>	462000 lbf	205500 daN
<b>Adjustable Makeup Torque</b>	13000 ft-lbs	17600 Nm
<b>Stab/Thread Protector Makeup Torque</b>	8500 ft-lbs	11500 Nm
<b>A = Bit to Stabilizer (Centre)</b>	15.74 in	0.4 m
<b>B = Bit to Bend</b>	<b>Adjustable</b> 57.5 in <b>Fixed</b> 46.6 in	1.46 m 1.18 m
<b>C = Overall (With Dump Sub)</b>	304 in	7.72 m
<b>Weight</b>	1316 lb	597 kg

<b>Lobe Configuration</b>	7-8 Lobe 3.8 Stage HR	
<b>Displacement (No Load)</b>	0.54 rev/gal	0.14 rev/l
<b>Max. Differential (Full Load)</b>	900 psi	6205 kPa
<b>Max. Torque</b>	4130 ft-lbs	5600 Nm
<b>Max. Power</b>	90 HP	67 kW

Flow Rate		Speed
GPM	LPM	RPM
100	379	35 - 50
175	662	75 - 95
250	946	115 - 140

5 in (127mm) 7-8 Lobe 3.8 Stage HR



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

ADJUSTABLE BUILD RATE

Hole Size	SLICK				STABILIZED			
	6-1/4 (159mm)	6-3/4 (171mm)	7-1/4 (184mm)	7-7/8 (200mm)	6-1/4 (159mm)	6-3/4 (171mm)	7-1/4 (184mm)	7-7/8 (200mm)
<b>BEND ANGLE</b>	Degrees per 100 Feet (30m)				Degrees per 100 Feet (30m)			
0.39	1.2	-	-	-	2.3	2.8	3.2	-
0.78	4.5	2.7	0.9	-	5.1	5.5	6.0	6.5
1.15	7.6	5.8	4.0	1.7	7.7	8.1	8.6	9.2
1.50	10.5	8.7	6.9	4.7	10.5	10.6	11.0	11.6
1.83	13.2	11.5	9.7	7.4	13.2	12.9	13.4	13.9
2.12	15.7	13.9	12.1	9.9	15.7	14.9	15.4	16.0
2.38	17.9	16.1	14.3	12.0	17.9	16.8	17.2	17.8
2.60	19.7	17.9	16.1	13.9	19.7	18.3	18.8	19.4
2.77	21.1	19.3	17.5	15.3	21.1	19.5	20.0	20.6
2.90	22.2	20.4	18.6	16.4	22.2	20.4	20.9	21.5
2.97	22.8	21.0	19.2	17.0	22.8	21.0	21.4	22.0
3.00	23.1	21.3	19.5	17.2	23.1	21.3	21.6	22.2

Note: Stabilizers are 1/8" undergauge

FBH BUILD RATE

Hole Size	SLICK				STABILIZED			
	6-1/4 (159mm)	6-3/4 (171mm)	7-1/4 (184mm)	7-7/8 (200mm)	6-1/4 (159mm)	6-3/4 (171mm)	7-1/4 (184mm)	7-7/8 (200mm)
<b>BEND ANGLE</b>	Degrees per 100 Feet (30m)				Degrees per 100 Feet (30m)			
1.25	7.9	5.8	3.6	0.9	8.8	9.3	9.7	10.3
1.50	10.0	7.9	5.7	3.0	10.6	11.1	11.6	12.1
1.75	12.1	9.9	7.8	5.1	12.5	13.0	13.4	14.0
2.00	14.2	12.0	9.9	7.2	14.3	14.8	15.3	15.8
2.25	16.3	14.1	12.0	9.3	16.3	16.6	17.1	17.7
2.50	18.4	16.2	14.1	11.4	18.4	18.5	19.0	19.5

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	12.3	0.31
BEARING HOUSING START	B	16.0	0.41
STABILIZER SHOULDER	C	27.0	0.69
BEARING HOUSING END	D	37.8	0.96
BIT TO BEND (ADJUSTABLE)	E1	57.5	1.46
ADAPTOR HOUSING (ADJUSTABLE)	F1	62.0	1.57
BIT TO BEND (FIXED)	E2	46.6	1.18
ADAPTOR HSG (FIXED)	F2	55.9	1.42
STATOR START	G	85.9	2.18
STATOR END	H	272.9	6.93
OVERALL LENGTH	I	304.0	7.72
BIT BOX $\phi$	J	5.15	130.8
LOWER HOUSING FLOW RESTRICTOR $\phi$	K	5.25	133.4
THREAD PROTECTOR $\phi$	L	6.00	152.4
BEARING HOUSING $\phi$	M	5.25	133.4
KICK OR FIXED HSG $\phi$	N	5.25	133.4
KICK PAD $\phi$ (ADJUSTABLE)	O1	5.57	141.5
KICK PAD $\phi$ (FIXED)	O2	5.57	141.5
ADJ MANDREL PIN $\phi$	P	3.15	80.0
ADAPTOR HOUSING $\phi$	Q	5.25	133.4
ADAPTOR HOUSING PIN $\phi$	R	3.35	85.1
STATOR TUBE OUTER $\phi$	S	5.00	127.0
STATOR TUBE INNER $\phi$	T	3.75	95.3
ROTOR CATCH SUB BLADE $\phi$	U	5.25	133.4
ROTOR CATCH $\phi$	V	5.00	127.0



INTERNALS		USC	SI
BIT BOX	A	9.0	0.23
LOWER SHAFT FLOW RESTRICTOR DIAMETER	B	20.1	0.51
COMPRESSION NUT	C	28.6	0.73
BEARING ASSEMBLY ADAPTOR	D	35.9	0.91
BAA ADAPTOR CAP	E	48.3	1.23
ROTOR ADAPTOR CAP	F	79.9	2.03
ROTOR START	G	86.0	2.18
ROTOR	H	264.0	6.71
CATCH STEM	I	275.9	7.01
BIT BOX $\phi$	J	5.15	130.8
FLOW RESTRICTOR $\phi$	K	3.95	100.3
MANDREL $\phi$	L	3.22	81.8
COMPRESSION NUT $\phi$	M	3.89	98.8
BEARING ASSEMBLY ADAPTOR $\phi$	N	4.05	102.9
DRIVESHAFT $\phi$	O	2.16	54.9
ROTOR ADAPTOR $\phi$	P	3.90	99.1
ROTOR MAJOR $\phi$	Q	2.95	74.8
ROTOR CATCH HEAD $\phi$	R	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.