

5.25 in (133mm) Bottom w/ 5 in (127mm) 7-8 Lobe 3.1 Stage HR MUD LUBE

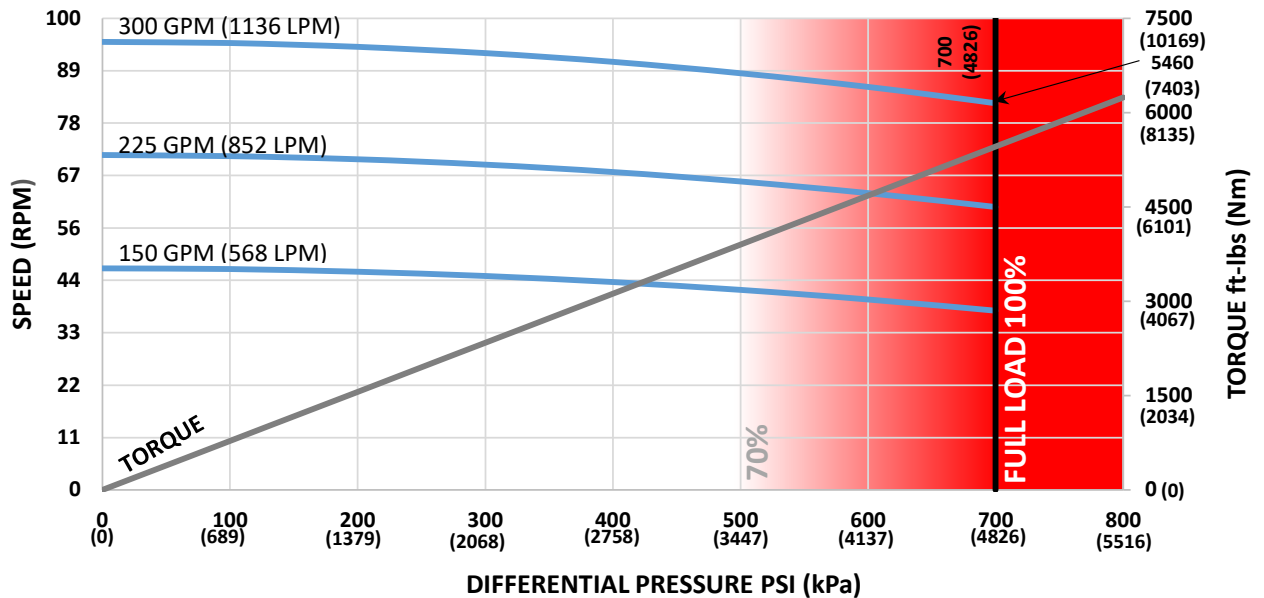


Bit Size Range	6-1/4 - 7-7/8 in	159 - 200 mm
Bit Box Connection	3-1/2 REGULAR	
Dynamic Bearing Load On/Off Bottom	60730 lbf	27000 daN
Static Bearing Load On/Off Bottom	124336 lbf	55300 daN
Max. Overpull (For Re-run)	231000 lbf	102800 daN
Absolute Overpull	462000 lbf	205500 daN
Adjustable Makeup Torque	13000 ft-lbs	17600 Nm
Stab/Thread Protector Makeup Torque	8500 ft-lbs	11500 Nm
A = Bit to Stabilizer (Centre)	15.74 in	0.4 m
B = Bit to Bend	Adjustable 57.5 in	1.46 m
	Fixed 46.6 in	1.18 m
C = Overall (With Dump Sub)	355 in	9.02 m
Weight	1526 lb	692 kg

Lobe Configuration	7-8 Lobe 3.1 Stage HR	
Displacement (No Load)	0.316 rev/gal	0.08 rev/l
Max. Differential (Full Load)	700 psi	4826 kPa
Max. Torque	5460 ft-lbs	7403 Nm
Max. Power	85 HP	64 kW

Flow Rate		Speed
GPM	LPM	RPM
150	568	38 - 47
225	852	60 - 71
300	1136	82 - 95

5 in (127mm) 7-8 Lobe 3.1 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)
BEND ANGLE	Degrees per 100 Feet (30m)				Degrees per 100 Feet (30m)			
0.39	0.9	-	-	-	1.9	2.2	2.6	-
0.78	3.7	2.2	0.7	-	4.3	4.7	5.0	5.4
1.15	6.4	4.8	3.3	1.4	6.6	6.9	7.3	7.7
1.50	8.8	7.3	5.8	3.9	8.8	9.1	9.4	9.8
1.83	11.2	9.7	8.1	6.2	11.2	11.1	11.4	11.9
2.12	13.3	11.7	10.2	8.3	13.3	12.9	13.2	13.6
2.38	15.1	13.6	12.1	10.2	15.1	14.5	14.8	15.2
2.60	16.7	15.1	13.6	11.7	16.7	15.9	16.2	16.6
2.77	17.9	16.4	14.8	12.9	17.9	16.9	17.2	17.6
2.90	18.8	17.3	15.8	13.9	18.8	17.7	18.0	18.4
2.97	19.3	17.8	16.3	14.4	19.3	18.1	18.5	18.9
3.00	19.5	18.0	16.5	14.6	19.5	18.3	18.7	19.1

Note: Stabilizers are 1/8" undergauge

FBH BUILD RATE

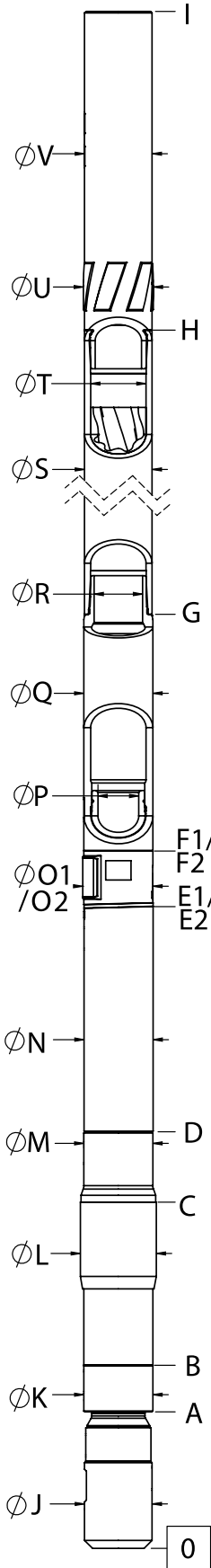
Hole Size	SLICK				STABILIZED			
	6-1/4 (159mm)	6-3/4 (171mm)	7-1/4 (184mm)	7-7/8 (200mm)	6-1/4 (159mm)	6-3/4 (171mm)	7-1/4 (184mm)	7-7/8 (200mm)
BEND ANGLE	Degrees per 100 Feet (30m)				Degrees per 100 Feet (30m)			
1.25	6.7	4.8	3.0	0.8	7.5	7.9	8.2	8.6
1.50	8.4	6.6	4.8	2.5	9.1	9.5	9.8	10.2
1.75	10.2	8.4	6.6	4.3	10.7	11.1	11.4	11.8
2.00	12.0	10.2	8.4	6.1	12.3	12.7	13.0	13.4
2.25	13.8	12.0	10.1	7.9	13.9	14.3	14.6	15.0
2.50	15.5	13.7	11.9	9.6	15.5	15.9	16.2	16.6

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	323.9	8.23
OVERALL LENGTH	I	355.0	9.02
BIT BOX Ø	J	5.15	130.8
LOWER HOUSING FLOW RESTRICTOR Ø	K	5.25	133.4
THREAD PROTECTOR Ø	L	6.00	152.4
BEARING HOUSING Ø	M	5.25	133.4
KICK OR FIXED HSG Ø	N	5.25	133.4
KICK PAD Ø (ADJUSTABLE)	O1	5.57	141.5
KICK PAD Ø (FIXED)	O2	5.57	141.5
ADJ MANDREL PIN Ø	P	3.15	80.0
ADAPTOR HOUSING Ø	Q	5.25	133.4
ADAPTOR HOUSING PIN Ø	R	3.35	85.1
STATOR TUBE OUTER Ø	S	5.00	127.0
STATOR TUBE INNER Ø	T	3.75	95.3
ROTOR CATCH SUB BLADE Ø	U	5.25	133.4
ROTOR CATCH Ø	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	315.0	8.00
CATCH STEM	I	326.9	8.30
BIT BOX Ø	J	5.15	130.8
FLOW RESTRICTOR Ø	K	3.95	100.3
MANDREL Ø	L	3.22	81.8
COMPRESSION NUT Ø	M	3.89	98.8
BEARING ASSEMBLY ADAPTOR Ø	N	4.05	102.9
DRIVESHAFT Ø	O	2.16	54.9
ROTOR ADAPTOR Ø	P	3.90	99.1
ROTOR MAJOR Ø	Q	3.10	78.6
ROTOR CATCH HEAD Ø	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.