

9.62 in (244mm) Bottom w/ 8 in (203mm) 7-8 Lobe 4.0 Stage HR MUD LUBE

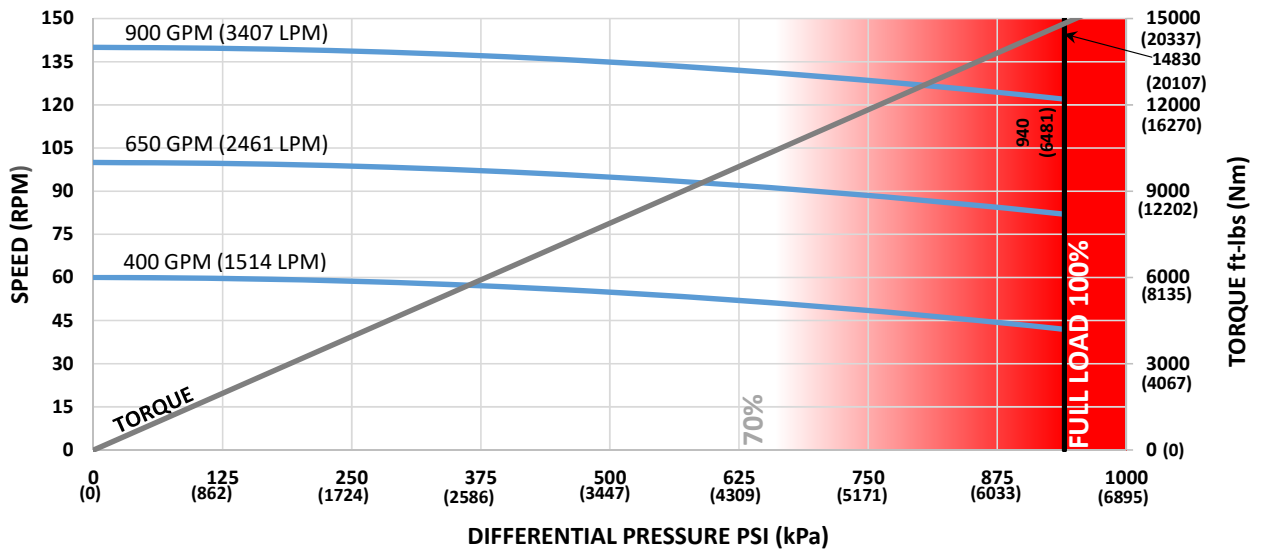


Bit Size Range	12-1/4 - 17-1/2 in	311 - 445 mm
Bit Box Connection	6-5/8 or 7-5/8 REGULAR	
Dynamic Bearing Load On/Off Bottom	188513 lbf	83900 daN
Static Bearing Load On/Off Bottom	1092750 lbf	486100 daN
Max. Overpull (For Re-run)	721400 lbf	320900 daN
Absolute Overpull	1202300 lbf	534800 daN
Adjustable Makeup Torque	60000 ft-lbs	81300 Nm
Stab/Thread Protector Makeup Torque	38000 ft-lbs	51500 Nm
A = Bit to Stabilizer (Centre)	24.58 in	0.62 m
B = Bit to Bend	Adjustable 88.3 in Fixed 72.8 in	2.24 m 1.85 m
C = Overall (With Dump Sub)	360.5 in	9.16 m
Weight	4539 lb	2059 kg

Lobe Configuration	7-8 Lobe 4.0 Stage HR	
Displacement (No Load)	0.16 rev/gal	0.04 rev/l
Max. Differential (Full Load)	940 psi	6481 kPa
Max. Torque	14830 ft-lbs	20107 Nm
Max. Power	344 HP	257 kW

Flow Rate		Speed
GPM	LPM	RPM
400	1514	42 - 60
650	2461	82 - 100
900	3407	122 - 140

8 in (203mm) 7-8 Lobe 4.0 Stage HR



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

ADJUSTABLE BUILD RATE

Hole Size	SLICK				STABILIZED			
	12-1/4 (311mm)	14 (356mm)	16 (406mm)	17-1/2 (445mm)	12-1/4 (311mm)	14 (356mm)	16 (406mm)	17-1/2 (445mm)
BEND ANGLE	Degrees per 100 Feet (30m)				Degrees per 100 Feet (30m)			
0.39	0.2	-	-	-	4.1	5.3	-	-
0.78	2.9	-	-	-	6.3	7.4	8.8	9.8
1.15	5.5	2.1	-	-	8.3	9.5	10.8	11.8
1.50	8.0	4.6	0.7	-	10.3	11.4	12.7	13.7
1.83	10.3	6.9	3.0	0.1	12.1	13.2	14.6	15.6
2.12	12.3	8.9	5.0	2.1	13.7	14.8	16.2	17.2
2.38	14.2	10.8	6.9	4.0	15.1	16.3	17.6	18.6
2.60	15.7	12.3	8.4	5.5	16.3	17.5	18.8	19.8
2.77	16.9	13.5	9.6	6.7	17.3	18.5	19.8	20.8
2.90	17.8	14.4	10.5	7.6	18.0	19.2	20.5	21.5
2.97	18.3	14.9	11.0	8.1	18.4	19.6	20.9	21.9
3.00	18.5	15.1	11.2	8.3	18.6	19.7	21.1	22.1

Note: Stabilizers are 1/8" undergauge

FBH BUILD RATE

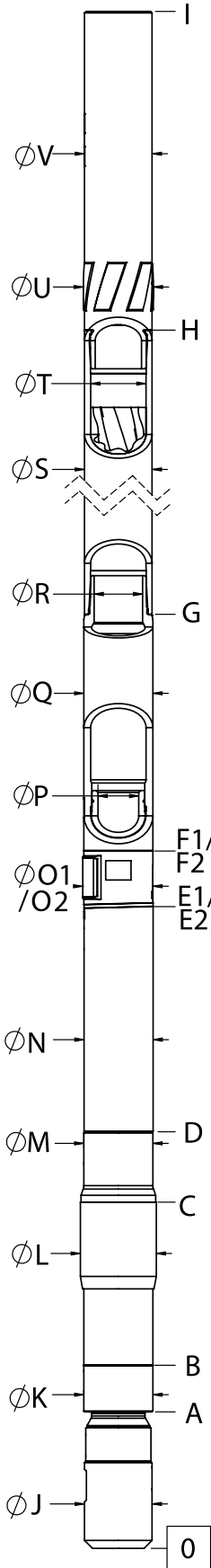
Hole Size	SLICK				STABILIZED			
	12-1/4 (311mm)	14 (356mm)	16 (406mm)	17-1/2 (445mm)	12-1/4 (311mm)	14 (356mm)	16 (406mm)	17-1/2 (445mm)
BEND ANGLE	Degrees per 100 Feet (30m)				Degrees per 100 Feet (30m)			
1.25	6.0	2.0	-	-	9.3	10.5	11.8	12.8
1.50	7.7	3.7	-	-	10.8	12.0	13.3	14.3
1.75	9.5	5.5	0.9	-	12.3	13.4	14.8	15.8
2.00	11.2	7.2	2.6	-	13.7	14.9	16.2	17.2
2.25	13.0	9.0	4.4	1.0	15.2	16.4	17.7	18.7
2.50	14.7	10.7	6.2	2.7	16.7	17.9	19.2	20.2

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.

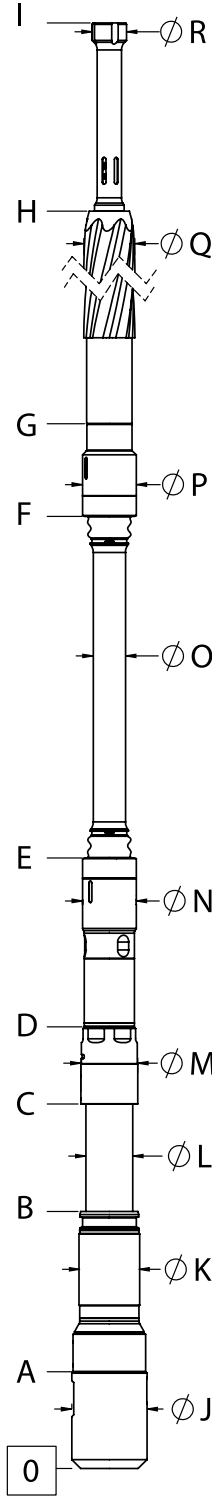
For custom motor configurations and build rates, please contact your DYNOMAX office.

FISHING DIMENSIONS

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



EXTERNALS		USC	SI
LOWER HSG FLOW REST.	A	16.0	0.41
BEARING HOUSING START	B	23.1	0.59
STABILIZER SHOULDER	C	49.1	1.25
BEARING HOUSING END	D	59.5	1.51
BIT TO BEND (ADJUSTABLE)	E1	88.3	2.24
ADAPTOR HOUSING (ADJUSTABLE)	F1	95.6	2.43
BIT TO BEND (FIXED)	E2	72.8	1.85
ADAPTOR HSG (FIXED)	F2	85.0	2.16
STATOR START	G	119.7	3.04
STATOR END	H	323.0	8.20
OVERALL LENGTH	I	360.5	9.16
BIT BOX Ø	J	6.00	152.4
LOWER HOUSING FLOW RESTRICTOR Ø	K	6.62	168.1
THREAD PROTECTOR Ø	L	10.75	273.1
BEARING HOUSING Ø	M	9.62	244.3
KICK OR FIXED HSG Ø	N	9.62	244.3
KICK PAD Ø (ADJUSTABLE)	O1	10.13	257.3
KICK PAD Ø (FIXED)	O2	10.13	257.3
ADJ MANDREL PIN Ø	P	5.60	142.2
ADAPTOR HOUSING Ø	Q	9.62	244.3
ADAPTOR HOUSING PIN Ø	R	5.65	143.5
STATOR TUBE OUTER Ø	S	8.00	203.2
STATOR TUBE INNER Ø	T	6.25	158.8
ROTOR CATCH SUB BLADE Ø	U	8.25	209.6
ROTOR CATCH Ø	V	8.00	203.2



INTERNALS		USC	SI
BIT BOX	A	11.0	0.28
LOWER SHAFT FLOW RESTRICTOR DIAMETER	B	29.1	0.74
COMPRESSION NUT	C	45.1	1.15
BEARING ASSEMBLY ADAPTOR	D	53.7	1.36
BAA ADAPTOR CAP	E	75.8	1.93
ROTOR ADAPTOR CAP	F	109.2	2.77
ROTOR START	G	119.0	3.02
ROTOR	H	315.3	8.01
CATCH STEM	I	331.3	8.41
BIT BOX Ø	J	9.00	228.6
FLOW RESTRICTOR Ø	K	7.06	179.3
MANDREL Ø	L	5.71	145.0
COMPRESSION NUT Ø	M	6.79	172.5
BEARING ASSEMBLY ADAPTOR Ø	N	7.10	180.3
DRIVESHAFT Ø	O	3.89	98.8
ROTOR ADAPTOR Ø	P	7.10	180.3
ROTOR MAJOR Ø	Q	4.75	120.7
ROTOR CATCH HEAD Ø	R	4.38	111.3

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.