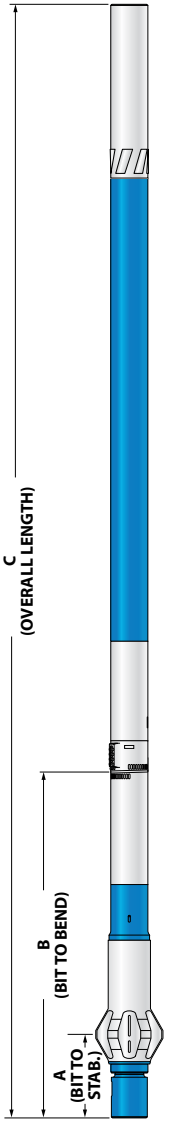
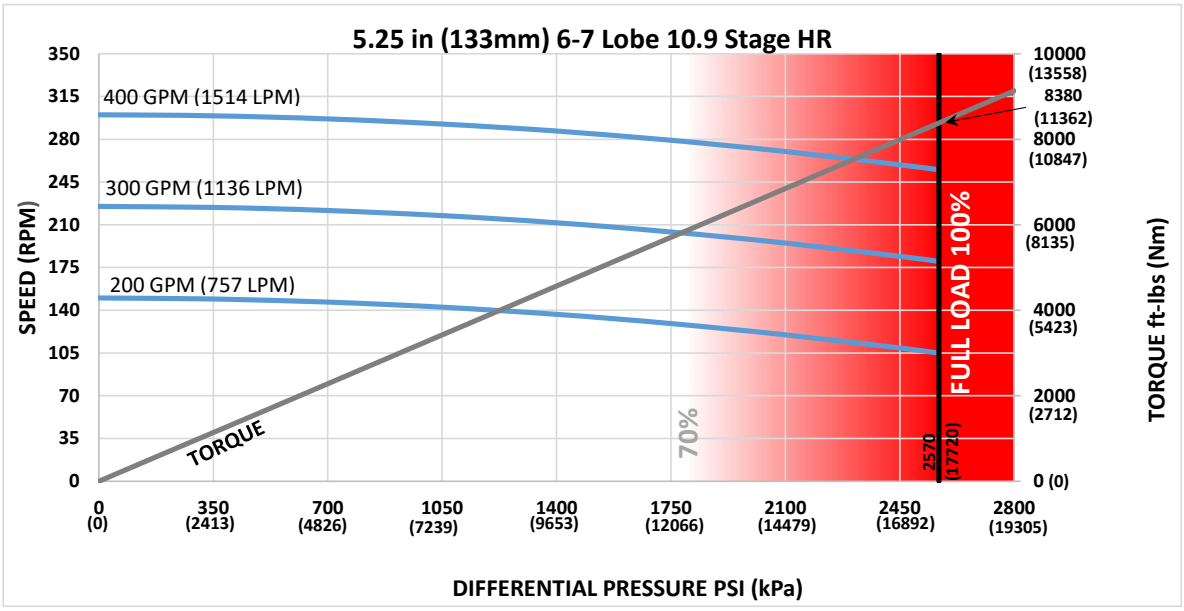
5.25 in (133mm) 6-7 Lobe 10.9 Stage HR MUD LUBE



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		12500 ft-lbs	16900 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)		392 in	9.96 m
Weight		1700 lb	771 kg

Lobe Configuration	6-7 Lobe 10.9 Stage HR	
Displacement (No Load)	0.75 rev/gal	0.2 rev/l
Max. Differential (Full Load)	2570 psi	17720 kPa
Max. Torque	8380 ft-lbs	11362 Nm
Max. Power	407 HP	303 kW

Flow Rate		**Speed**
GPM	**LPM**	**RPM**
200	757	105 - 150
300	1136	180 - 225
400	1514	255 - 300



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

ADJUSTABLE BUILD RATE

Hole Size	SLICK				STABILIZED			
	6 (152mm)	6-1/8 (156mm)	6-1/4 (159mm)	6-3/4 (171mm)	6 (152mm)	6-1/8 (156mm)	6-1/4 (159mm)	6-3/4 (171mm)
BEND ANGLE	Degrees per 100 Feet (30m)				Degrees per 100 Feet (30m)			
0.39	1.4	1.0	0.7	-	1.4	1.5	1.6	1.8
0.78	3.9	3.5	3.2	1.8	3.9	3.7	3.8	4.0
1.15	6.2	5.9	5.5	4.2	6.2	5.9	5.9	6.1
1.50	8.5	8.1	7.8	6.4	8.5	8.1	7.8	8.1
1.83	10.6	10.3	9.9	8.5	10.6	10.3	9.9	10.0
2.12	12.5	12.1	11.8	10.4	12.5	12.1	11.8	11.6
2.38	14.1	13.8	13.4	12.1	14.1	13.8	13.4	13.1
2.60	15.5	15.2	14.8	13.5	15.5	15.2	14.8	14.3
2.77	16.6	16.3	15.9	14.6	16.6	16.3	15.9	15.3
2.90	17.5	17.1	16.8	15.4	17.5	17.1	16.8	16.0
2.97	17.9	17.6	17.2	15.8	17.9	17.6	17.2	16.4
3.00	18.1	17.7	17.4	16.0	18.1	17.7	17.4	16.6

Note: Stabilizers are 1/8" undergage

FBH BUILD RATE

Hole Size	SLICK				STABILIZED			
	6 (152mm)	6-1/8 (156mm)	6-1/4 (159mm)	6-3/4 (171mm)	6 (152mm)	6-1/8 (156mm)	6-1/4 (159mm)	6-3/4 (171mm)
BEND ANGLE	Degrees per 100 Feet (30m)				Degrees per 100 Feet (30m)			
1.25	6.6	6.2	5.8	4.2	6.6	6.6	6.7	6.9
1.50	8.2	7.8	7.4	5.8	8.2	8.1	8.1	8.4
1.75	9.9	9.4	9.0	7.4	9.9	9.5	9.6	9.9
2.00	11.5	11.0	10.6	9.0	11.5	11.0	11.1	11.3
2.25	13.1	12.6	12.2	10.6	13.1	12.6	12.5	12.8
2.50	14.7	14.2	13.8	12.2	14.7	14.2	14.0	14.3

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.

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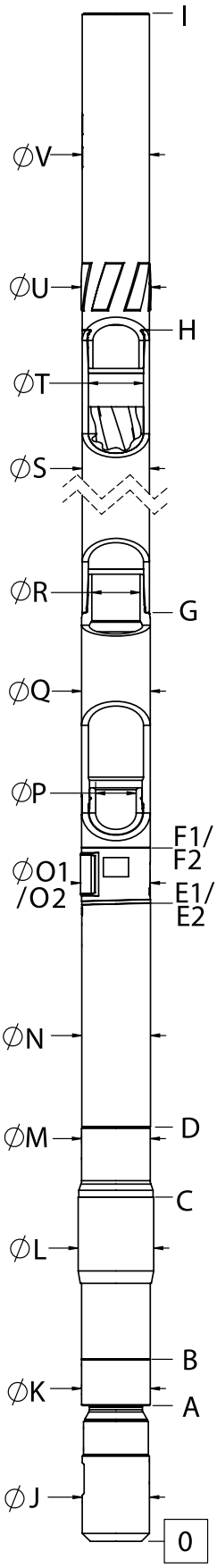
February 18, 2026

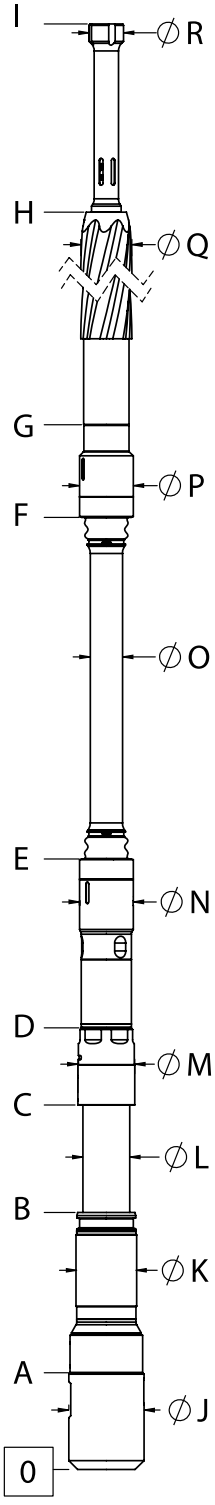
5.25 in (133mm) 6-7 Lobe 10.9 Stage HR MUD LUBE

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	360.9	9.17
OVERALL LENGTH	I	392.0	9.96
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	3.74	95.0
STATOR TUBE OUTER Ø	S	5.25	133.4
STATOR TUBE INNER Ø	T	4.00	101.6
ROTOR CATCH SUB BLADE Ø	U	5.50	139.7
ROTOR CATCH Ø	V	5.25	133.4



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	355.0	9.02
CATCH STEM	I	366.9	9.32
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	3.42	86.8
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.

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