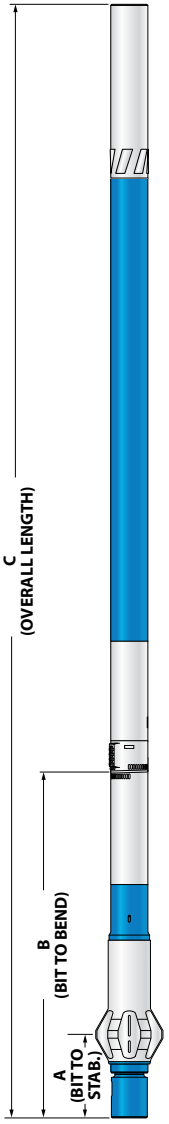
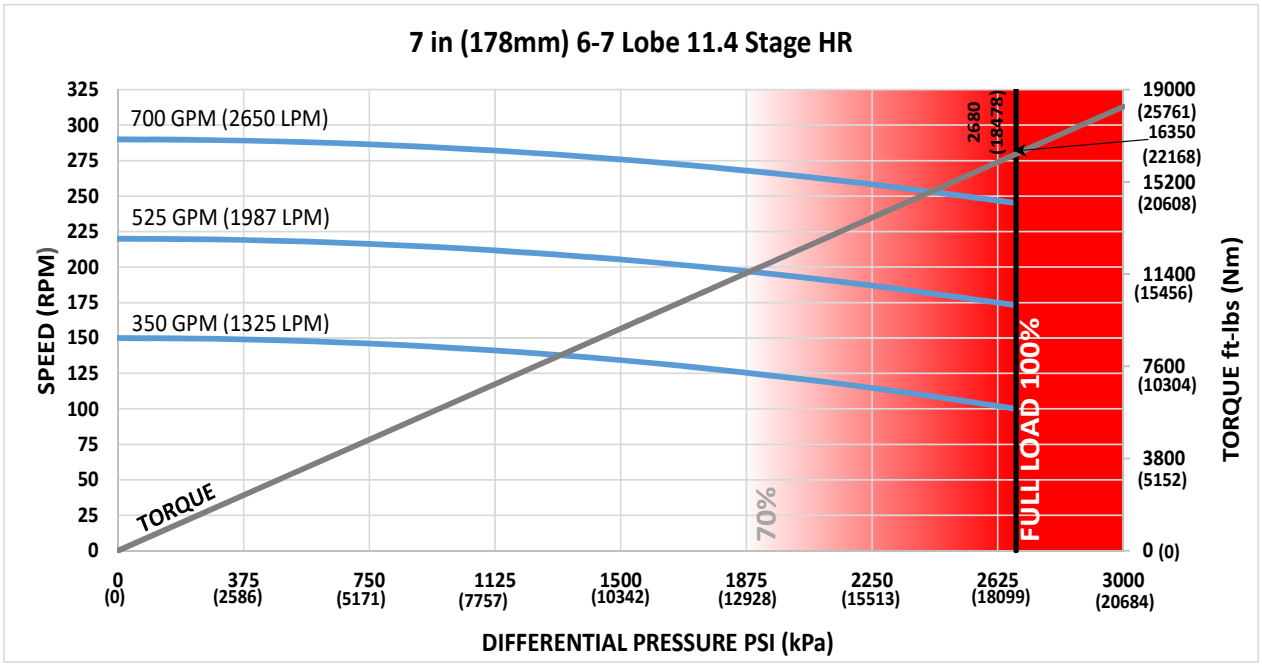
7 in (178mm) 6-7 Lobe 11.4 Stage HR SERIES 3



Bit Size Range		8-1/2 - 9-7/8 in	216 - 251 mm
Bit Box Connection		4-1/2 REGULAR	
Dynamic Bearing Load On/Off Bottom		151925 lbf	67600 daN
Static Bearing Load On/Off Bottom		509765 lbf	226800 daN
Max. Overpull (For Re-run)		509765 lbf	226800 daN
Absolute Overpull		742200 lbf	330100 daN
Adjustable Makeup Torque		32000 ft-lbs	43400 Nm
Stab/Thread Protector Makeup Torque		15000 ft-lbs	20300 Nm
A = Bit to Stabilizer (Centre)		17 in	0.43 m
B = Bit to Bend	**Adjustable**	68 in	1.73 m
	Fixed	56.3 in	1.43 m
C = Overall (With Dump Sub)		406.5 in	10.33 m
Weight		3042 lb	1380 kg

Lobe Configuration	6-7 Lobe 11.4 Stage HR	
Displacement (No Load)	0.42 rev/gal	0.11 rev/l
Max. Differential (Full Load)	2680 psi	18478 kPa
Max. Torque	16350 ft-lbs	22168 Nm
Max. Power	763 HP	569 kW

Flow Rate		**Speed**
GPM	**LPM**	**RPM**
350	1325	100 - 150
525	1987	173 - 220
700	2650	245 - 290



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

ADJUSTABLE BUILD RATE

Hole Size	SLICK				STABILIZED			
	8-1/2 (216mm)	8-3/4 (222mm)	9-7/8 (251mm)	9-7/8 (251mm)	8-1/2 (216mm)	8-3/4 (222mm)	9-7/8 (251mm)	9-7/8 (251mm)
BEND ANGLE	Degrees per 100 Feet (30m)				Degrees per 100 Feet (30m)			
0.39	0.8	0.2	-	-	2.0	2.1	2.6	2.6
0.78	3.2	2.7	0.1	0.1	4.0	4.1	4.7	4.7
1.15	5.5	4.9	2.4	2.4	6.0	6.1	6.7	6.7
1.50	7.7	7.1	4.6	4.6	7.8	8.0	8.5	8.5
1.83	9.7	9.1	6.6	6.6	9.7	9.7	10.3	10.3
2.12	11.5	10.9	8.4	8.4	11.5	11.3	11.8	11.8
2.38	13.1	12.5	10.0	10.0	13.1	12.6	13.2	13.2
2.60	14.5	13.9	11.4	11.4	14.5	13.9	14.3	14.3
2.77	15.5	14.9	12.4	12.4	15.5	14.9	15.3	15.3
2.90	16.3	15.8	13.2	13.2	16.3	15.8	15.9	15.9
2.97	16.7	16.2	13.7	13.7	16.7	16.2	16.3	16.3
3.00	16.9	16.4	13.9	13.9	16.9	16.4	16.5	16.5

Note: Stabilizers are 1/8" undergauge

FBH BUILD RATE

Hole Size	SLICK				STABILIZED			
	8-1/2 (216mm)	8-3/4 (222mm)	9-7/8 (251mm)	9-7/8 (251mm)	8-1/2 (216mm)	8-3/4 (222mm)	9-7/8 (251mm)	9-7/8 (251mm)
BEND ANGLE	Degrees per 100 Feet (30m)				Degrees per 100 Feet (30m)			
1.25	5.8	5.1	2.2	2.2	6.8	6.9	7.4	7.4
1.50	7.3	6.7	3.7	3.7	8.1	8.3	8.8	8.8
1.75	8.9	8.2	5.2	5.2	9.5	9.6	10.2	10.2
2.00	10.4	9.7	6.8	6.8	10.9	11.0	11.6	11.6
2.25	11.9	11.3	8.3	8.3	12.3	12.4	12.9	12.9
2.50	13.5	12.8	9.9	9.9	13.6	13.8	14.3	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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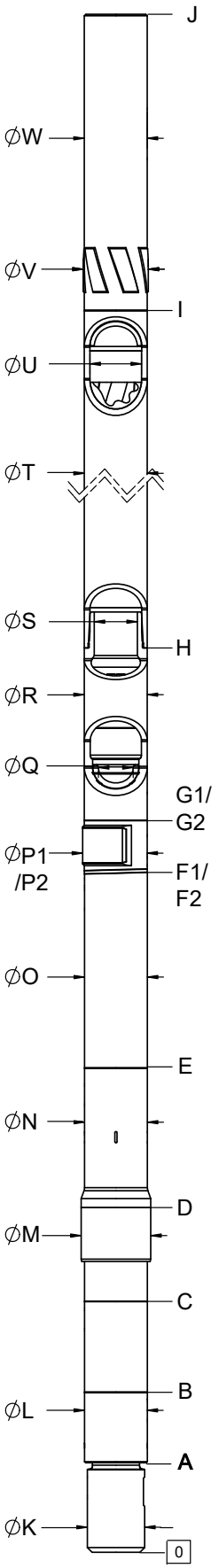
January 2, 2025

DYNOMAX DRILLING TOOLS INC

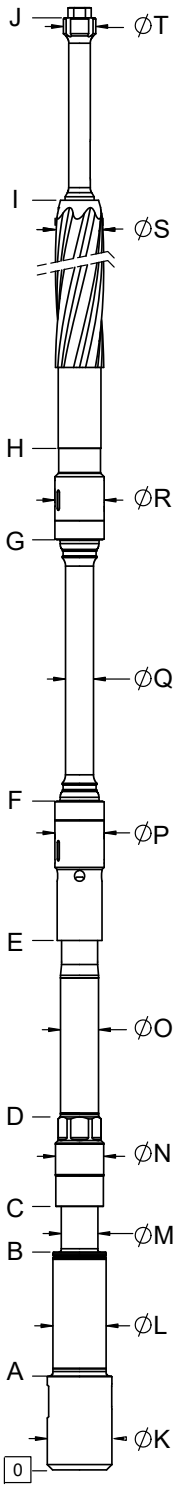
7 in (178mm) 6-7 Lobe 11.4 Stage HR SERIES 3

FISHING DIMENSIONS

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



EXTERNALS		USC	SI
END CAP	**A**	11.2	0.28
BEARING HOUSING	**B**	--	--
PISTON HOUSING	**C**	17.8	0.45
STABILIZER SHOULDER	**D**	34.3	0.87
KICK/FIXED HOUSING	**E**	44.9	1.14
BIT TO BEND (ADJUST-ABLE)	**F1**	68.0	1.73
ADAPTOR HOUSING (ADJUSTABLE)	**G1**	73.9	1.88
BIT TO BEND (FIXED)	**F2**	56.3	1.43
ADAPTOR HOUSING (FIXED)	**G2**	66.5	1.69
STATOR START	**H**	98.5	2.50
STATOR END	**I**	373.5	9.49
OVERALL LENGTH	**J**	406.5	10.33
BIT BOX Ø	**K**	6.38	162.1
END CAP/BEARING HOUSING Ø	**L**	7.00	177.8
THREAD PROTECTOR Ø	**M**	7.75	196.9
PISTON HOUSING Ø	**N**	7.15	181.6
KICK/FIXED HOUSING Ø	**O**	7.15	181.6
PAD (ADJUSTABLE) Ø	**P1**	7.38	187.5
PAD (FIXED) Ø	**P2**	7.38	187.5
ADJUSTABLE MANDREL PIN Ø	**Q**	4.22	107.2
ADAPTOR HOUSING Ø	**R**	7.15	181.6
ADAPTOR PIN Ø	**S**	5.04	127.9
STATOR TUBE OUTER Ø	**T**	7.00	177.8
STATOR TUBE INNER Ø	**U**	5.75	146.1
ROTOR CATCH SUB BLADE Ø	**V**	7.25	184.2
ROTOR CATCH SUB Ø	**W**	7.00	177.8



INTERNALS		USC	SI
BIT BOX	**A**	10.0	0.25
THRUST SHOULDER	**B**	22.9	0.58
WASHPIPE START	**C**	28.0	0.71
HEX END	**D**	34.2	0.87
BEARING ASSEMBLY ADAPTOR	**E**	43.1	1.09
BAA CAP	**F**	58.8	1.49
ROTOR ADAPTOR CAP	**G**	90.6	2.30
ROTOR START	**H**	99.2	2.52
ROTOR END	**I**	366.2	9.30
CATCH STEM	**J**	383.7	9.75
BIT BOX Ø	**K**	6.38	162.1
MANDREL Ø	**L**	5.25	133.4
THRUST Ø	**M**	4.49	114.0
WASHPIPE LARGE Ø	**N**	5.50	139.7
WASHPIPE SMALL Ø	**O**	4.25	108.0
BEARING ASSEMBLY ADAPTOR Ø	**P**	5.00	127.0
DRIVESHAFT Ø	**Q**	3.00	76.2
ROTOR ADAPTOR Ø	**R**	5.00	127.0
ROTOR MAJOR DIA. Ø	**S**	4.69	119.1
ROTOR CATCH STEM Ø	**T**	3.19	81.0

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.

January 2, 2025

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