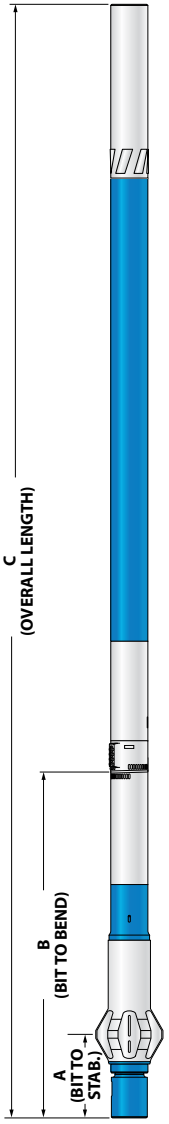
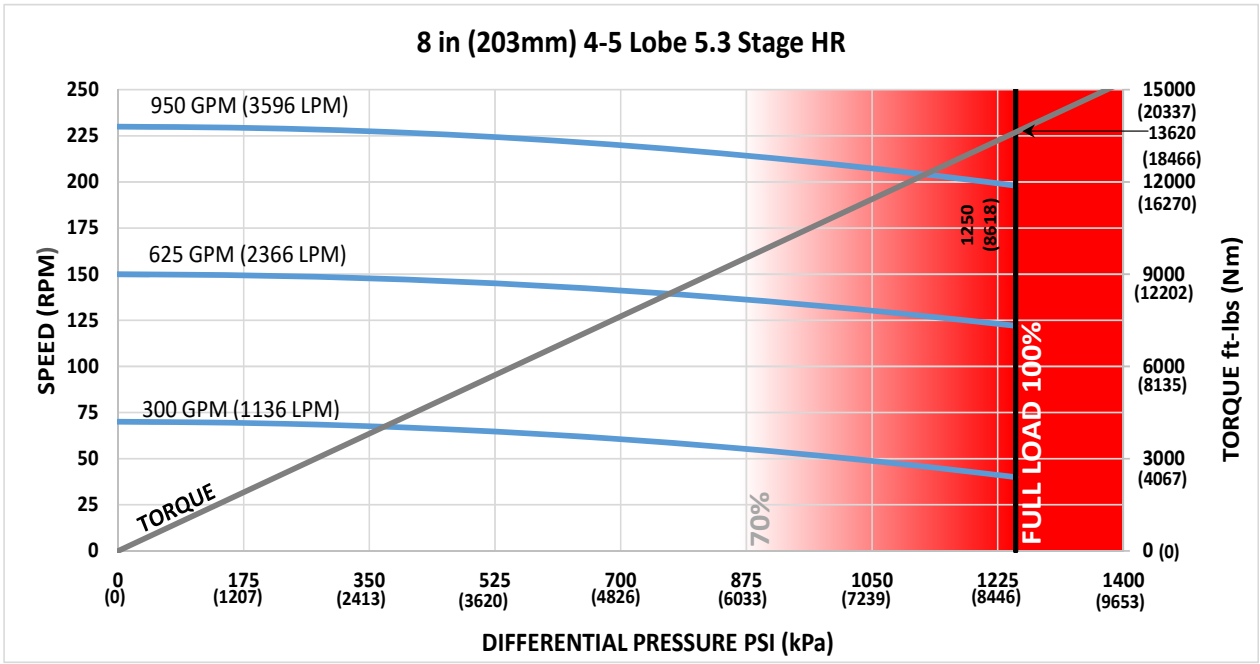
8 in (203mm) 4-5 Lobe 5.3 Stage HR SERIES 2



Bit Size Range		9-7/8 - 12-1/4 in	251 - 311 mm
Bit Box Connection		6-5/8 REGULAR	
Dynamic Bearing Load On/Off Bottom		162510 lbf	72300 daN
Static Bearing Load On/Off Bottom		573485 lbf	255100 daN
Max. Overpull (For Re-run)		554100 lbf	246500 daN
Absolute Overpull		923500 lbf	410800 daN
Adjustable Makeup Torque		40000 ft-lbs	54200 Nm
Stab/Thread Protector Makeup Torque		30000 ft-lbs	40700 Nm
A = Bit to Stabilizer (Centre)		19.1 in	0.49 m
B = Bit to Bend	**Adjustable**	74.4 in	1.89 m
	Fixed	60.1 in	1.53 m
C = Overall (With Dump Sub)		368.4 in	9.36 m
Weight		3779 lb	1714 kg

Lobe Configuration	4-5 Lobe 5.3 Stage HR	
Displacement (No Load)	0.24 rev/gal	0.06 rev/l
Max. Differential (Full Load)	1250 psi	8618 kPa
Max. Torque	13620 ft-lbs	18466 Nm
Max. Power	513 HP	383 kW

Flow Rate		**Speed**
GPM	**LPM**	**RPM**
300	51136	40 - 70
625	2366	122 - 150
950	3596	198 - 230



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

ADJUSTABLE BUILD RATE

Hole Size	SLICK				STABILIZED			
	9-7/8 (251mm)	10-5/8 (270mm)	11-1/2 (292mm)	12-1/4 (311mm)	9-7/8 (251mm)	10-5/8 (270mm)	11-1/2 (292mm)	12-1/4 (311mm)
BEND ANGLE	Degrees per 100 Feet (30m)				Degrees per 100 Feet (30m)			
0.39	-	-	-	-	2.4	2.8	-	-
0.78	2.1	0.3	-	-	4.6	5.1	5.6	6.1
1.15	4.6	2.9	0.9	-	6.7	7.2	7.7	8.2
1.50	7.0	5.3	3.3	1.6	8.7	9.2	9.7	10.2
1.83	9.3	7.6	5.6	3.9	10.6	11.1	11.6	12.1
2.12	11.3	9.6	7.6	5.9	12.2	12.7	13.3	13.7
2.38	13.1	11.4	9.4	7.7	13.7	14.2	14.7	15.2
2.60	14.7	12.9	10.9	9.2	15.0	15.5	16.0	16.5
2.77	15.8	14.1	12.1	10.4	16.0	16.4	17.0	17.4
2.90	16.7	15.0	13.0	11.3	16.7	17.2	17.7	18.2
2.97	17.2	15.5	13.5	11.8	17.2	17.6	18.1	18.6
3.00	17.4	15.7	13.7	12.0	17.4	17.7	18.3	18.8

Note: Stabilizers are 1/8" undergage

FBH BUILD RATE

Hole Size	SLICK				STABILIZED			
	9-7/8 (251mm)	10-5/8 (270mm)	11-1/2 (292mm)	12-1/4 (311mm)	9-7/8 (251mm)	10-5/8 (270mm)	11-1/2 (292mm)	12-1/4 (311mm)
BEND ANGLE	Degrees per 100 Feet (30m)				Degrees per 100 Feet (30m)			
1.25	4.6	2.6	0.2	-	7.7	8.1	8.7	9.2
1.50	6.4	4.3	1.9	-	9.2	9.6	10.2	10.7
1.75	8.1	6.0	3.6	1.6	10.7	11.2	11.7	12.2
2.00	9.8	7.8	5.4	3.3	12.2	12.7	13.2	13.7
2.25	11.6	9.5	7.1	5.0	13.7	14.2	14.7	15.2
2.50	13.3	11.2	8.8	6.8	15.2	15.7	16.2	16.7

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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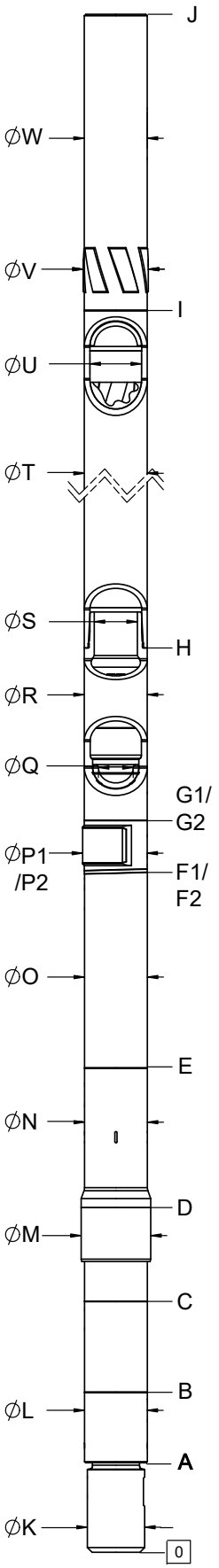
October 25, 2022

DYNOMAX DRILLING TOOLS INC

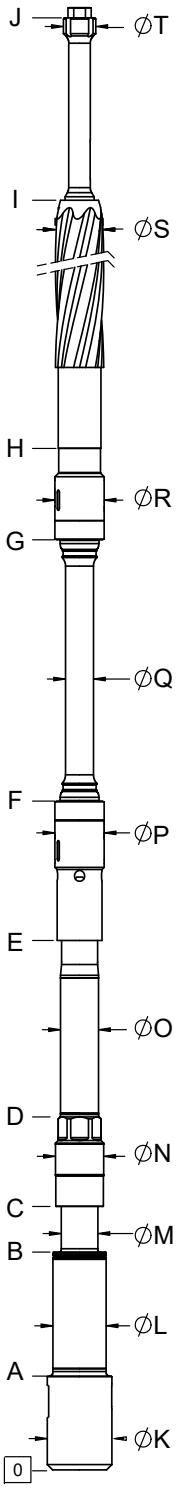
8 in (203mm) 4-5 Lobe 5.3 Stage HR SERIES 2

FISHING DIMENSIONS

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



EXTERNALS		USC	SI
END CAP	A	9.6	0.24
BEARING HOUSING	B	16.2	0.41
PISTON HOUSING	C	27.4	0.70
STABILIZER SHOULDER	D	38.4	0.98
KICK/FIXED HOUSING	E	50.4	1.28
BIT TO BEND (ADJUST-ABLE)	F1	74.4	1.89
ADAPTOR HOUSING (ADJUSTABLE)	G1	81.4	2.07
BIT TO BEND (FIXED)	F2	60.1	1.53
ADAPTOR HOUSING (FIXED)	G2	81.5	2.07
STATOR START	H	102.9	2.61
STATOR END	I	330.9	8.40
OVERALL LENGTH	J	368.4	9.36
BIT BOX Ø	K	7.75	196.9
END CAP/BEARING HOUSING Ø	L	8.00	203.2
THREAD PROTECTOR Ø	M	8.75	222.3
PISTON HOUSING Ø	N	8.00	203.2
KICK/FIXED HOUSING Ø	O	8.00	203.2
PAD (ADJUSTABLE) Ø	P1	8.50	215.9
PAD (FIXED) Ø	P2	8.40	213.4
ADJUSTABLE MANDREL PIN Ø	Q	4.81	122.2
ADAPTOR HOUSING Ø	R	8.00	203.2
ADAPTOR PIN Ø	S	5.65	143.5
STATOR TUBE OUTER Ø	T	8.00	203.2
STATOR TUBE INNER Ø	U	6.25	158.8
ROTOR CATCH SUB BLADE Ø	V	8.25	209.6
ROTOR CATCH SUB Ø	W	8.00	203.2



INTERNALS		USC	SI
BIT BOX	A	8.8	0.22
THRUST SHOULDER	B	20.0	0.51
WASHPIPE START	C	25.4	0.65
HEX END	D	33.8	0.86
BEARING ASSEMBLY ADAPTOR	E	46.9	1.19
BAA CAP	F	62.9	1.60
ROTOR ADAPTOR CAP	G	93.1	2.36
ROTOR START	H	102.0	2.59
ROTOR END	I	323.0	8.20
CATCH STEM	J	339.0	8.61
BIT BOX Ø	K	7.75	196.9
MANDREL Ø	L	6.25	158.8
THRUST Ø	M	4.75	120.7
WASHPIPE LARGE Ø	N	5.75	146.1
WASHPIPE SMALL Ø	O	5.00	127.0
BEARING ASSEMBLY ADAPTOR Ø	P	5.81	147.6
DRIVESHAFT Ø	Q	3.38	85.9
ROTOR ADAPTOR Ø	R	5.81	147.6
ROTOR MAJOR DIA. Ø	S	4.94	125.5
ROTOR CATCH STEM Ø	T	4.38	111.3

This information is for reference only. Assemblies are displayed in an "Adjustable Conifguration"

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.

October 25, 2022

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