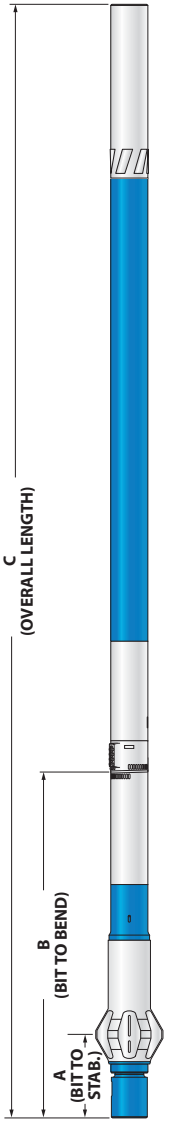
DYNOMAX DRILLING TOOLS INC

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

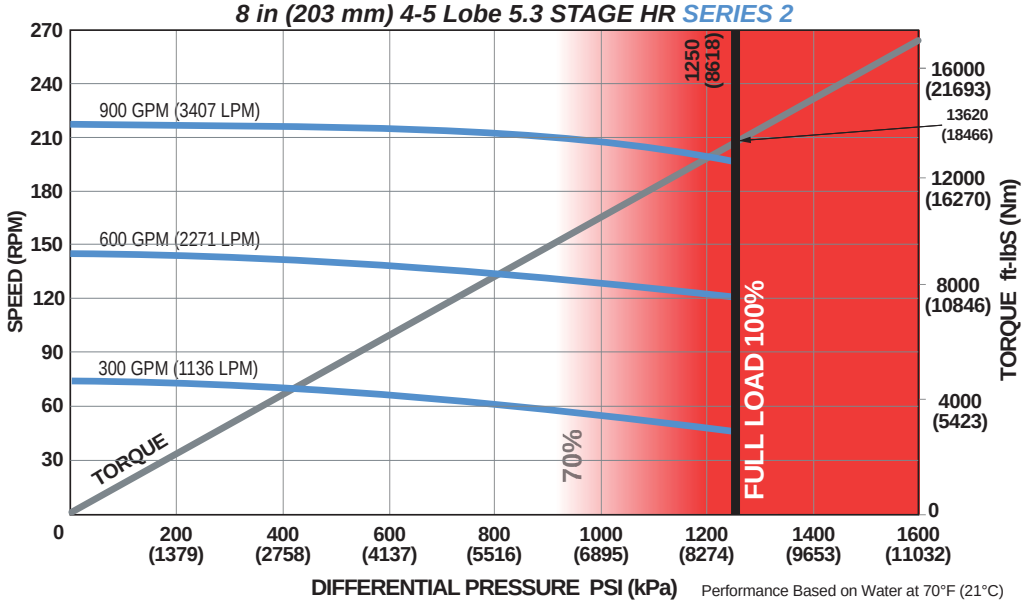


Bit Size Range		9-7/8 - 12-1/4 in	251 - 311 mm
Bit Box Connection		6-5/8 REGULAR	
Bearing Load On Bottom	**Dynamic**	162510 lbf	72290 daN
	Static	573485 lbf	255100 daN
Bearing Load Off Bottom	**Dynamic**	162510 lbf	72290 daN
	Static	573485 lbf	255100 daN
Max. Overpull (for re-run)		554100 lbf	246000 daN
Absolute Overpull		923500 lbf	411000 daN
Adjustable Makeup Torque		40000 ft-lbs	54233 Nm
A = Bit to Stabilizer (centre)		16.87 in	428 mm
B = Bit to Bend	**Adjustable**	74.7 in	1897 mm
	Fixed	60.1 in	1527 mm
C = Overall (with Dump Sub)		368.4 in	9357 mm
Weight		3856 lbs	1749.1 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	1,250 psi	8,618 kPa
Max. Torque	13,620 ft-lbs	18,466 Nm
Max. Power	503 HP	375 kW

Flow Rate		**Speed**
GPM	**LPM**	**RPM**
300	1,136	50 - 72
600	2,271	122 - 144
900	3,407	194 - 216

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



Performance Based on Water at 70°F (21°C)

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

ADJUSTABLE BUILD RATE: 8 in (203 mm) 4-5 Lobe 5.3 Stage HR SERIES 2

Hole Size	SLICK			STABILIZED		
	9-7/8 (251 mm)	10-5/8 (270 mm)	12-1/4 (311 mm)	9-7/8 (251 mm)	10-5/8 (270 mm)	12-1/4 (311 mm)
BEND ANGLE	Degrees per 100 Feet (30 m)			Degrees per 100 Feet (30 m)		
0.39	-	-	-	1.14	1.51	2.30
0.78	1.71	0.23	-	3.10	3.46	4.26
1.15	3.93	2.45	-	5.66	5.32	6.12
1.50	6.03	4.54	1.33	8.11	7.74	7.87
1.83	8.01	6.52	3.30	10.41	10.05	9.53
2.12	9.74	8.26	5.04	12.44	12.07	11.28
2.38	11.30	9.81	6.60	14.26	13.89	13.10
2.60	12.62	11.13	7.91	15.79	15.43	14.63
2.77	13.64	12.15	8.93	16.98	16.62	15.82
2.90	14.41	12.93	9.71	17.89	17.52	16.73
2.97	14.83	13.35	10.13	18.38	18.01	17.22
3.00	15.01	13.53	10.31	18.59	18.22	17.43

FBH BUILD RATE: 8 in (203 mm) 4-5 Lobe 5.3 Stage HR SERIES 2

Hole Size	SLICK			STABILIZED		
	9-7/8 (251 mm)	10-5/8 (270 mm)	12-1/4 (311 mm)	9-7/8 (251 mm)	10-5/8 (270 mm)	12-1/4 (311 mm)
BEND ANGLE	Degrees per 100 Feet (30 m)			Degrees per 100 Feet (30 m)		
1.25	3.93	2.15	-1.72	6.06	6.13	6.93
1.50	5.43	3.64	-0.23	7.74	7.45	8.24
1.75	6.93	5.14	1.27	9.43	9.06	9.56
2.00	8.42	6.64	2.77	11.11	10.75	10.88
2.25	9.92	8.14	4.27	12.80	12.43	12.19
2.50	11.42	9.63	5.76	14.48	14.12	13.51

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.

December 19, 2017

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