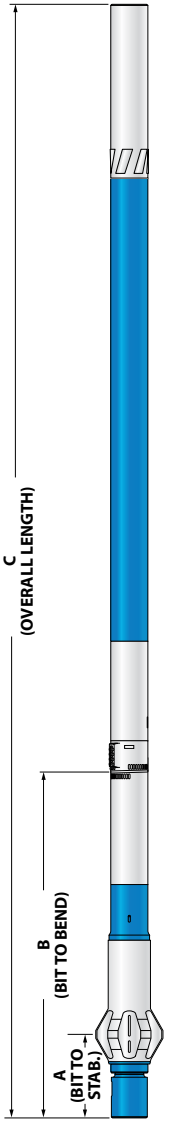
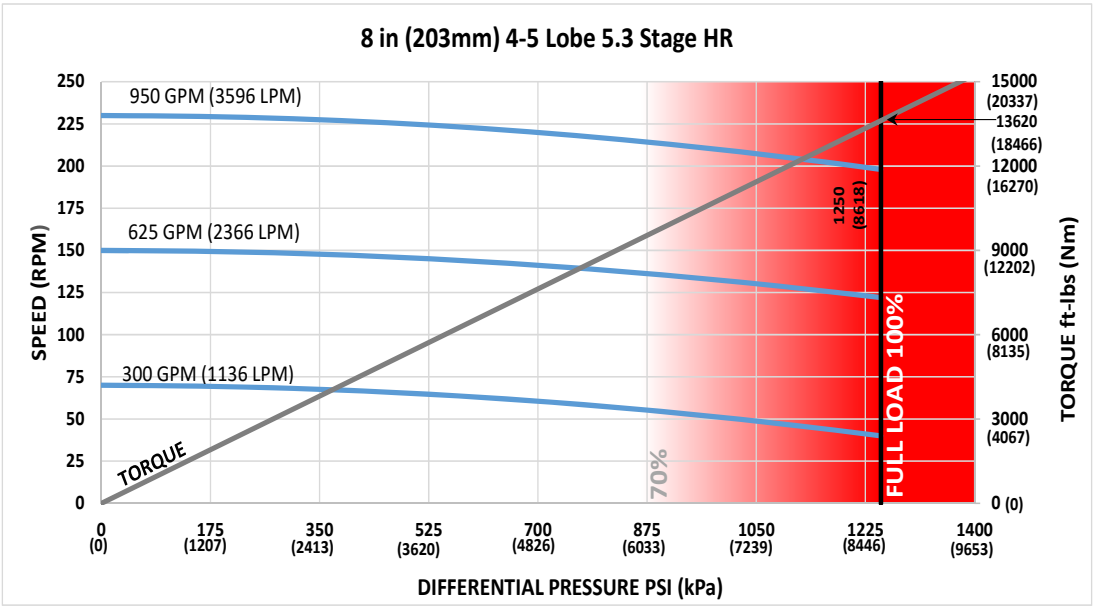
8 in (203 mm) 4-5 Lobe 5.3 Stage HR SERIES 2



Bit Size Range		9-⅞ - 12-¼ in	251 - 311 mm
Bit Box Connection		6-⅝ 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)		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		4198 lbs	1904 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	1136	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			
	9-⅞ (251mm)	10-⅝ (270mm)	11-½ (292mm)	12-¼ (311mm)	9-⅞ (251mm)	10-⅝ (270mm)	11-½ (292mm)	12-¼ (311mm)
BEND ANGLE	Degrees per 100 Feet (30m)				Degrees per 100 Feet (30m)			
0.39	-	-	-	-	2.3	2.8	-	-
0.78	2.1	0.4	-	-	4.5	5.0	5.5	6.0
1.15	4.6	2.9	0.9	-	6.6	7.1	7.6	8.1
1.50	7.1	5.4	3.4	1.6	8.6	9.0	9.6	10.1
1.83	9.3	7.6	5.6	3.9	10.4	10.9	11.5	11.9
2.12	11.4	9.6	7.6	5.9	12.1	12.5	13.1	13.6
2.38	13.2	11.4	9.4	7.7	13.6	14.0	14.6	15.0
2.60	14.7	13.0	11.0	9.3	14.8	15.3	15.8	16.3
2.77	15.9	14.1	12.1	10.4	15.9	16.2	16.8	17.2
2.90	16.8	15.0	13.0	11.3	16.8	17.0	17.5	18.0
2.97	17.2	15.5	13.5	11.8	17.2	17.4	17.9	18.4
3.00	17.4	15.7	13.7	12.0	17.4	17.5	18.1	18.5

Note: Stabilizers are ⅛" undergage

FBH BUILD RATE

Hole Size	SLICK				STABILIZED			
	9-⅞ (251mm)	10-⅝ (270mm)	11-½ (292mm)	12-¼ (311mm)	9-⅞ (251mm)	10-⅝ (270mm)	11-½ (292mm)	12-¼ (311mm)
BEND ANGLE	Degrees per 100 Feet (30m)				Degrees per 100 Feet (30m)			
1.25	4.6	2.6	0.2	-	7.6	8.0	8.6	9.0
1.50	6.4	4.3	1.9	-	9.0	9.5	10.1	10.5
1.75	8.1	6.0	3.6	1.6	10.5	11.0	11.6	12.0
2.00	9.8	7.8	5.4	3.3	12.0	12.5	13.1	13.5
2.25	11.6	9.5	7.1	5.0	13.5	14.0	14.5	15.0
2.50	13.3	11.2	8.8	6.8	15.0	15.5	16.0	16.5

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.

June 1, 2020

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