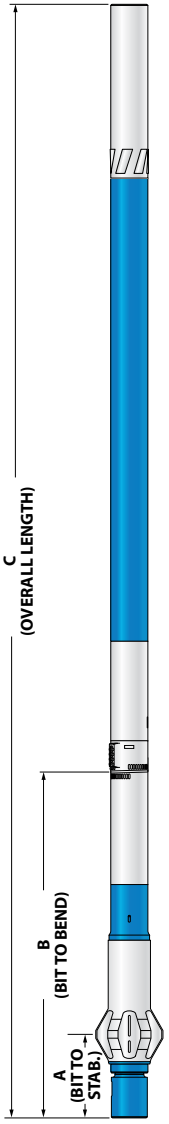
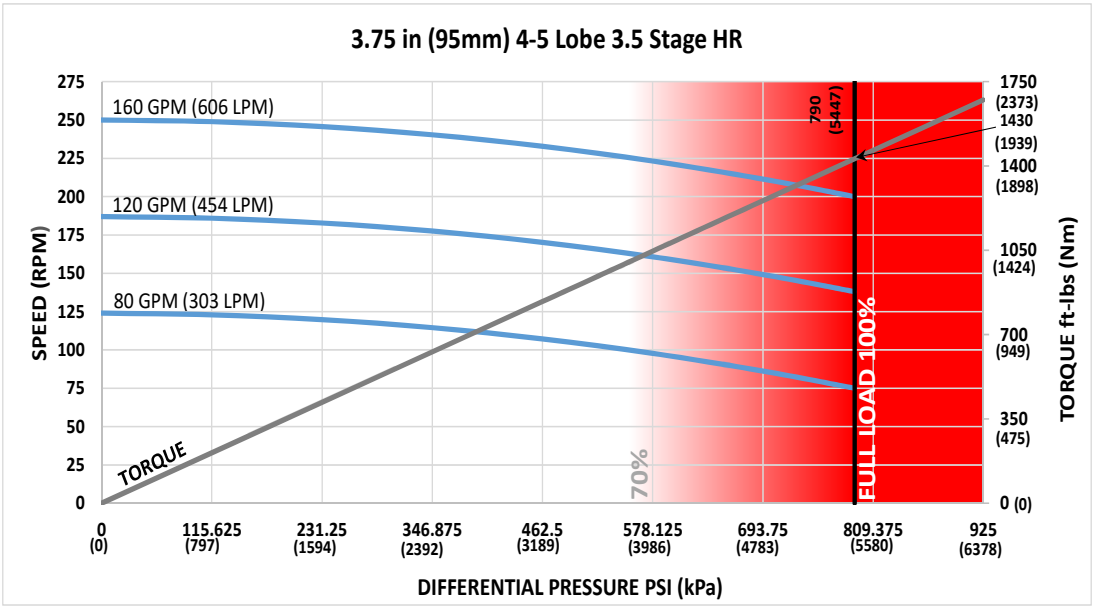
3-3/4 in (95 mm) 4-5 Lobe 3.5 Stage HR SERIES 1



Bit Size Range		4-¾ - 5-⅞ in	121 - 149 mm
Bit Box Connection		2-⅞ REGULAR	
Dynamic Bearing Load On/Off Bottom		31850 lbf	14200 daN
Static Bearing Load On/Off Bottom		104100 lbf	46300 daN
Max. Overpull (For Re-run)		154100 lbf	68500 daN
Absolute Overpull		256800 lbf	114200 daN
Adjustable Makeup Torque		3500 ft-lbs	4700 Nm
Stab/Thread Protector Makeup Torque		3500 ft-lbs	4700 Nm
A = Bit to Stabilizer (Centre)		10 in	254 mm
B = Bit to Bend	**Adjustable**	50.6 in	1285 mm
	Fixed	41.5 in	1054 mm
C = Overall (With Dump Sub)		228.7 in	5809 mm
Weight		422 lbs	191 kg

Lobe Configuration	4-5 Lobe 3.5 Stage HR	
Displacement (No Load)	1.55 rev/gal	0.41 rev/l
Max. Differential (Full Load)	790 psi	5447 kPa
Max. Torque	1430 ft-lbs	1939 Nm
Max. Power	54 HP	41 kW

Flow Rate		**Speed**
GPM	**LPM**	**RPM**
80	303	75 - 124
120	454	150 - 185
160	606	200 - 250



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

ADJUSTABLE BUILD RATE

Hole Size	SLICK				STABILIZED			
	4-3/4 (121mm)	5 (127mm)	5-1/4 (133mm)	5-7/8 (149mm)	4-3/4 (121mm)	5 (127mm)	5-1/4 (133mm)	5-7/8 (149mm)
BEND ANGLE	Degrees per 100 Feet (30m)				Degrees per 100 Feet (30m)			
0.39	0.7	-	-	-	0.7	-	-	-
0.78	5.0	3.7	2.3	-	5.0	3.9	4.3	5.3
1.15	9.1	7.8	6.4	3.0	9.1	7.8	7.5	8.5
1.50	13.0	11.6	10.3	6.8	13.0	11.6	10.6	11.6
1.83	16.7	15.3	13.9	10.5	16.7	15.3	13.9	14.5
2.12	19.9	18.5	17.1	13.7	19.9	18.5	17.1	17.1
2.38	22.8	21.4	20.0	16.6	22.8	21.4	20.0	19.4
2.60	25.2	23.8	22.5	19.0	25.2	23.8	22.5	21.3
2.77	27.1	25.7	24.3	20.9	27.1	25.7	24.3	22.8
2.90	28.5	27.1	25.8	22.4	28.5	27.1	25.8	24.0
2.97	29.3	27.9	26.6	23.1	29.3	27.9	26.6	24.6
3.00	29.6	28.3	26.9	23.5	29.6	28.3	26.9	24.9

Note: Stabilizers are ⅛" undergage

FBH BUILD RATE

Hole Size	SLICK				STABILIZED			
	4-3/4 (121mm)	5 (127mm)	5-1/4 (133mm)	5-7/8 (149mm)	4-3/4 (121mm)	5 (127mm)	5-1/4 (133mm)	5-7/8 (149mm)
BEND ANGLE	Degrees per 100 Feet (30m)				Degrees per 100 Feet (30m)			
1.25	9.4	7.8	6.2	2.1	9.4	8.7	9.1	10.1
1.50	12.2	10.6	9.0	4.9	12.2	11.0	11.4	12.4
1.75	15.0	13.4	11.7	7.7	15.0	13.4	13.7	14.7
2.00	17.8	16.1	14.5	10.4	17.8	16.1	16.1	17.0
2.25	20.5	18.9	17.3	13.2	20.5	18.9	18.4	19.4
2.50	23.3	21.7	20.0	16.0	23.3	21.7	20.7	21.7

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.

June 1, 2020

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