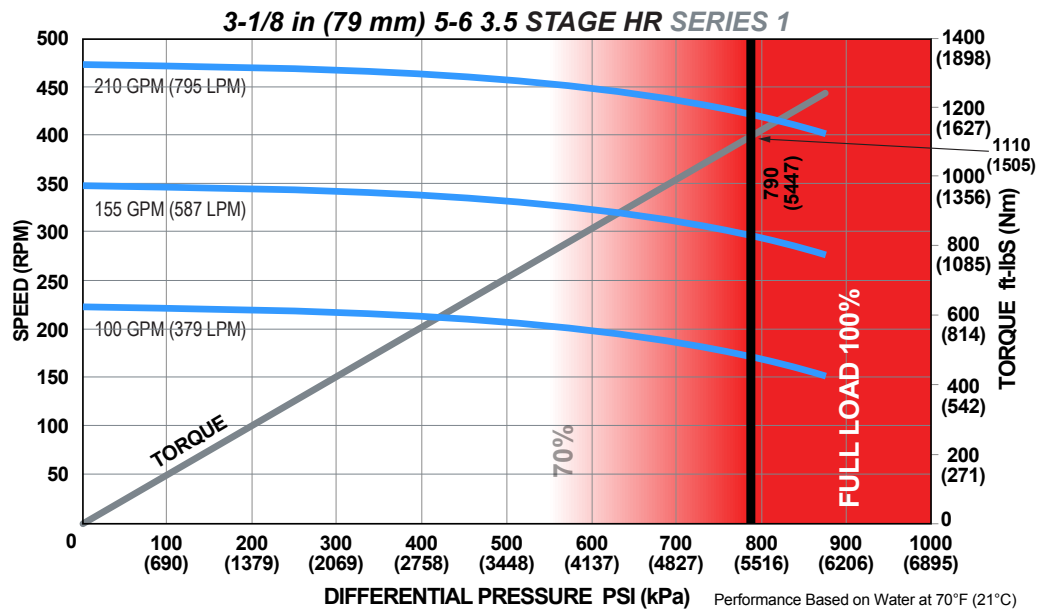




<b>Bit Size Range</b>		3-7/8 - 4-1/2 in	98 - 114 mm
<b>Bit Box Connection</b>		2-3/8 REGULAR	
<b>Bearing Load On Bottom</b>	<b>Dynamic</b>	28230 lbf	12560 daN
	<b>Static</b>	83280 lbf	37040 daN
<b>Bearing Load Off Bottom</b>	<b>Dynamic</b>	28230 lbf	12560 daN
	<b>Static</b>	83280 lbf	37040 daN
<b>Max. Overpull (for re-run)</b>		49100 lbf	22000 daN
<b>Absolute Overpull</b>		81800 lbf	36000 daN
<b>Adjustable Makeup Torque</b>		2500 ft-lbs	3390 Nm
<b>B = Bit to Bend</b>	<b>Adjustable</b>	42.9 in	1090 mm
	<b>Fixed</b>	34 in	864 mm
<b>C = Overall (Rotor Catch/Float Sub)</b>		170.3 in	4326 mm
<b>Weight</b>		273 lbs	123.8 kg

<b>Lobe Configuration</b>	5-6 Lobe 3.5 Stage HR	
<b>Displacement (NO LOAD)</b>	2.25 rev/gal	0.59 rev/l
<b>Max. Differential @ FULL LOAD</b>	790 psi	5,447 kPa
<b>Max. Torque</b>	1,110 ft-lbs	1,505 Nm
<b>Max. Power</b>	85 HP	63 kW

Flow Rate		Speed
GPM	LPM	RPM
100	379	150 - 230
155	587	275 - 350
210	795	400 - 470



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

### ADJUSTABLE BUILD RATE: 3-1/8 in (79 mm) 5-6 Lobe 3.5 Stage HR SERIES 1

Hole Size	SLICK			STABILIZED		
	3-7/8 (98 mm)	4-1/8 (105 mm)	4-1/2 (114 mm)	3-7/8 (98 mm)	4-1/8 (105 mm)	4-1/2 (114 mm)
<b>BEND ANGLE</b>	Degrees per 100 Feet (30 m)			Degrees per 100 Feet (30 m)		
0.39	1.22	-	-	-	-	-
0.78	6.29	4.35	1.43	-	-	-
1.15	11.11	9.16	6.24	-	-	-
1.50	15.66	13.71	10.79	-	-	-
1.83	19.95	18	15.09	-	-	-
2.12	23.72	21.77	18.85	-	-	-
2.38	27.1	25.15	22.23	-	-	-
2.60	29.95	28.01	25.09	-	-	-
2.77	32.16	30.22	27.3	-	-	-
2.90	33.85	31.91	28.99	-	-	-
2.97	34.76	32.82	29.9	-	-	-
3.00	35.15	33.21	30.29	-	-	-

### FBH BUILD RATE: 3-1/8 in (79 mm) 5-6 Lobe 3.5 Stage HR SERIES 1

Hole Size	SLICK			STABILIZED		
	3-7/8 (98 mm)	4-1/8 (105 mm)	4-1/2 (114 mm)	3-7/8 (98 mm)	4-1/8 (105 mm)	4-1/2 (114 mm)
<b>BEND ANGLE</b>	Degrees per 100 Feet (30 m)			Degrees per 100 Feet (30 m)		
1.25	11.53	9.14	5.56	-	-	-
1.50	14.78	12.39	8.81	-	-	-
1.75	18.03	15.64	12.06	-	-	-
2.00	21.28	18.89	15.31	-	-	-

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.