

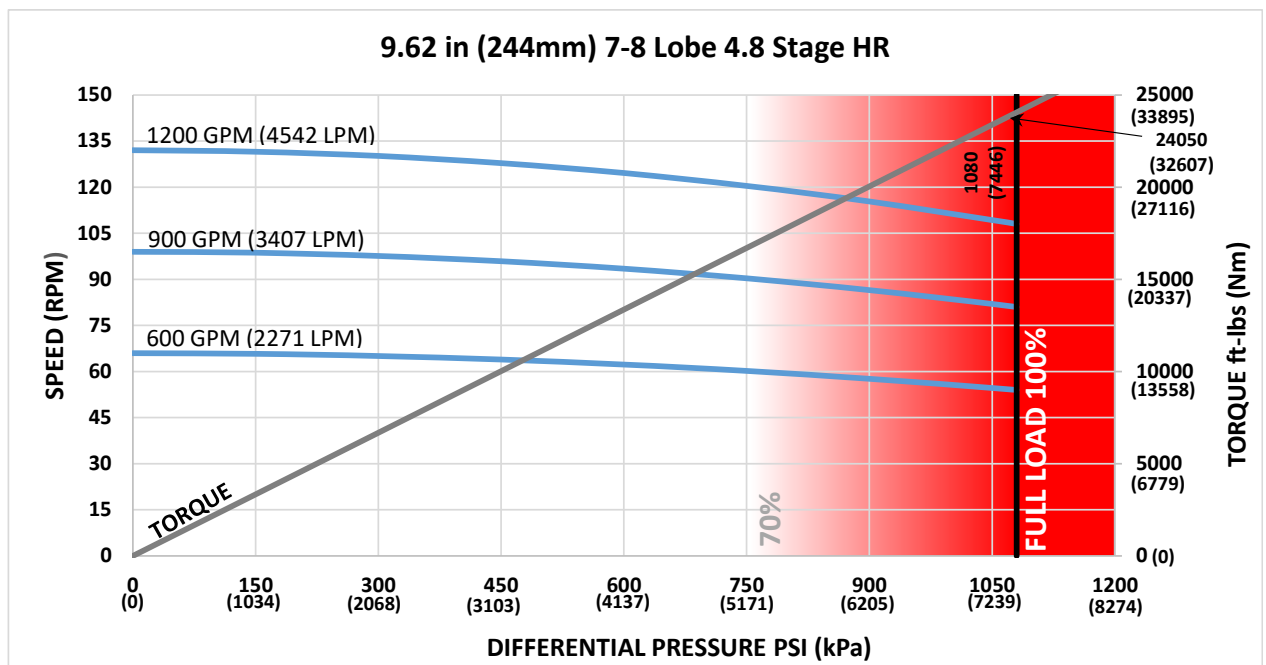
11.25 in (286mm) 7-8 Lobe 4.8 Stage HR SERIES 1 9-5/8" Rotor



Bit Size Range	16 - 36 in	406 - 914 mm
Bit Box Connection	7-5/8 REGULAR	
Dynamic Bearing Load On/Off Bottom	385750 lbf	171600 daN
Static Bearing Load On/Off Bottom	1376000 lbf	612100 daN
Max. Overpull (For Re-run)	784500 lbf	349000 daN
Absolute Overpull	1307500 lbf	581600 daN
Adjustable Makeup Torque	75000 ft-lbs	101700 Nm
Stab/Thread Protector Makeup Torque	50000 ft-lbs	67800 Nm
A = Bit to Stabilizer (Centre)	25.8 in	0.66 m
B = Bit to Bend	Adjustable 93.5 in	2.37 m
	Fixed N/A	N/A
C = Overall (With Dump Sub)	413.8 in	10.51 m
Weight	8858 lb	4018 kg

Lobe Configuration	7-8 Lobe 4.8 Stage HR	
Displacement (No Load)	0.11 rev/gal	0.03 rev/l
Max. Differential (Full Load)	1080 psi	7446 kPa
Max. Torque	24050 ft-lbs	32607 Nm
Max. Power	495 HP	369 kW

Flow Rate		Speed
GPM	LPM	RPM
600	2271	54 - 66
900	3407	81 - 99
1200	4542	108 - 132



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

ADJUSTABLE BUILD RATE

Hole Size	SLICK				STABILIZED			
	16 (406mm)	17-1/2 (445mm)	24 (610mm)	36 (914mm)	16 (406mm)	17-1/2 (445mm)	24 (610mm)	36 (914mm)
BEND ANGLE	Degrees per 100 Feet (30m)				Degrees per 100 Feet (30m)			
0.39	-	-	-	-	-	-	-	-
0.78	-	-	-	-	5.5	6.3	-	-
1.15	0.5	-	-	-	7.3	8.1	-	-
1.50	2.6	0.3	-	-	9.1	9.8	13.1	-
1.83	4.7	2.3	-	-	10.7	11.4	14.7	-
2.12	6.4	4.1	-	-	12.1	12.9	16.1	-
2.38	8.0	5.7	-	-	13.4	14.2	17.4	23.4
2.60	9.4	7.0	-	-	14.5	15.2	18.5	24.5
2.77	10.4	8.1	-	-	15.3	16.1	19.3	25.3
2.90	11.2	8.8	-	-	16.0	16.7	20.0	25.9
2.97	11.6	9.3	-	-	16.3	17.1	20.3	26.3
3.00	11.8	9.5	-	-	16.5	17.2	20.5	26.4

Note: Stabilizers are 1/8" undergauge

FBH BUILD RATE

Hole Size	SLICK				STABILIZED			
	16 (406mm)	17-1/2 (445mm)	24 (610mm)	36 (914mm)	16 (406mm)	17-1/2 (445mm)	24 (610mm)	36 (914mm)
BEND ANGLE	Degrees per 100 Feet (30m)				Degrees per 100 Feet (30m)			
1.25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1.50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1.75	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2.00	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2.25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2.50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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.

FISHING DIMENSIONS

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



EXTERNALS		USC	SI
END CAP	A	11.1	0.28
BEARING HOUSING	B	21.8	0.55
PISTON HOUSING	C	36.0	0.91
STABILIZER SHOULDER	D	49.4	1.25
KICK/FIXED HOUSING	E	65.9	1.67
BIT TO BEND (ADJUSTABLE)	F1	93.5	2.37
ADAPTOR HOUSING (ADJUSTABLE)	G1	101.8	2.59
BIT TO BEND (FIXED)	F2	--	--
ADAPTOR HOUSING (FIXED)	G2	--	--
STATOR START	H	124.8	3.17
STATOR END	I	371.3	9.43
OVERALL LENGTH	J	413.8	10.51
BIT BOX Ø	K	10.50	266.7
END CAP/BEARING HOUSING Ø	L	11.25	285.8
THREAD PROTECTOR Ø	M	12.25	311.2
PISTON HOUSING Ø	N	11.25	285.8
KICK/FIXED HOUSING Ø	O	11.25	285.8
PAD (ADJUSTABLE) Ø	P1	11.75	298.5
PAD (FIXED) Ø	P2	--	--
ADJUSTABLE MANDREL PIN Ø	Q	7.25	184.2
ADAPTOR HOUSING Ø	R	11.25	285.8
ADAPTOR PIN Ø	S	8.25	209.6
STATOR TUBE OUTER Ø	T	9.62	244.3
STATOR TUBE INNER Ø	U	7.88	200.2
ROTOR CATCH SUB BLADE Ø	V	11.50	292.1
ROTOR CATCH SUB Ø	W	11.25	285.8



INTERNALS		USC	SI
BIT BOX	A	10.2	0.26
THRUST SHOULDER	B	25.6	0.65
WASHPIPE START	C	32.3	0.82
HEX END	D	44.0	1.12
BEARING ASSEMBLY ADAPTOR	E	62.6	1.59
BAA CAP	F	81.2	2.06
ROTOR ADAPTOR CAP	G	114.6	2.91
ROTOR START	H	124.6	3.16
ROTOR END	I	359.1	9.12
CATCH STEM	J	382.1	9.71
BIT BOX Ø	K	10.50	266.7
MANDREL Ø	L	9.00	228.6
THRUST Ø	M	6.68	169.7
WASHPIPE LARGE Ø	N	8.50	215.9
WASHPIPE SMALL Ø	O	7.25	184.2
BEARING ASSEMBLY ADAPTOR Ø	P	8.31	211.1
DRIVESHAFT Ø	Q	3.89	98.8
ROTOR ADAPTOR Ø	R	7.10	180.3
ROTOR MAJOR DIA. Ø	S	6.43	163.3
ROTOR CATCH STEM Ø	T	4.38	111.3

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

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.