Abaco DRILLING TECHNOLOGIES

POWER SECTION

Model No: AT962785.7

Revised: 9/11/2019

Rotor Specification	
Overall Length	230.88 in.
Contour Length	222.00 in.
Major Diameter	6.373 in.
Eccentricity	0.354 in.
Head Diameter	5.500 in.
Thread Form	4.00 API FH
Weight	1651 lbs.
Material	17-4 PH[1]

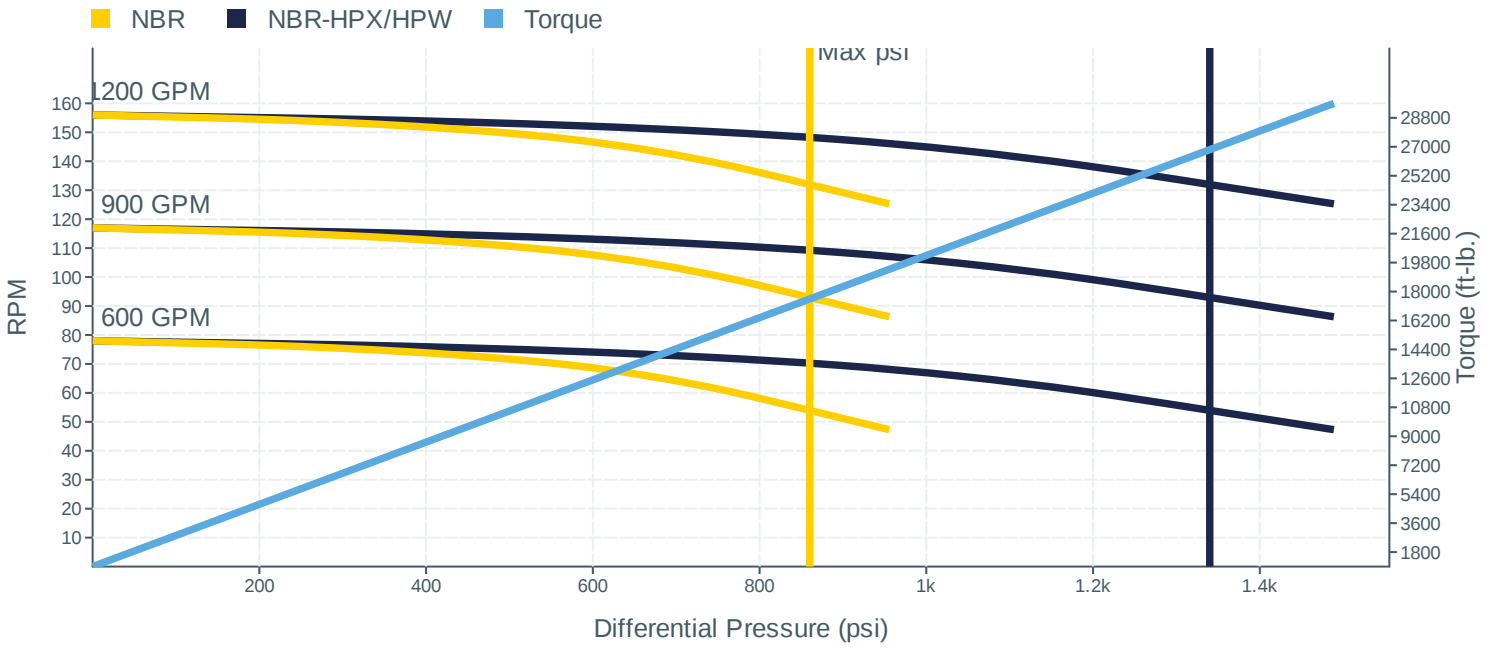
Stator Specification	
Overall Length	240.00 in.
Tube OD	9.63 in.
Tube ID	7.88 in.
Rubber Cutback Top/End	10/10 in.
Weight	1900 lbs.
Number of Stages	5.7 in.
Tube Material	4140/4142 Alloy Steel
Rubber Options	NBR, NBR-HPX/HPW

NBR (in.)		Fits (+Compression / -Loose)				
Size	Minor[2]	75°F	125°F	175°F	250°F	300°F[3]
0.5 US	--	--	--	--	--	--
STD	5.662	0.003	0.024	0.045	0.077	0.098
0.5 OS	--	--	--	--	--	--
1 OS	--	--	--	--	--	--
1.5 OS	--	--	--	--	--	--
2 OS	--	--	--	--	--	--
2.5 OS	--	--	--	--	--	--

NBR-HPX/HPW (in.)		Fits (+Compression / -Loose)				
Size	Minor[2]	75°F	125°F	175°F	250°F	300°F[3]
0.5 US	--	--	--	--	--	--
STD	5.660	0.005	0.026	0.047	0.079	0.100
0.5 OS	--	--	--	--	--	--
1 OS	--	--	--	--	--	--
1.5 OS	--	--	--	--	--	--
2 OS	--	--	--	--	--	--
2.5 OS	--	--	--	--	--	--

Performance Specifications	
Flow Range	600 - 1200 GPM
Speed Range	80 - 150 RPM
Torque Slope	19.35 ft-lb./psi
Rotation	0.130 rev/gal
Off Bottom Pressure	140 psi

Performance Details		
	NBR	NBR-HPX/HPW
Max Diff. Press.	860 psi	1340 psi
Stall Diff. Press.	1290 psi	2110 psi
Max Torque	16550 ft-lb.	25920 ft-lb.
Stall Torque	24820 ft-lb.	40830 ft-lb.



[1] Coating options of chrome or tungsten carbide are available [2] Vector Gauge Readings at Room Temp 75°F [3] BHCT Exceeding 275°F will void warranty for NBR (320°F for HPW/HPX)

Performance curves are based on new rotor and stator dimensions and for reference only. Actual performance may vary depending on fit and drilling conditions. The stall torque may exceed that specified for the connected components. Operating over the recommended limits may result in damage to the power section and connected components. Please visit abacodrilling.com for the latest specification revisions.

LOCATIONS

US	Headquarters	713 Northpark Central Dr., #400 Houston, TX 77073 - Tel: (281) 869-0700 - Fax: (281) 869-0701
US	Sales & Distribution	11308 West Interstate 20 East, Odessa, TX 79765 - Tel: (432) 248-1814
CANADA	Stator Manufacturing	6303-39th Street Leduc, Alberta T9E 0Z3 Canada - Tel: (780) 986-8947 - Fax: (780) 986-8842
UAE	Sales & Distribution	Building #57 Oilfield Supply Center, PO Box 191909, JAFZA, Dubai, UAE - Tel: +971 4 8708600

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Abaco DRILLING TECHNOLOGIES

POWER SECTION – METRIC

Model No: AT962785.7

Revised: 9/11/2019

Rotor Specification	
Overall Length	5864.4 mm
Contour Length	5638.8 mm
Major Diameter	161.90 mm
Eccentricity	9.00 mm
Head Diameter	139.70 mm
Thread Form	4.00 API FH
Weight	749 kgs
Material	17-4 PH[1]

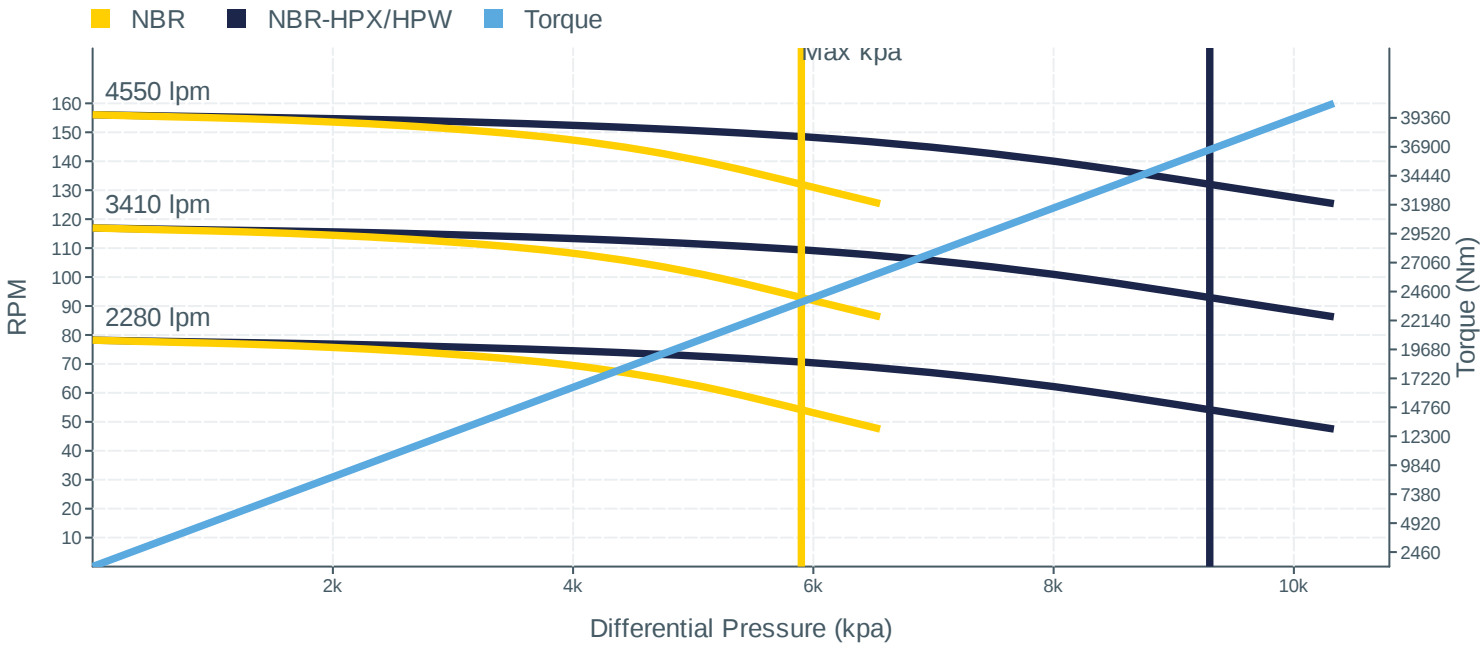
Stator Specification	
Overall Length	6096.0 mm
Tube OD	244.6 mm
Tube ID	200.2 mm
Rubber Cutback Top/End	254/254 mm
Weight	862 kgs
Number of Stages	5.7 mm
Tube Material	4140/4142 Alloy Steel
Rubber Options	NBR, NBR-HPX/HPW

NBR (mm)		Fits (+Compression / -Loose)				
Size	Minor[2]	24°C	52°C	79°C	121°C	149°C[3]
0.5 US	--	--	--	--	--	--
STD	143.81	0.08	0.61	1.14	1.96	2.49
0.5 OS	--	--	--	--	--	--
1 OS	--	--	--	--	--	--
1.5 OS	--	--	--	--	--	--
2 OS	--	--	--	--	--	--
2.5 OS	--	--	--	--	--	--

NBR-HPX/HPW (mm)		Fits (+Compression / -Loose)				
Size	Minor[2]	24°C	52°C	79°C	121°C	149°C[3]
0.5 US	--	--	--	--	--	--
STD	143.76	0.13	0.66	1.19	2.01	2.54
0.5 OS	--	--	--	--	--	--
1 OS	--	--	--	--	--	--
1.5 OS	--	--	--	--	--	--
2 OS	--	--	--	--	--	--
2.5 OS	--	--	--	--	--	--

Performance Specifications	
Flow Range	2280 - 4550 lpm
Speed Range	80 - 150 RPM
Torque Slope	3.81 Nm/kpa
Rotation	0.0343 rev/liter
Off Bottom Pressure	970 kpa

Performance Details		
	NBR	NBR-HPX/HPW
Max Diff. Press.	5900 kpa	9300 kpa
Stall Diff. Press.	8900 kpa	14600 kpa
Max Torque	22500 Nm	35200 Nm
Stall Torque	33700 Nm	55400 Nm



[1] Coating options of chrome or tungsten carbide are available [2] Vector Gauge Readings at Room Temp 25°C [3] BHCT Exceeding 135°C will void warranty for NBR (160°C for HPW/HPX)

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