

9½-in. Ultra XL and XL-HP

Equipped with high performance elastomer

Tool Specifications				
Length	36.1 ft	11.0 m		
Weight range	5,950-7,300 lb	2,700-3,315 kg		
Bit size range	12¼-in.	– 28 in.		
Top connection (optional)	6%-in. API Reg. box			
	(6%-in. H90, 7%-in. API Reg.)			
Bit connection (optional)	6⁵₅-in. API Reg. bo	x (7%-in. API Reg.)		
Max. slick OD at wear pad	10.41 in.	264.50 mm		
Max. slick OD at wear ring	10.65 in.	270.50 mm		
Deflection angle range of AKO	0° - 2.0°			

Power Section						
Lobe configuration	5/6					
Flow rate	530-1,200 gpm	2,000-4,550 lpm				
Speed	85-18	85-185 rpm				
Speed to flow ratio	0.15 rev/gal	0.04 rev/l				
Rotor nozzle	Υ	es				
Max. flow with nozzle	1,200 gpm	4,550 lpm				
No load pressure drop	260 psi	18 bar				
Temperature						
with standard or high	265°F	130°C				
performance elastomer						
with high temperature	320°F	160°C				
elastomer						

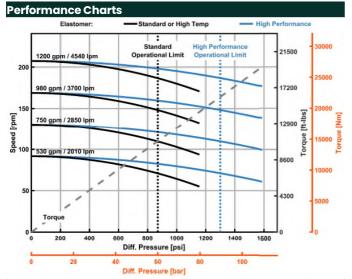
Performance Data							
	Standard or high temperature elastomer						
Operational limits							
Differential pressure	870 psi	60 bar					
Torque	11,000 ft-lb	14,500 Nm					
Power output	385 hp	285 kW					
Maximum operational							
Differential pressure	1,400 psi	96 bar					
Torque	17,500 ft-lb	23,500 Nm					
High performance elastom	ner						
Operational limits							
Differential pressure	1,300 psi	90 bar					
Torque	16,000 ft-lb	22,000 Nm					
Power output	575 hp	430 kW					
Maximum operational							
Differential pressure	1,750 psi	120 bar					
Torque	21,500 ft-lb	29,500 Nm					



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Bearing Section Operating	Specifications a	nd Limits
Ball Bearings		
WOB and backreaming	92 klb	410 kN
weight*		
Re-run overpull and set-	184 klb	820 kN
down weight*		
Ultimate overpull to failure*	1,650 klb	7,300 kN
Diamond Bearings		
WOB and backreaming	105 klb	475 kN
weight*		
Re-run overpull and set-	210 klb	950 kN
down weight*		
Ultimate overpull to failure*	1,650 klb	7,300 kN

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* Motor Performance specifications and related charts are derived from dynamometer testing performed with water at 68° (20°C) as the working fluid. Motor power sections were assembled for maximum performance and longevity in the testing environment on surface and are presented for comparative analysis and operational calculations. Motor performance specifications subject to change without notice. Actual downhole operational performance may vary due to temperature, fluid type and rotor/stator fit adjustments. If the motors, that have been assembled to compensate for downhole temperature effects, are surface tested, they may show reduced performance on surface and at low temperatures.

Build Up Rate Chart										
Hole	Hole		Slick	ck Partial			Full			
Size		AKO	BUR	RPM	AKO	BUR	RPM	AKO	BUR	RPM
	Al	0.6	1.4	116	0.25	1.8	134	0.25	0.7	135
.⊑	A2	1.6	6.8	60	1.4	6.9	60	1.5	6.0	60
16 in.* 12¼ in.	А3	1.8	7.9	30	1.5	7.3	30	1.6	6.4	30
	A4	2.0	8.9	0	2.0	9.5	0	2.0	8.1	0
	Al							0.25	0.4	136
*.	A2	N/A		N/A		1.6	6.1	60		
19	А3	A3 14/ A 14/	IN/ A		IN/ A					
	A4							2.0	7.7	0
	Al							0.25	0.4	135
17% in.*	A2		N/A		N/A		1.5	5.6	60	
77.	А3									
	A4						2.0	7.7	0	
* The blade OD of Stabilizers is ¼-in. undergauge										

A1: Minimum building AKO setting
A2: Recommended maximum rotable AKO setting

A3: Absolute maximum rotable AKO setting

A4: Absolute maximum oriented setting

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