



ARRIVAL
ENERGY SOLUTIONS

TYPHOON

BI-DIRECTIONAL REAMER



THE ULTIMATE HOLE REAMING SOLUTION

- Increase Wellbore Drift Diameter
- Lower Friction Than Competitor
- Reamers Reams High-Frequency Spiraling
- Eliminates Left and Right Whirl
- Decreases Trip Times
- Eliminates Key Seats, Ledges and Tortuosity
- Smooths Dog Legs
- Enables Better Casing Runs
- Improves Cement Bonding

FEATURES

- Progressive PDC Cutting Structure
- Lower friction Carbide Blade Coating
- No Bearings or Moving Parts
- Proprietary Blade Placement
- Flow Accelerator and Impeller
- 360° Blade Wrap Design

TECHNICAL SPECIFICATIONS

TYPHOON

Drill Pipe Size	3-1/2"	4"	4"	4"	4-1/2"
Standard Connection	3-1/2 API IF	XT-39	DS-40	XT-40	DS-42
Make-Up Torque	10,700 - 11,700 FT-LBS	17,000 - 20,000 FT-LBS	21,000 - 22,400 FT-LBS	25,000 - 27,700 FT-LBS	19,200 - 23,000 FT-LBS
Total Length	160.0" (4,064 mm)	160.0" (4,064 mm)	160.0" (4,064 mm)	160.0" (4,064 mm)	160.0" (4,064 mm)
Hole Size	5.875 - 6.125 in	5.875 - 6.125 in	6.000 - 6.125 in	6.000 - 6.125 in	6.750 in
A (Connection OD)	5.000" (127.0 mm)	5.250" (133.4 mm)	5.375" (136.5 mm)	5.250" (133.4 mm)	5.500" (139.7 mm)
Through Bore	2.375" (60.3 mm)	2.375" (60.3 mm)	2.375" (60.3 mm)	2.375" (60.3 mm)	2.375" (60.3 mm)

Drill Pipe Size	4-1/2"	5"	5"	5-1/2"	5-1/2"
Standard Connection	DELTA 425	4-1/2 IF (NC 50)	4-1/2 IF (NC 50)	CET-54	DELTA 544
Make-Up Torque	26,000 FT-LBS	21,000 - 23,000 FT-LBS	25,000 - 26,000 FT-LBS	49,600 FT-LBS	50,000 FT-LBS
Total Length	180.00" (4,572 mm)	172.75" (4,388 mm)	172.75" (4,388 mm)	199.25" (5,061 mm)	199.25" (5,061 mm)
Hole Size	6.750 in	7.875 in	8.500 - 8.750 in	8.500 - 8.750 in	8.500 - 8.750 in
A (Connection OD)	5.875" (149.2 mm)	6.270" (159.3 mm)	6.625" (168.3 mm)	6.645" (168.8 mm)	6.625" (168.3 mm)
Through Bore	2.375" (60.3 mm)	2.875" (73.0 mm)	2.875" (73.0 mm)	2.875" (73.0 mm)	2.875" (73.0 mm)

Make-up torque values are listed for reference only

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