



ARRIVAL
ENERGY SOLUTIONS



TYPHOON

Bi-Directional Reamer

The ULTIMATE Hole Reaming Solution

OVERVIEW

The Typhoon is designed to ream out sections of high frequency wellbore spiraling, sections of parallel misalignment, key seats, and dogleg tortuosity. The reamer does this by combining optimized placement of cutting structure and hole cleaning with a rotational reaming capability. The reamer body incorporates two sets of cutting structures into two integral blade stabilizers, one oriented in the downhole and the other oriented in the uphole direction. Polycrystalline diamond cutters (PDC) are brazed into a replaceable wedge block located in the ends of each of the stabilizer blades.

BENEFITS & FEATURES

- **Chevron Style Stabilizer Blades:** The two integral blade stabilizers have a combination left hand/ right hand blade wrapping to provide 360° support around the circumference of the reamer and provides low torque characteristics.
- **Cuttings Agitation and Flow Accelerator:** Between the two stabilizers, an impellor and a contoured 'bulb' (flow accelerator) agitate cuttings on the low side of the borehole to mix the cuttings in with the drilling mud which aids in hole cleaning and cuttings mobilization.
- **Cutting Structure:** Fixed cutters with no moving parts or bearings mean that there is less risk in having a downhole failure.
- **Optimized Stabilizer Blade Diameter and Length:** The outer diameter of the stabilizer blade and the distance between the uphole and downhole PDC cutters was specifically chosen to match the dimensions of a packer element; demonstrating that the reamer will go through the hole proves that there will be less problems running the packer into the same hole.

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TYPHOON Technical Specifications

Tool Name	Tool Size	Hole Size	Through Bore	Total Length
T5M	5.600" (142.24mm)	149 to 152mm - 6.00 to 6.25"	2.375" (60.3mm)	187" (4,750mm)
T5	5.813" (147.65mm)	149 to 152mm - 6.00 to 6.25"	2.375" (60.3mm)	182" (4,623mm)
T6	6.000" (152.40mm)	159 to 171mm - 6.25 to 6.75"	2.375" (60.3mm)	160" (4,064mm)
T67M	6.250" (158.75mm)	171mm - 6.75"	2.375" (60.3mm)	180" (4,572mm)
T67	6.375" (161.92mm)	171mm - 6.75"	2.375" (60.3mm)	186" (4,724mm)
T7	7.500" (190.50mm)	200mm - 7.87"	2.875" (73.0mm)	172" (4,369mm)
T81M	7.875" (200.03mm)	216 to 222mm - 8.50" to 8.75"	3.250" (82.6mm)	204" (5,187mm)
T81	8.125" (206.37mm)	216 to 222mm - 8.50" to 8.75"	2.875" (73.0mm)	199" (5,055mm)
T83M	8.375" (212.72mm)	216 to 222mm - 8.50" to 8.75"	3.000" (76.2mm)	173" (4,394mm)
T117	11.750" (298.45mm)	311mm - 12.25"	2.813" (71.5mm)	218" (5,537mm)
T12	12.000" (304.80mm)	311mm - 12.25"	3.250" (82.6mm)	209" (5,309mm)

Connection Type As Per Customer Requirements

