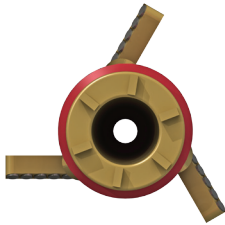


TECHNICAL DATA SHEET

DDT UNDERREAMER

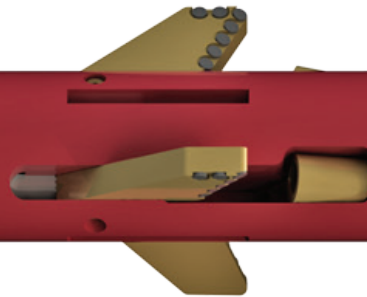
TECHNICAL SUMMARY

The Drilling Drag Type Underreamer is designed for opening larger diameter boreholes with a smaller OD tool. The tool is capable of being placed anywhere in the drill string and provides flow through the tool.



FEATURES

- Cutter blades, when activated, create a scissor action to open gauge hole
- Hydraulic power forces the piston and actuator down creating a scissor action on the cutters to open gauge hole
- Operates with minimal moving parts
- Machined from heat-treated steel bar giving it exceptional strength
- Jet nozzles in top sub allow for increased GPM through the tool
- Tool is activated by pump pressure. In scenarios when tool needs to be closed, (i.e. drilling out shoe track) the tool can be fitted with shear pins to ensure closure until activation is needed
- Cutting Structure Options: PDC or HOC's ADD Cutter



HOC
DDT102017

TECHNICAL SPECIFICATIONS AND OPERATING PARAMETERS

Tool Series	DDT 375	DDT 425	DDT 575	DDT 725	DDT 825	DDT 950	DDT 1175
Opening Size Range (in)	4-3/4 - 7-1/2	5-3/8 - 8-3/4	7 - 12-1/4	8-3/4 - 14-3/4	9-1/4 - 15-1/2	10-5/8 - 17-1/2	13-1/2 - 24
Body O.D. (in)	3.75	4.25	5.75	7.25	8.00	9.50	11.75
Minimum Pilot Hole (in)	4.00	4.50	6.00	7.625	8.50	9.875	12.00
Top Connection (Pin)	2-3/8" Reg	2-7/8" Reg	3-1/2" Reg	4-1/2" Reg	4-1/2" Reg	6-5/8" Reg	6-5/8" Reg 7-5/8" Reg
Bottom Connection (Box)	2-3/8" Reg	2-7/8" Reg	3-1/2" Reg	4-1/2" Reg	4-1/2" Reg	6-5/8" Reg	6-5/8" Reg 7-5/8" Reg
Smallest Internal Diameter (in)	.625	.750	1.00	1.25	1.25	1.75	2.25
Max Flow Rate (GPM)*	150	300	550	650	650	1000	1,400
Max Temperature (°F)**	250	250	250	250	250	250	250
Recommended Rotary Speed (RPM)	70 - 100	70 - 110	70 - 110	70 - 110	70 - 110	60 - 100	50 - 100
Max Drilling Weight (lbs)	3,000	5,000	7,000	9,000	10,000	11,000	15,000

* Flow rates may be increased for hole cleaning and stability by utilizing a jetted top sub or a jet sub above the tool.

** High temperature seals are available upon request.



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