

PRODUCT DATA SHEET

PDC REAMERS FOR HDD

TERRA REAMER SERIES

TERRA ROCK BIT



TERRA HDD Reamers are engineered with a precision dual taper and spiral layout to centralize the tool, stabilize cutting forces, and seamlessly enlarge pilot holes to final bore diameter in fewer passes.

TERRA PDC Reamers are manufactured in push or pull body configuration, can be used both horizontally and vertically

TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION
Bit Type	PDC Reamer
Bit Size	6" - 36"
Blade Count	5 & 6
Cutter Size / Count	13 mm & 16 mm
IADC Code	Varies by Setup
Pin Connection	API: 2 3/8", 3 1/2", 4 1/2"; IF: 2 7/8" & 3 1/2"; DS55 Box
Circulation	Jet Nozzle
Body Material	Premium Steel Body
Weight	Varies by Diameter

OPERATION SUGGESTIONS

Weight On Bit	2 - 3,000 lbs
Rotary Speed	60-120 r/min

RECOMMENDED FORMATIONS

Small Utility & Service Shots:

Perfectly suited for smaller 5.5" to 6" bore diameter installations.

Standard Construction Water/Gas Mains:

Optimized configuration for mid-range 8" to 14" projects.

Heavy Civil Mining & Oil/Gas Lines:

Built heavy-duty to handle large-diameter 16" to 36"+ infrastructure pipelines.

ADVANCED SPECS

5.5" to 6" Class 5 Blades	2-3/8" API Reg
8" to 10" Class 5 Blades	4-1/2" IF
12" to 14" Class 5 Blades	6-5/8" API Reg
16" to 36"+ Class 6 Blades	6-5/8" to 7-5/8" API

KEY PERFORMANCE FEATURES

- ✓ **Advanced Spiral Layout:**
Engineered with a specialized spiral blade configuration that actively eliminates downhole chatter and reduces fluctuating torque.
- ✓ **Precision Dual Taper:**
Centralizes the reamer perfectly inside the pilot hole to ensure a symmetrical cut and equalize cutting forces from side to side.
- ✓ **High Compressive Strength:**
Premium 13mm & 16mm cutters deliver unmatched penetration rates in rocky, abrasive formations up to 25,000 psi.
- ✓ **High Body Integrity:**
Heavy-duty steel body architecture provides maximum durability, preventing structural failure under severe rotational stresses.
- ✓ **Completely Rebuildable Design:**
Structural matrix engineered for multiple economical factory rebuild cycles to significantly lower your total long-term tooling costs.
- ✓ **Streamlined Junk Slot Geometry:**
Engineered with deep, open fluid channels to ensure maximum mud flow, keeping the cutting face clean and completely preventing bit balling in sticky clay.
- ✓ **Maximum Bore Integrity:**
Delivers smooth, concentric stabilization during the back-reaming pass to actively minimize bore hole elongation and prevent over-cutting.



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TRUSTED IN THE FIELD.



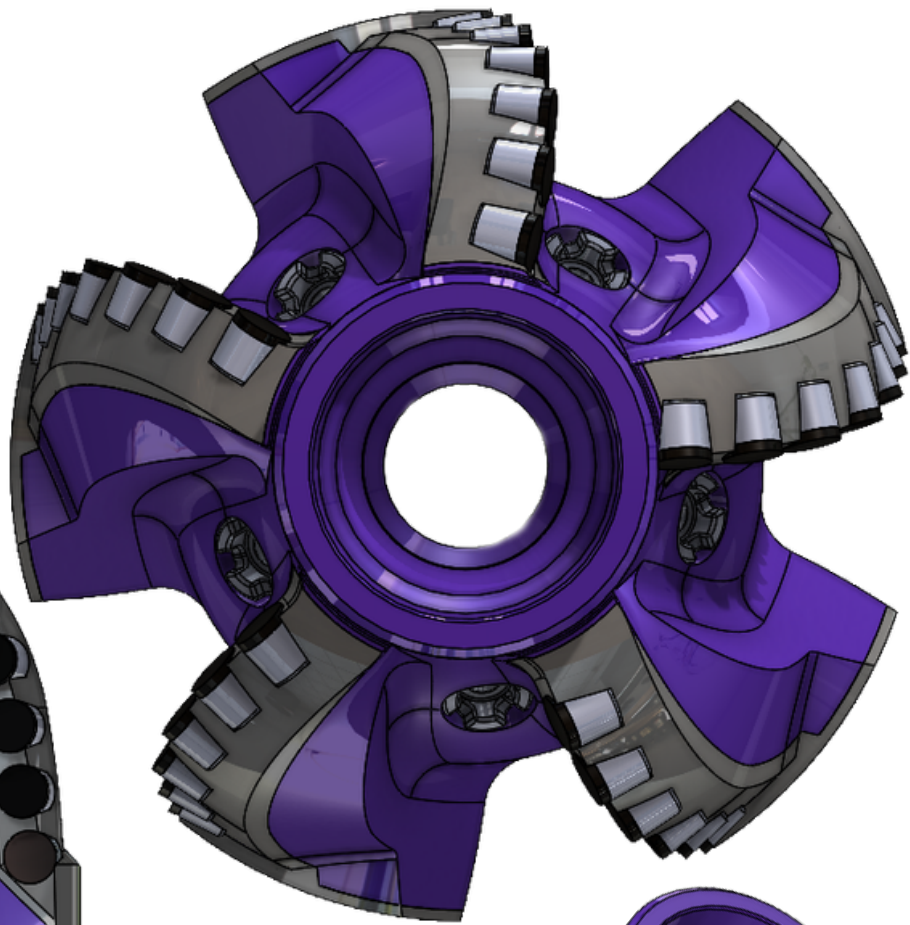
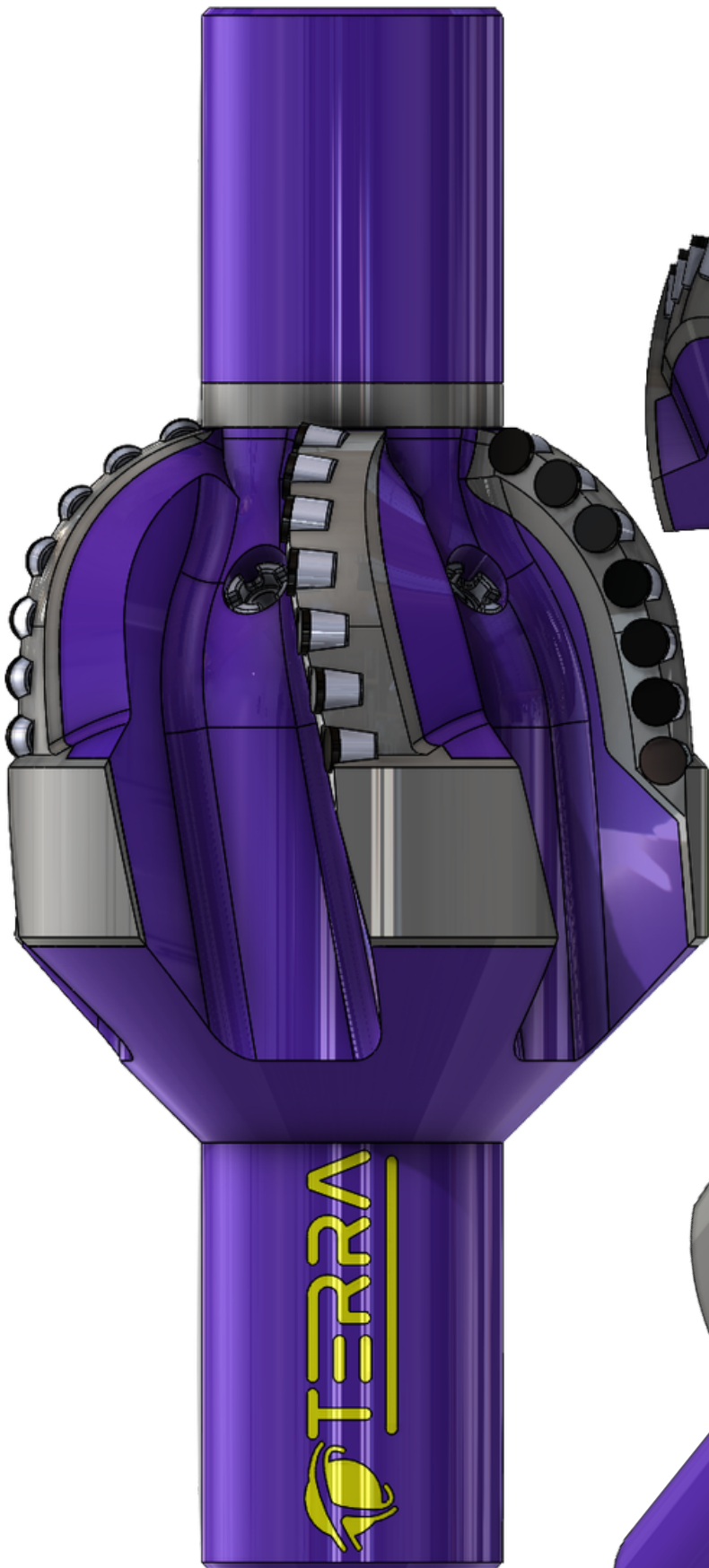
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Technical data, field support, and custom bit design options.



MODEL ANALYSIS: PDC REAMERS FOR HDD

5-BLADE SERIES | 3D VIEW SCHEMATICS



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MODEL ANALYSIS: PDC REAMERS FOR HDD
6-BLADE SERIES | 3D VIEW SCHEMATICS



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