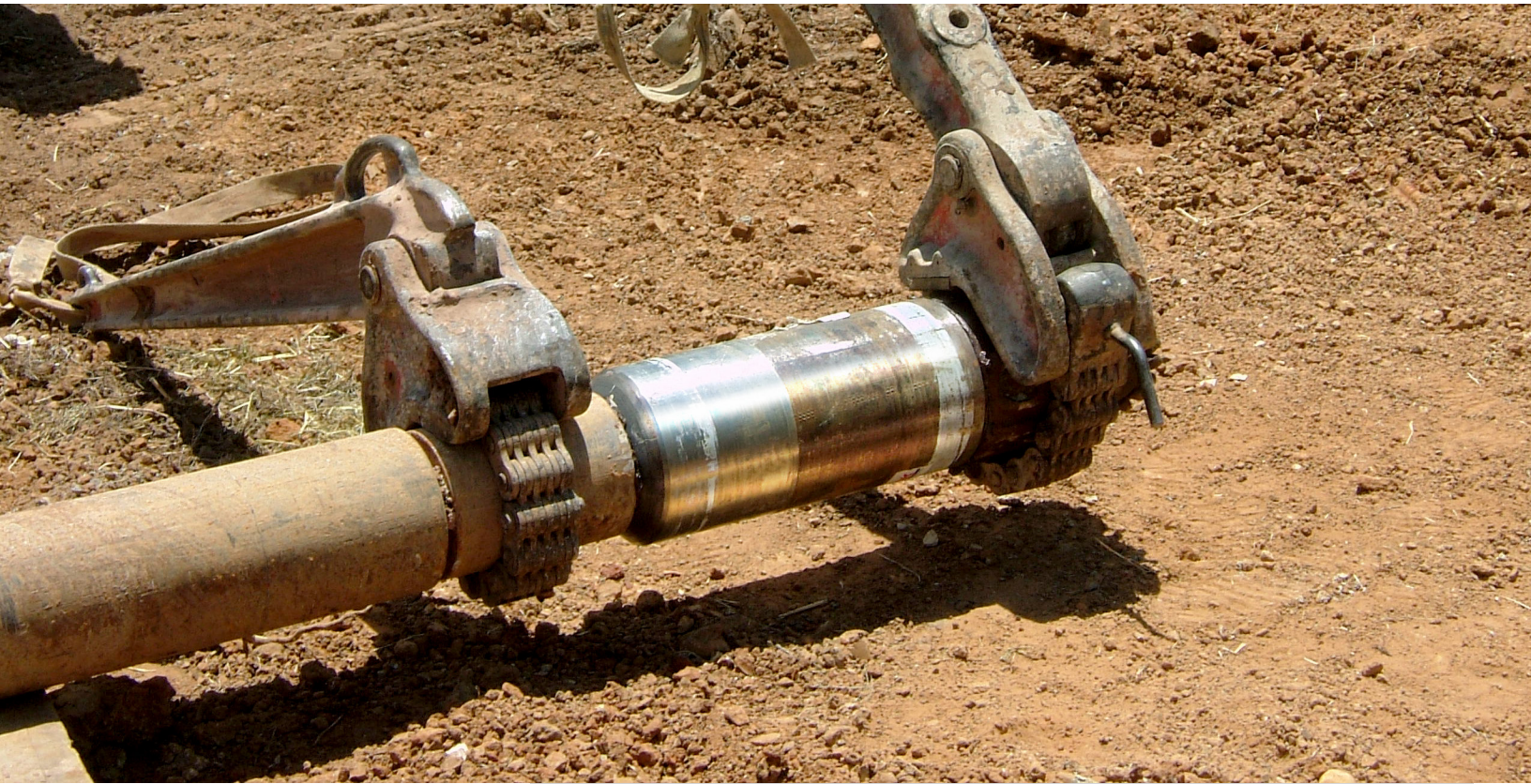




# At-Bit Inclination Assembly



## Immediate Feedback. Precise Control.

When it needs to be right the first time, it matters where you measure. The ParaTrack™ At-Bit Inclination Assembly (ABIA) is the only at-bit guidance tool designed for horizontal directional drilling (HDD).

Measuring inclination directly at the bit, it delivers the precise control you need to keep your boreholes on plan — and your projects on track.

## Improved Steering Response

At-bit measurement delivers tight elevation control in the face of unpredictable build and drop rates. The ABIA's compact design minimizes effect on steering control and wear on tooling. And with wireless, electromagnetic communication to the ParaTrack Steering Tool, your operators get immediate feedback for real-time control.

## Smoother Boreholes — The First Time

Minimize undulation and time spent shaving or reaming to meet radius specifications. That means reduced pulling forces required to install your final product, and faster project timelines.

## Long-Lasting, Reliable Performance

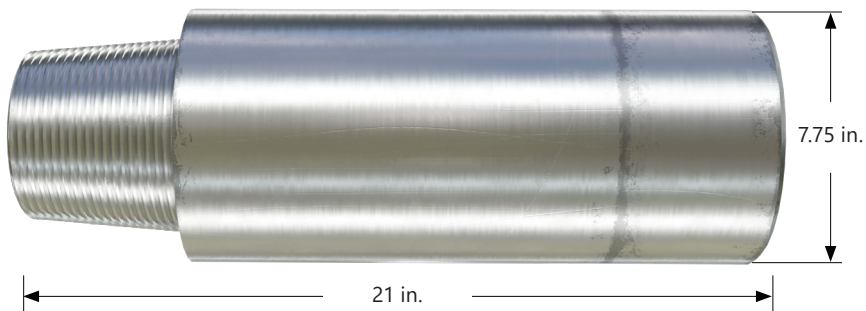
Count on high-powered performance — even in hard rock — with the ABIA's robust construction. And with field-rechargeable batteries designed for weeks of use, it has the power to outlast the longest job.

The ABIA is part of the complete ParaTrack line of HDD guidance tools, available exclusively from your InRock or Prime Horizontal dealer. Explore how it all comes together at [vectormagnetics.com](https://vectormagnetics.com).



For technical specifications and purchasing information visit:  
[vectormagnetics.com/ABIA](https://vectormagnetics.com/ABIA)

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## Specifications

Outside Diameter:	7.75 in	19.68 cm	
Sub Makeup Length:	21 in	53.34 cm	
Additional Bit-box Length: (when integrated with mud motor)	8 in	20.32 cm	
Temperature Rating:	4 to 140 °F	-20 to 60 °C	
Pressure Rating:	6,000 psi	400 bar	
Inclination Range:	0-180°		
Connection:	6-5/8 in API REG pin x 6-5/8 in REG box		
Survey Time:	30 s		
Battery Life:	Number of shots: > 3,000 Downhole Standby: > 50 days Charging Time: 12 h		

## Precision

Inclination:	+/- 0.15° (full roll)
	+/- 0.05° (single toolface)

### Manufactured by:



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