

# PARATRACK



**INROCK<sup>®</sup>**

MASTERING HDD GUIDANCE TECHNOLOGY

## GUIDANCE SYSTEM PRODUCTS

**PARATRACK** HDD Guidance technology, developed and manufactured by Vector Magnetics', is rapidly being adopted as the HDD industry's recognized standard for underground pilot bore guidance. Paratrack's unique multiple source magnetic tracking capabilities continue to expand HDD installation applications. **Inrock®** is Vector Magnetics' authorized distributor and HDD partner, providing comprehensive Paratrack equipment sales, rental, service and support worldwide.

The suite of Paratrack systems offers maximum flexibility for providing a secondary means of verifying borehole location. Magnetic fields are induced into the ground by energized wireline coils or BTS which overcomes localized interference enabling reliable, accurate tracking of the pilot bore. Used in conjunction with the Vector Magnetics Steering Tool, Paratrack sets the HDD industry standard by providing accurate guidance of the pilot bore even with magnetic interference. Lateral and vertical accuracy measures 0.2 ft/10ft of borehole depth (2%).

Paratrack systems allows the user the flexibility to construct coils with the greatest variety of configurations and the choice of DC and AC current sources.

**Paratrack 1** - (DC current technology) A basic surface tracking system utilizing a DC current within closed loop coils. This feature is compatible with the majority of first generation steering tools presently in the HDD market.

**Paratrack 2** - (AC current technology) HDD's most advanced, multiple feature guidance system utilizes proprietary Vector Magnetics technology in a comprehensive array of superior tracking platforms. This new technology permits continuous, creative technical solutions to challenging HDD guidance applications. The array of guidance features now available include:

- **Single Guide Wire Tracking** - Unique to AC current technology. Surface or underground tracking, with or without return wire.
- **Close Loop Guide Wire Tracking** - Superior in performance to DC close loop systems. Ac close loop technology provides the most flexible, reliable, accurate pilot bore positioning data available.
- **Parallel Tracking** - Precision underground tracking of adjacent parallel bores. The close proximity of the guide wire optimizes shot reliability and provides tracking coverage over the total length of the pilot bore.



# TRACK

- **Intersections** - Precision underground tracking of two separate or multiple pilot holes approaching from varying directions for the purpose of joining these together. Paratrack 2, unique intersect technology enables HDD installations of much greater length than previously considered.
- **Beacon Tracking System** - Precision proprietary WIRELESS surface underground tracking platform enables combination wire/wireless or totally wireless HDD installations where previously wire guided installations were difficult or not feasible such as under rivers, bays, highways, canals and outfalls.
- **Pressure** - PWD - Pressure While Drilling – Measures annular and drill pipe pressures, assisting in monitoring of drill string integrity, proper hole cleaning and prevention of borehole “frac-out”.

The **PARATRACK** System allows the HDD contractor to pilot bore with **confidence** when magnetic interference is encountered along the bore path.



## TYPICAL PERFORMANCE SUMMARY

### Equipment Required:

- Paratrack 2 systems require the Paratrack 2 Steering Tool, Drillers Console Interface, Power Guide Supply and Computer
- Wire recommended to construct surface or down hole coils is 10 to 14 gauge wire
- AC Power Source - Computer Power Guide

### Accuracy:

- Paratrack is accurate to +/- 2% of the vertical depth of the borehole

### Depth Capabilities:

- Paratrack is capable of working to depths in excess of 1000 feet.

### Operations of the System:

Paratrack is the most advanced tracking systems in the HDD market allowing creative guidance solutions utilizing several magnetic sources and methods for tracking



# HDD PRODUCTS

- DRILL BITS
- JETTING ASSEMBLIES
- NON-MAG DRILL COLLARS
- DIRECTIONAL DRILLING MOTORS
- PARATRACK<sup>®</sup> GUIDANCE SYSTEMS
- WIRELINE CONSUMABLES
- DIGITRACK<sup>®</sup> SYSTEMS
- HDX<sup>®</sup> HARD ROCK BITS & REAMERS
- ROCK REAMERS
- HOLE OPENERS
- CENTRALIZERS
- FLY CUTTERS & BARREL REAMERS
- DCD PULL BACK SWIVELS
- SAFETY TONGS<sup>™</sup>
- DRILL PIPE (4-1/2" IF TO 6-5/8" FH)
- SONDE HOUSINGS
- CROSSOVER / ORIENTATION SUBS
- DRILLING FLUIDS
- SMALL RIG ROCK TOOLING
- GEOTECHNICAL ANALYSIS
- PROJECT PLANNING & FEASIBILITY
- DRILLING TOOL SELECTION
- TIME/COST ESTIMATES
- FIELD SUPERVISION & TRAINING
- GUIDANCE TRAINING CERTIFICATION
- DRIL DATA<sup>™</sup> MONITORING
- BMR REAMING PRODUCT LINES
- XTR<sup>™</sup> REAMING PRODUCT LINES

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