Cabled Boretrak®
MAGNETIC BOREHOLE DEVIATION SYSTEM

world leading laser measurement technology
MDL’s Cabled Boretrak® is a cost effective borehole deviation surveying system that has been designed to be compact, lightweight and above all highly portable.

MDL has designed the Cabled Boretrak® as a means of auditing the results of drilling activity quickly and accurately. Incorrect setting of drill angles, borehole wander and drilling to inaccurate depths results in service problems, particularly in the mining, quarrying and construction industries.

The system features a rugged probe, which contains a dual axis tilt sensor and digital compass, to calculate borehole deviation from the collar position at fixed intervals. Data is transmitted to the surface via a heavy duty cable and recorded in the MDL CDU logger.

The CDU can be handheld or attached to a MDL lightweight tripod for ease of use.

The Boretrak® system is supplied with a weighted extension piece, which can be filled with lead shot or sand, to ballast the system for use in deep or flooded holes.

MDL’s Boretrak® 3D software is used to process the data and produce a hard copy of the results. Holes can be displayed individually or in any combination to determine hole separations.

Data can be easily integrated into a wide range of software packages that includes MDL’s comprehensive rock profiling package, Face 3D.

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<th>Applications</th>
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<tr>
<td>• Cast blasting</td>
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<td>• Exploration drilling</td>
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<td>• Foundation drilling</td>
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<td>• Engineering works</td>
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<td>• Quarry blasting</td>
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<td>• Underground mining</td>
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<td>• Pre-split blasting</td>
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<td>• Dam pinning</td>
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<td>• Piling</td>
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<th>Benefits</th>
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<tr>
<td>• Improved technology therefore improved productivity</td>
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<td>• Accurate borehole deviation therefore more accurate burden calculations</td>
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<td>• More efficient blasting</td>
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<td>• Better fragmentation</td>
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<td>• Light and portable</td>
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<td>• Simple to use</td>
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<td>• Very little training required</td>
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Cabled Boretrak® showing complete system including CDU logger

Cabled Boretrak® being lowered by hand into borehole

Boretrak® 3D front elevation, showing minimum and maximum separations

Boretrak® 3D software showing 3D image of all measured holes
Technical Specifications

- **Sensor: Dual Axis**
  - Inclinometer: Range: +/- 40° (from vertical)
    - Accuracy: 0.2°
    - Resolution: 0.1°
  - Compass: Range: 0 - 360°
    - Accuracy: +/-1° typically when vertical
    - Resolution: 0.1°

- **CDU**
  - Graphics (LCD): 128 x 64
  - Memory: 64 k
  - Data download: RS232, selectable baud rate (1200 to 19200)
  - Power: 3 x ‘C’ Cells
  - Dimensions of CDU (L x D x W): 208 mm x 110 mm x 48 mm / (8.19 in x 4.33 in x 1.89 in)
  - Weight: 0.9 kg / 1.98 lbs

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- **Environmental**
  - Probe: depth rated to 100 m / 328 ft (flooded hole)
  - CDU: IP66
  - Operating temperature: -10 °C to +45 °C / 14 °F to 113 °F
  - Storage temperature: -20 °C to +50 °C / -4 °F to 122 °F

For more information on Cabled Boretrak®:

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