

Applications

- Unconventional and conventional drilling
- Directional and horizontal drilling
- Geosteering and bed-boundary detection
- Custom and SAGD drilling

Benefits

- Minimizes costs (up front and long-term maintenance compared to dual-telemetry tools)
- Increases reliability, accuracy, flexibility and operational efficiency
- Improves decision making with accurate borehole compensated measurements
- Decreases trips with a long-lasting single battery pack (expandable)
- Saves time with high-speed memory download: <15 min.

Features

- High-operating temperature: 175°C (347°F)
- Pre-assembled combined tool with MWD-LWD capabilities
- 400kHz, 2MHz, 8 curves
- Sizes: 4 ¾, 6 ½, 8.0 in.
- Short MWD system w/ gamma
- High-speed telemetry available

HPR Integrated MWD-LWD System

Resistivity with Mud Pulse Telemetry

By harnessing the benefits of Bench Tree's high-precision resistivity tool (HPR) and Short MWD system with gamma, the integrated system provides operators with precise and dependable directional and formation evaluation information to maximize drilling efficiency and pay zone exposure in directional and horizontal wells.

The HPR Integrated MWD-LWD system streamlines operations by shipping the tool pre-assembled, with only one battery connection to be made at the rig site.

Real Time in a Compact, Efficient, Modular Assembly

The Bench Tree solution's high-speed mud pulse eliminates the need for expensive EM and dual-telemetry systems with limited depth capability. It allows directional, drilling dynamics, resistivity and gamma data to be transmitted in a shorter period of time, saving operators time and money.

Dynamic sequencing also enables faster drilling by switching from providing tool faces to more gamma and continuous inclination data while rotating.

The directional stability and repeatability of the integrated system is unmatched in the industry, since Bench Tree's proven magnetometers, accelerometers and high-temperature electronics are used in the system.

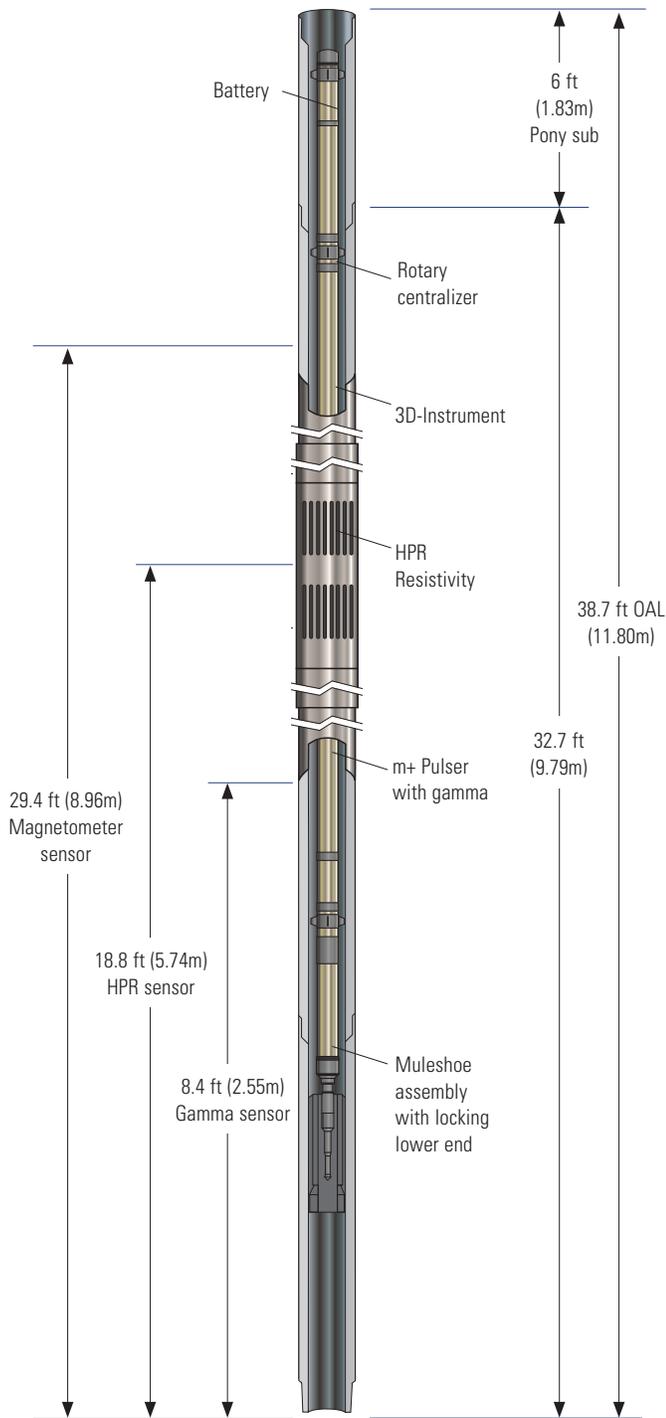
Reliability is improved by attaching the 3D-I drilling and dynamics instrument to the top of the HPR resistivity tool, and the m+ Pulser and gamma section to the bottom. The system also has 95% fewer field-mated connectors and less wiring than legacy configurations.

The HPR Integrated MWD-LWD system comes complete with everything needed for faster and more accurate drilling, including Bench Tree's MWD-LWD surface system and HPR surface interface kit. Full training and support is also offered to help ensure success.

To improve your reliability, accuracy and formation evaluation for greater drilling efficiency, contact the Bench Tree sales team for assistance.



HPR Integrated MWD-LWD System



Specifications for the individual HPR and Short MWD systems can be found on their respective data sheets

Notes:

- Diameter of the HPR integrated MWD-LWD system is based on the size of the HPR resistivity tool assembled the with Short MWD system
- HPR resistivity sizes: 4 ¾, 6 ½, 8.0 in.