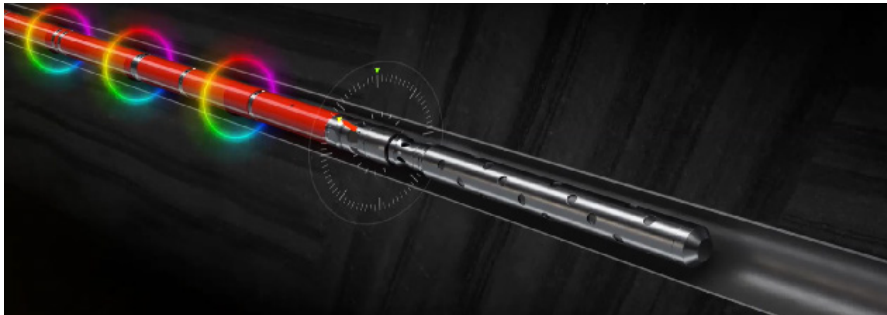


SPECTRUM® e-ORIENTER

ELECTRIC ORIENTING TOOL

OVERVIEW

The SPECTRUM® e-ORIENTER offers a new level of precision for downhole orientation. Integration with SPECTRUM® enables real-time interface with the tools downhole. Direct control of the orientation of the lower BHA ensures operational precision for applications such as oriented perforating, lateral entry, whipstock alignment, and more.



Direct orientation control, enhanced by real-time telemetry

The sensor tools incorporated into SPECTRUM® augment the operation by providing depth correlation with gamma ray and CCL, as well as the tool face sensor to provide a downhole point of reference for accurate orientation.



Enables fluid circulation to the lower tool assembly

Flow-through capability enables circulation to oriented tool assemblies to support combined applications in a single run, such as wellbore cleaning, fluid displacement, spotting chemicals, quenching, and circulating balls to the BHA or pressure activation.

APPLICATIONS

- » Oriented perforating
- » Whipstock alignment
- » Lateral entry
- » Targeted fluid placement

FEATURES

- » Full circulation to lower BHA
- » Plug & Play integration with SPECTRUM®
- » Real-time time telemetry and continuous power supply via cable link
- » Precise control enables movement to within 1 degree of incremental rotation
- » Intuitive user interface for reporting and control of downhole orientation

BENEFITS

- » Real-time electronic control of BHA orientation
- » Precise alignment enabled by integrated tool-face sensor
- » Depth control with Gamma Ray and CCL
- » Ease of use with multiple BHA configurations



Plug & play integration with the SPECTRUM® tool system enables efficient make-up on surface without the need for complex splicing operations; simply connect and go. The SPECTRUM® 360 camera can be seamlessly integrated into the tool assembly, should the need for downhole visualization be factored into the application. A standard 1.5" AMMT pin at the lower end of the BHA offers a versatile connection point for a wide array of lower tool assemblies for orientation downhole.

SPECIFICATIONS

Item	Specificaiton
Pressure	15K psi Working
Temperature	176°C (350°F)
Outer Diameter (OD)	3-3/8" (85.73mm) or 2-1/4" (57.15mm)
Max Flow Rate Clean Fluid	2.2 bpm
Downhole End Thread Connection	1.5" AMMT Pin

For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com

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