

D-RIB™ Segmented Radial Bond Tool

Titan Division | Instruments



Features

- Wellbore and internal temperature sensors and digital CCL
- Continuous updates on downhole cable head voltage and other important operating conditions
- 0.1-ft (0.03-m) sample resolution at logging speed of 120 ft /min (36.6 m/min)
- Compatible with Warrior™ acquisition system
- Full sonic waveform digitization and transmission
- 360° cement map
- All sonic receiver data sampled and transmitted with each transmitter firing
- Wireline power can be over-voltage or reversed to operate a caliper or other tools
- Compatible with all Hunting analog pulse or telemetry CCLs, gamma rays, neutrons and CNT tools
- Simultaneous operation with Hunting or select third-party multi-arm calipers, gamma rays and magnetic inspection tools
- 20-frames-per-second of sonic and caliper data when operated in caliper compatible mode

Benefits

- Ease of operation
- Unique canister construction allows for efficient and easy maintenance
- Minimizes rig time when running tools in combinations

The Hunting D-RIB tool combines proven multiple receiver cement bond evaluation technology with a precision high-speed data acquisition and telemetry system.

The amplitude display of each directional radial receiver forms a detailed 360° cement map that can identify micro fractures in cemented annulus and channeling in the cement, and voids and other bonding irregularities between the casing and the wellbore. It can also evaluate cement-to-formation coupling and stuck pipe, and locate the top of cement and free pipe. The 3-ft (.91-m) receiver provides quality information on casing-to-cement bonding. The 5-ft (1.5-m) receiver confirms data from the 3-ft (.91-m) receiver and shows formation bonding by a full VDL wave display.

Specifications

D-RIB Part Number	2-3/4 in. (70 mm) 8012-2755GPE237-03-00-JS
Measurements	
Vertical Resolution (in.)[mm]	18 [45.72] RIB • 36 [91.44] CBL and 60 [152.4] VDL
Azimuthal Resolution	45° Cement map
Logging Speed (ft/min)[m/min]	Recommended Maximum: 120 [36.6]
Mud Type • Weight	Must be liquid • No limitations
Offset from Bottom Shoulder Temperature • Transmitter RIB 3ft Crystal • 5ft Crystal (in.)[cm]	76.5 [194.3] • 70.0 [177.8] 61 [154.9] 52.0 [132.1] • 40.0 [101.6]
Environmental	
Temperature rating (°F)[°C]	-25 to 375 [-32 to 190.5]
Pressure Rating (psi)[MPa]	20,000 [138]
Material	Stainless Steel
Mechanical	
Outside Diameter (in.)[cm]	2.75 [6.98]
Length (in.)[cm]	116.5 [295.91]
Weight (lb)[kg]	132 [49.27]
Max. Tension (lbf)[kN]	60,000 [267]
Min. Casing Size (in.)[cm]	4.50 [11.43]
Max. Casing Size (in.)[cm]	8.63 [21.92] (RIB) • 9.63 [24.46] (CBL/VDL)
Top • Bottom Connection	1-3/16 in. GO Box • 1-3/16 in. GO Pin
Electrical	
Operating Voltage	+70VDC to +150VDC (-25VDC to -250VDC Lower Tool Actuating)
Operating Current	72mA at 120VDC to 80mA@80VDC
Transmitted Data Rate	40kB Hybrid Digital (20 Frames/Sec – Sonic & Caliper Data)
Auxiliary Tool Input	Analog (Single or Bi-Level Pulse) – Telemetry (Hunting & GOWell V1.5)
Analog Input Pulse Height • Width	±12V max • 1µs min, 30µs max
Transmitter Frequency *Crystal Type	20 kHz 8 Piezoelectric
Cable Type Conductor • High Capacitance Lines	Single or Multi-Conductor • 7/32 in. 500°F (260°C)
Temperature Sensor * Range (°F)[°C]	Platinum RTD • -25 to 400 [-32 to 204]
Pressure Compensation	Oil Filled Sliding Cans

About Hunting's Titan Division

For successful cased hole logging and perforating services, tool reliability, availability, and time line of delivery are essential. Hunting supplies customers worldwide with the right tools to get the job done. Our product lines include state of the art, high quality wireline and tubing conveyed perforating (TCP) gun systems, hardware and accessories, shaped charges, and electronic logging tools.