

# 6-8 Sectors Radial Incremental Bond Tool (RIB)

Titan Division | Instruments

### Features

- Hunting's hybrid telemetry
- Easily serviced slip joint isolator bar construction
- Unique 1.5-ft transmitter to radial receiver spacing
- Identifies micro annulus and channeling
- Locates top of cement

## Benefits

- Less fast formation interference in segmented cement mapping
- Accurate 3-ft spacing
- Accurately assesses cement bond quality and hydraulic isolation

The accurate evaluation of the cement bonding to a well's casing and to the formation is necessary to confirm the integrity of isolation between zones and avoid production problems. The standard single transmitter Cement Bond Log (CBL) tool accurately determines casing bond by measuring the amplitude of the first arrival at the 3-ft receiver. A deeper investigating 5-ft receiver confirms the interpretation and also shows formation bond by a full Variable Density Log (VDL) wave display.

Hunting's family of CBL tools come in a range of sizes to accommodate casing sizes ranging from 2-3/8 in. (60 mm) to 9-5/8 in. (244.48 mm). The tools can be configured to several timing schemes for different logging systems.



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#### **Specifications**

Part Number	1-11/16 in. (43 mm) 6 Sector	2-3/4 in. (70 mm) 8 Sector
Standard	8112-1686NPE150-015-00 High-side Not Available	8112-2756NPE237-022-00 8112-2756LPE237-022-00 (High-side)
High Temperature	8112-1689NPE150-015-00 High-side Not Available	8112-2759NPE237-022-00 8112-2759LPE237-022-00 (High-side)
Measurements		
Vertical Resolution	1.5 ft RIB	
	3 ft CBL and 5 ft VDL	
Sector Azimuthal Resolution	60° Cement map	45° Cement map
GTF Synchronized with Sector #1	*Available Option	*Available Option
Borehole Temperature Accuracy** (°F)[°C]	+/-1% from 75 - 400 [24 - 204]	
Internal Tool Temperature Accuracy** (°F)[°C]		
Cable Head Voltage, VDC	As Measured at Cable Head	
Logging Speed (ft/min)[m/min]	60 [18.3]	
Mud Type • Weight - All Tools	Must be Liquid   No Limitations	
Offset from Bottom Shoulder (in.)[cm]		
Temperature • Transmitter	78.0 [198.2] • 70.0 [177.8]	76.5 [194.3] • 70.0 [177.8]
RIB	61 [154.9]	
3ft Crystal • 5ft Crystal	52.0 [132.1] • 40.0 [101.6]	
Environmental		
Temperature Rating		
Standard (°F)[°C]	-25 to 375 [-32 to 190.6]	
High Temperature (°F)[°C]	-25 to 450 [-32 to 232]	
Pressure Rating (psi)[MPa]	20,000 [138]	
Material - All Tools	H <sub>2</sub> S-Resistant Construction	
Mechanical		
Outside Diameter (in.)[mm]	1.69 [42.9]	2.75 [69.9]
Length (ft)[m] {Hi Temp}	9.13 [2.78] {10.34 [3.15]}	9.13 [2.78] {10.47 [3.19]}
Weight (lbs.)[kg] {Hi Temp}	63 [29] {73 [33]}	120 [54] {148 [67]}
Min. Casing Size (in.)[mm] RIB	2.38 [60]	4.50 [114]
Max. Casing Size (in.)[mm] CBL/VDL	6.13 [156] (RIB)/7.00 [178]	8.63 [219] (RIB)/9.63 [244]
Top/Bottom Connection	1-3/16 in. GO Box/Pin	
Max. Tension (lbf)[kN]	40,000 [178]	60,000 [267]
Electrical		
Operating Voltage & Current	120 VDC @ 40±5 mA	120 VDC @ 55±5 mA
Auxiliary Tool Input	Single or Bi-Level Pulse	
HT Telemetry -All Tools	HT Telemetry	
Analog Bi-Level Pulse (pulse height & width)	±12V max • 1μs min, 30 μs max	
Sonic Transmitter Frequency (RIB/VDL) KHz	20/20	20/18
Cable Type - All Tools	Single or Multi-Conductor	
High Capacitance Lines - All Tools	7/32 in. 500°F (260°C)	
Crystal Type - All Tools	Piezoelectric	
Pressure Compensation - All Tools	Sliding Cans	

\*Available Option Gravity Highside Reference to Radial Sector #1 [+/-2° (5° to 90°) Borehole Inclination] \*\*Temperature Reading is Less Accurate Below 75°F [24°C] and Above 400°F [204°C]

#### 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.