



CASED HOLE LOGGING Segmented Cement Bond Tool

Spartek Systems specializes in providing the oil and gas industry with high quality data to monitor well performance and diagnose potential problems. Founded in 1994, Spartek Systems leads the industry in providing cost effective solutions for acquiring reliable well integrity data.



Product Overview

The Segmented Cement Bond Tool (SCBT) provides the operator with an accurate and economic means of inspecting the quality of the cement bond to casing and formation.

The SCBT evaluates the cement bond quality and integrity to both pipe and formation by providing the measurements of the cement bond amplitude (CBL) through the near receiver (3-ft crystal), and variable density log (VDL) through the far receiver (5-ft Crystal). Depending on tool size, the SCBT has six to twelve segmented receivers. These radial receivers are used to provide a high resolution cement map.

The same bond measurement is available as an analog tool and a high speed digital tool. In the digital tool all sonic data is captured and stored digitally within 2 ms allowing flexibility of the output telemetry. This tool is easily configured to customers requirements. The separate acquisition and output module allows changes to the output telemetry to be easily accomplished.

The analog tool requires ten cycles in order to transmit all of the data to the surface. This requires slower logging speeds for the same vertical resolution.

These tools are designed for high temperature, and high pressure environments. In the near future, this tool will also be available with an interface to

Spartek Systems "open architecture" tool bus., allowing for both memory and SRO operations.

Applications

- ▶ Evaluation of cement bond quality and integrity.
- ▶ Location of free-pipe and cement-top.
- ▶ 360° cement map

Primary Features

- ▶ Rated for High-temperature and high-pressure environments.
- ▶ Combinable with Gamma ray , CCL , and temperature sensors (built in on the digital tools)
- ▶ The output can be configured to emulate most bond tools available today.
- ▶ Compatible with most surface systems.
- ▶ Runs on all standard wirelines.
- ▶ Combines with all standard pulse tools on the bottom
- ▶ All receivers are built in a slotted housing to provide rigidity, strength, and noise isolation.
- ▶ Electronic design verified for 1 hour operation at 415°F to ensure reliability.
- ▶ Easy to service and maintain.

SPARTEK SYSTEMS

Providing Our Customers With "Best In Class" Technology

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Specifications:

	SCBT-169	SCBT-275	SCBT-350
Pressure (maximum)	25,000 psi (172.4 MPa)	25,000 psi (172.4 MPa)	25,000 psi (172.4 MPa)
Temperature (maximum)	400° F (204° C)	400° F (204° C)	400° F (204° C)
Diameter	1.69 in (42.8 mm)	2.75 in (68.8 mm)	3.50 in (88.9 mm)
Length	14.67 ft (4.475 m)	13 ft (3.96 m)	13 ft (3.96 m)
Weight	73 lb (33.0 kg)	150 lb (68.0 kg)	230 lb (104.3.0 kg)
Measurements Near Omni Receiver (3 foot) Far Omni Receiver (5 foot) Radial Segmented Receivers (2 foot) Gamma Ray CCL Temperature	1.2 in Diameter 1.2 in Diameter 6 segments Integrated Integrated Integrated	2.0 in Diameter 2.0 in Diameter 8 segments Integrated Integrated Integrated	2.625 in Diameter 2.625 in Diameter 12 segments Integrated Integrated Integrated
Transmitter Omni Directional Cycle Time Number of Cycles	1.2 in Diameter 50 ms 3	2.0 in Diameter 50 ms 3	2.625 in Diameter 50 ms 3
Recommended Casing Range Minimum Casing ID Maximum Casing ID	2.0 in (50.8 mm) 7.0 in (177.8 mm)	3.5 in (88.9 mm) 10.75 in (264 mm)	5.25 in (140 mm) 13.625 in (346 mm)
Data Acquisition Maximum Logging Speed Tool Positioning	100 ft/min (30 m/min) Centralized	100 ft/min (30 m/min) Centralized	100 ft/min (30 m/min) Centralized
Power Requirements Input Voltage Input Current Required	100 to 150 VDC 80 to 90 mA	100 to 150 VDC 80 to 90 mA	100 to 150 VDC 80 to 90 mA

Specifications subject to change without notice

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