

# 3 1/2" BHC Sonic Tool

Product Reference: 050-FG000-0000 (10 Pin)

The Bore Hole Compensated (BHC) Sonic Tool uses two acoustic transmitters and two acoustic receivers arranged in an oil filled stainless steel slotted sleeve mandrel to provide transmitter to receiver spacing.

The tools' design provides dual 3 ft. and 5 ft. transmitter-receiver signals to the surface to compensate for unequal mud-travel times caused by de-centralization of the tool in the well bore, and for borehole irregularities. The resultant calculated travel times are compensated to yield a true  $\Delta t$ .

The tool utilizes logarithmic amplifiers to obtain first arrival signals in even the worst of borehole conditions.

From the compensated calculated  $\Delta t$ , a true acoustic derived porosity of the formation lithology is calculated.



## SPECIFICATIONS - 3 1/2" BHC SONIC TOOL

<b>Diameter</b>	3 1/2"	9 cm	<b>Mechanical:</b>	
<b>Length</b>	170"	4.3 m	<b>Top Connection</b>	10 or 17 pin GO OHCH 3 1/2"
<b>Weight</b>	225 lb.	102 kg	<b>Bottom Connection</b>	10 or 17 pin GO OHCH 3 1/2"
<b>Limitations:</b>			<b>Other mechanical configurations:</b>	
<b>Maximum Pressure</b>	18,000 psi	124.1 MPa	— Internal switch option available for BHC/Bond operation, switched from the surface system.	
<b>Maximum Temperature</b>	325°F	162°C		

## RELATED PRODUCTS

- 050-FG000-1000 3 1/2" BHC Sonic Tool (17 pin)
- 050-FE500-0000 Dual Induction Profiling Tool
- 050-FA405-0000 BHC Density Tool
- 050-FA300-1000 BHC Litho-density Tool
- 050-FA200-0000 Open-Hole Gamma Ray tool
- 050-FA100-0000 Compensated Neutron Tool
- 050-FG010-0000 Bowspring Centralizer

Note: The 3 1/2" BHC Sonic Tool is combinable with the Dual Induction Tool, the BHC Density or BHC Litho-density Tool, the 3 3/8" Compensated Neutron Tool and the 3 3/8" Open-hole Gamma Ray Tool.

At Probe, we design, manufacture and service specialized modular downhole tools and systems. Our tools are used in formation evaluation, well integrity assessment and well productivity determination across the global energy industry.

© 2010 Probe Holdings, Inc. All rights reserved.

Probe Technology Services, Inc. • 1132 Everman Parkway • Fort Worth • Texas 76140 • USA • T +1 817 568 8528 • F +1 817 568 0091 • www.probe1.com