

## ACOUSTIC CEMENT BOND TOOL



The Acoustic Cement Bond Tool (ACBT) is a cement bond evaluation tool equipped with 2 transmitters (T1, T2) and 2 receivers (R1, R2) of acoustic waveforms. Pairs of emitters and receivers form two measurement bases with opposite observation systems of acoustic response. The ACBT delivers detailed information about the well isolation condition achieved by the cementing job. The tool provides measurements in oil and gas wells with the diameter of the wellbore up to 11.8" (300 mm).

### Applications

- Cement bond quality evaluation
- Acoustic profile in open hole wells

### Advantages

- Fully autonomous (memory mode)
- Compatible with an entire range of North Side Tools

Tool Specifications	
Probes configuration	R20.4R11.0T10.4T2
Interval time of elastic wave propagation	100-500 $\mu$ s/m ( $\pm$ 3%)
Casing Diameter	5.0-9.6 in (127-245 mm)
Borehole diameter	4.7-11.8 in (110-300 mm)
Transmitter operation frequency	20 kHz
Maximum Operating Temperature	150°C (302°F)
Maximum Operating Pressure	14,500 PSI (100 MPa)
Tool length	15.1 ft (4.6 m)
Tool OD	3.0 in (76 mm)
Tool weight	95 lbs (43 kg)
Surface read-out / Memory	Fully autonomous (memory mode)
Operational time	24 hrs
H <sub>2</sub> S resistance	6% standard (25% optional)

