

# SONACERT



- Increase inspection rates
- Make a statement of quality
- Build bespoke databases of probe data and images
- Enable statistical analysis of test results
- Customise certificates with logos, company information.
- Improve record keeping and QA processes
- On screen Help available
- Metric and Imperial units
- Different languages available

**SonaCert** is one of the most versatile and easy to use test and certification systems for transducers. Designed to test any transducer with any test block, this system will generate high quality certificates showing the unique test results and data for each particular transducer.

**The following probe types can be evaluated by the system:**

- Single and Twin Compression
- Single and Twin Angle
- Immersion Probes
- Specials

**Criteria measured/calculated for all probe types:**

- Signal Waveform
- Frequency Spectrum
- Peak & Centre frequency
- -6dB upper and lower points
- Bandwidth
- Pulse Duration
- Pulse length in test block material
- Near field length of crystal in test block material
- TX width equivalent in test block material
- Signal to noise
- Beam Angle
- Peak to Peak voltage
- Output

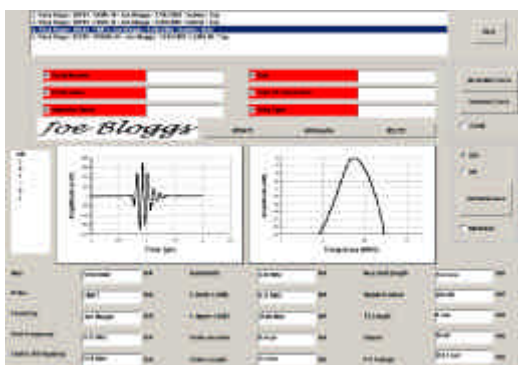
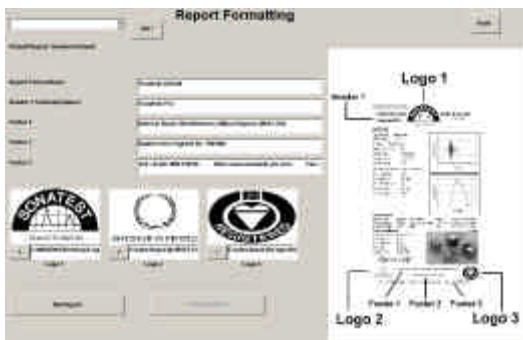
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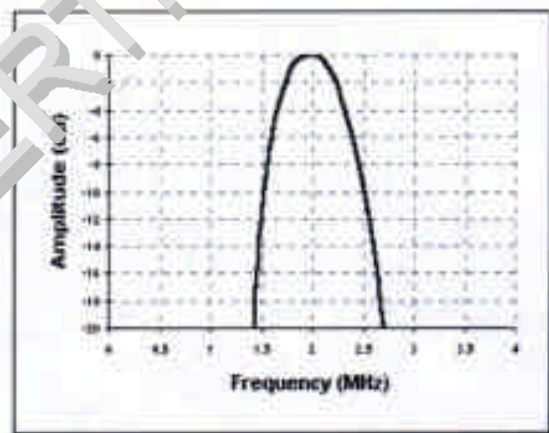
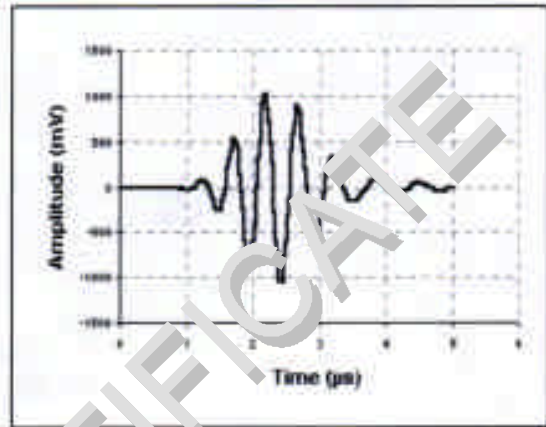
**TRANSDUCER**  
**Sonatest PLC**



**CERTIFICATE**  
Date stamp

**ORION2-45**

Type of probe Single Angle  
 Serial number 923/03  
 Frequency  $\pm 10\%$  (MHz) 2  
 Beam angle  $\pm 1.5$  (°) 45  
 Crystal shape Circular  
 Crystal size (mm) 10  
 Crystal material PZT  
 Probe dimensions (mm) 17x34  
 Probe weight (g) 25.5  
 Connector type LEMO 00  
 Connector position Top  
 Wedge material Perspex  
 Index point (mm) 10.5



**Test Results**

Peak frequency	1.67 MHz	Pulse duration	2.25 µs	-6dB upper	2.40 MHz
Centre frequency	1.7 MHz	Peak to peak voltage	2.1 V	-6dB lower	1.62 MHz
Near field length	14.7 mm	Angle *	44.3 °	Bandwidth	0.78 MHz

**Test conditions**

Instrument used Sonatest Masterscan  
 Pulse width 250 ns  
 Pulse impedance 180 Ohms  
 Test block A2 (25mm)  
 Inspector name C.Cuciureanu

\* in Steel



*C. Cuciureanu*



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