

ANGLE BEAM PROBES

non-destructive testing of welds with ultrasound



SONOSCAN

SONOTEC 

*accurate
compatible
ergonomic*



SONOSCAN probes for non-destructive testing of welds



The new angle beam probes for non-destructive material testing of the probe series SONOSCAN check metals for cracks and inclusions. They are mainly used for weld inspection. The ultrasonic probes detect critical defects i.e. discontinuities and quality deficiencies of welds. The SONOSCAN probes are effective ultrasonic converters, which were adapted to the common mobile ultrasonic testing equipment.

Inside the angle beam probes there is a transducer, which is able to emit ultrasonic transverse waves in a specific angle to the workpart via a forward wedge. The angle beam probes guarantee an optimized usage owing to variable types of construction and sizes.

It is possible to adapt to curved surfaces i.e. adaptation to different pipe forms through seat grinding of the probes. Thus the DIN EN 1714 standard regarding non-destructive testing of welds can be well achieved.

The unique and beneficial ergonomic shape of the angle beam probes enables a comfortable and a handy usage.

Advantages

- ▶ Excellent acoustic characteristics
- ▶ Compatibility to common ultrasonic testing equipment
- ▶ Unique ergonomics and fatigue-proof, handy usage
- ▶ Possibility to realize customized solutions

The precise ultrasonic probes are manufactured in two different types of construction. They can be chosen according to the angle, the frequencies and the size of transducers for different material thicknesses as well as spatial conditions. There is the possibility to realize customized solutions besides the two mentioned standardized types of construction.



Technical data

Large type of construction:

- WL 45-2 (45° | 2MHz | 20x22mm)
Art. Nr. 100 01 0176
- WL 60-2 (60° | 2MHz | 20x22mm)
Art. Nr. 100 01 0177
- WL 70-2 (70° | 2MHz | 20x22mm)
Art. Nr. 100 01 0178

Small type of construction:

- WS 45-2 (45° | 2MHz | 8x9mm)
Art. Nr. 100 01 0170
- WS 60-2 (60° | 2MHz | 8x9mm)
Art. Nr. 100 01 0171
- WS 70-2 (70° | 2MHz | 8x9mm)
Art. Nr. 100 01 0172
- WS 45-4 (45° | 4MHz | 8x9mm)
Art. Nr. 100 01 0173
- WS 60-4 (60° | 4MHz | 8x9mm)
Art. Nr. 100 01 0174
- WS 70-4 (70° | 4MHz | 8x9mm)
Art. Nr. 100 01 0175

Coupling medium: oil, paste, gel

Connections: Lemo 1S (WL)
Lemo 00 (WS)

Opt. accessories: connection cable

Further types of construction are available on request.

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