



Ultrasonic double-transducer normal probe

Application

Basic probes for testing of: steels, cast iron, composites and others. **Construction of double-transducer probes eliminates dead zone** which is in many applications significant advantage in relation to normal probes. Lack of dead zone is especially important in testing welds with small thickness, thickness measurements and testing of materials highly attenuating (composites, cast iron).

Exemplary usage of probes are: thickness measurements, testing of forging, cylindrical elements, axles, pipes, shafts, testing for stratification, inclusion, detachment (composites), characterization of materials, etc.

We are making all standard kinds of normal double-transducer probes for longitudinal waves.

All probes can be made in a standard manner or customized to the customer specific requirements.

Probes can be supplied with the water-coupling wedge or without it in casings made of: aluminum (blacken), brass, stainless steel, teflon, plastic or other requested material.

Probes can be delivered with LEMO or BNC connector. Other connectors are also available upon request.

Delivered probes has manufacturer certificate with specified acoustic probe parameters.

Probe symbols:

Probe marked as 2x2L020 and U03042 has:

- 2x - double-transducer probe,
- frequency 2 MHz,
- type of ultrasonic wave L-longitudinal,
- testing angle 0 degrees (perpendicularly to the tested surface),
- transducer diameter 20 mm (split in half),
- U03042 manufacturer symbol and serial number.

Double-transducer normal probes (underlined - most commonly used):

2x2L010 2x1L020 2x4L07 2x5L07 2x6L07
2x2L012 2x3L010 2x4L010 2x5L010 2x6L010
2x2L020 2x3L012 2x4L012 2x5L012 2x6L012
2x2L026 2x3L020 2x4L020

Probe acoustical parameters:

- frequency,
- Type of ultrasonic wave,
- beam angle,
- transducer dimensions,
- offset,
- near field length,
- Relative probe sensitivity,
- effective transducer dimensions.