



Autosonic™ mini

Semi-automatic Ultrasonic Testing Device

Range of Application

Autosonic™ mini offers a system, which is universally suitable for the periodical re-qualification of small gas cylinders. Especially for cylinders used in carbonators.

Scope of testing	80 – 400,000 cyl/year
Diameter	60 mm*
Lengths	340 mm*
Capacity	30 – 100 cylinders/hour
*system can be adapted to other dimensions	

Unit description

Autosonic™ mini ultrasonic testing device has been developed to test seamless steel and aluminum gas cylinders of small diameter and short length. The main parts of this test system are made of stainless steel and aluminum. By choosing this type of material, a long lifetime of the mechanical parts and reduced maintenance costs are granted.

Autosonic™ mini has two independent test stations. The operator loads manually a cylinder on station 1 and he activates the inspection cycle. Then the test head drives automatically over the rotating cylinder in station 1 performing the inspection. While inspecting the first cylinder, the operator can load another cylinder on station 2. This particular architecture allows an optimization of the cycle time: while a test is being performed in one station, the operator can unload a scanned cylinder, load the next cylinder into the other station, and thus minimize down time.



Autosonic™ mini: machine layout

Ultrasonic sensors inspect the cylindrical part of the cylinder including the transition area to the base and to the shoulder on longitudinal and transversal flaws to 100%.

Test Head

All the products of the **Autosonic™** family use the same scanning head. This is composed by a water chamber, a pneumatic centering device and integrated ultrasonic transducers.



Autosonic™ test head

Software

The system is controlled by a PLC and a touchscreen user interface. The inspection is performed by means of the cylinder testing software UT Work. The cylinder data input, the display of the ultrasonic signals and their evaluation as well as the recording of the test is covered by this software. The software manages all UT settings. Tests and calibrations are stored automatically. Data traceability is ensured. Control system and computer are equipped with a module for remote access for maintenance and remote support.

Options

- Data entry solution

Contact

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