

ATE

COMPLETE
SOLUTION
FOR NDT

ULTRASONIC TESTING

URM 360

URM 360 is a fully automated ultrasonic testing line for bearing rings. The line is used for automatic ultrasonic inspection by immersion method. The device is capable of sensing internal defects of bearing rings according to EN 12080 standard.

The robotic ultrasonic testing system *URM 360* is designed for automated testing of internal defects of bearing rings by ultrasonic NDT immersion method. Probe testing is performed from both the inside and the outside. The device is capable of sensing internal defects of bearing rings according to EN 12080 standard.

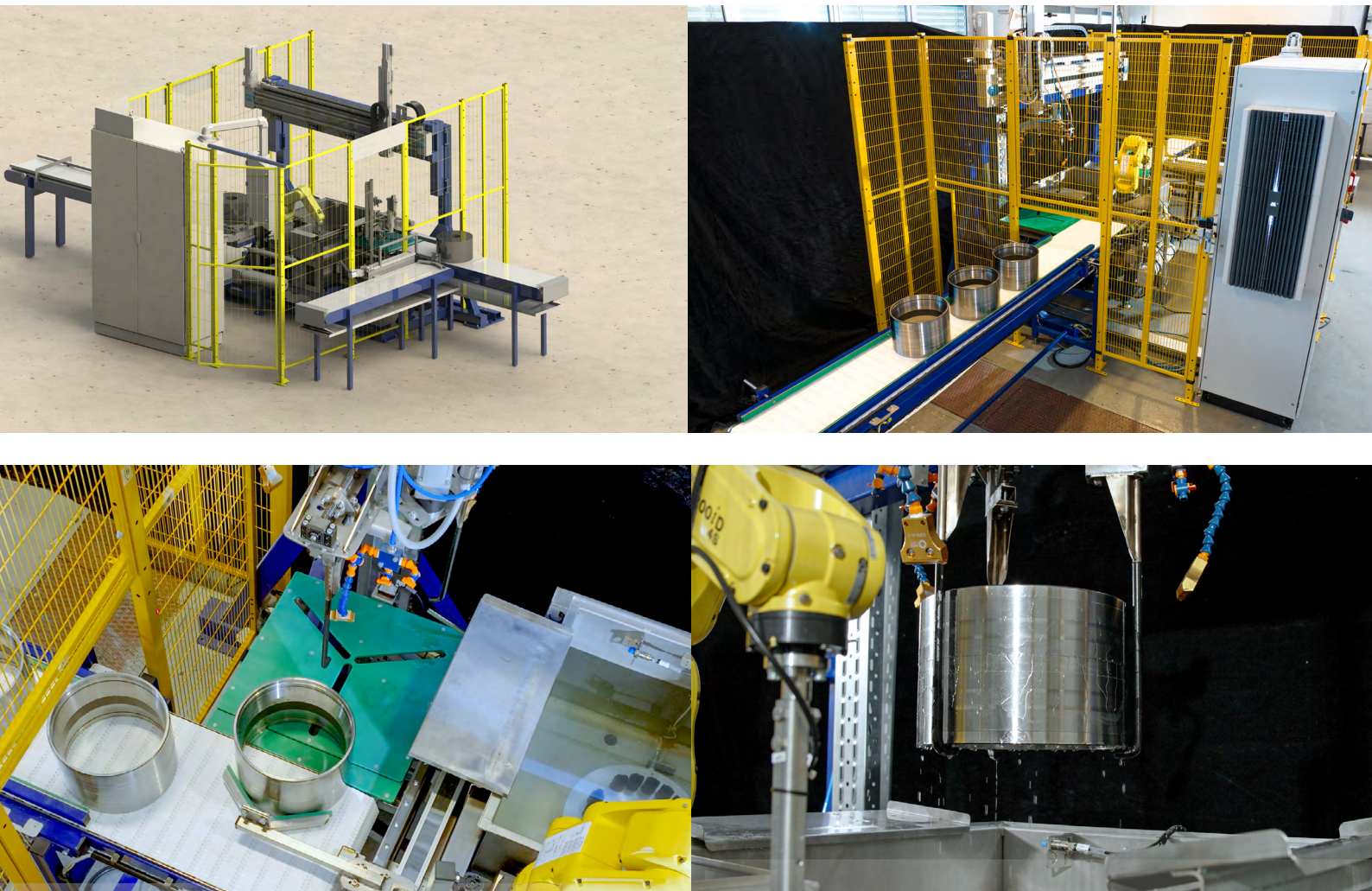
It is equipped with a SOCO-1-UT ultrasonic system from SOCOMATE, to which is connected a TECHNISONIC IRA-1004-VHR ultrasonic probe moved by a FANUC LR Mate 200iD/4S robot. The device was designed to perform the test with one probe. The *URM 360* can be used either as a stand-alone system or can be easily integrated into an inspection or production line.

Key features

- Ultrasonic testing acc. EN 12080 standard
- Cylindrical, tapered and spherical roller bearing rings
- Sensitivity of 0.5 mm FBH located 0.5 mm below the raceway
- Fully automated ultrasonic inspection and evaluation system
- The possible dimensions of the tested part are from 110 mm inner diameter and up to 360 mm outer diameter

Parameters

| | |
|---------------------------------|---------------------------|
| Diameter of the tested part | min. 110 mm – max. 360 mm |
| Depth of testing | max. 16.5 mm |
| Maximum load on conveyors | 45 kg/m |
| Maximum load on the manipulator | max. 16 kg |
| Voltage system | 3+N+PE 400V/230V 50-60 Hz |
| Maximum electrical input power | 35 kW |
| Rated current | 50 A |
| Pressure air supply | from 4 bar to 6 bar |
| Nominal air pressure | 6 bar |



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