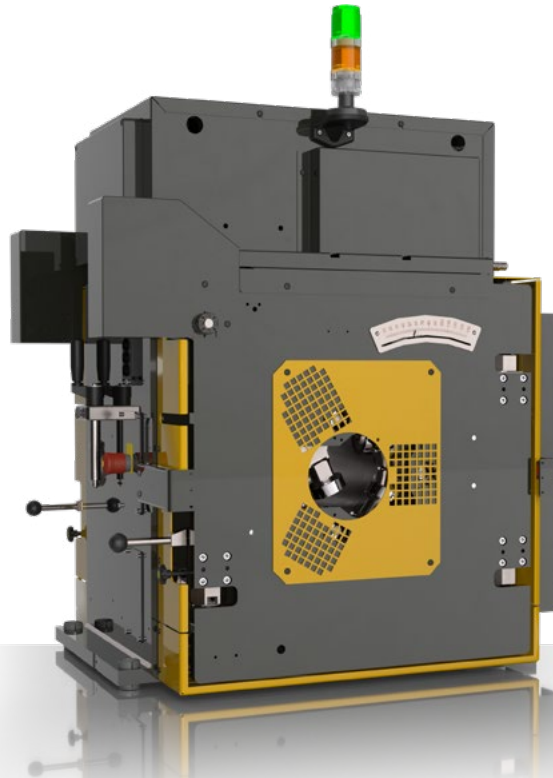


CIRCOFLUX DA sensor system Ro 140

High-precision testing of ferromagnetic steel bars
for longitudinal crack-like defects



Reliable and effective testing of steel bars for surface defects

Using the highly effective magnetic flux leakage method in accordance with the EN ISO 9443 standard, the CIRCOFLUX testing system non-destructively tests the surface of hot-rolled ferromagnetic steel bars for longitudinal crack-like defects. This test system replaces subjective test methods such as magnetic particle testing (fluxing) or visual inspection, which are not only far less sensitive but also difficult to document and reproduce.

The Ro 140 sensor system can test bars of a diameter ranging from 10 mm to 140 mm. FOERSTER's many years of experience in this field guarantee outstanding operational reliability, and the test electronics' modular design ensures that you'll always be able to accommodate tomorrow's ever-increasing requirements for detection sensitivity.

The benefits

- Highest detection sensitivity for longitudinal defects: Starting at 0.1 mm deep on ferromagnetic bars with a hot-rolled surface.
- Highest resolution and reproducibility: 2×40 test channels with a maximum transport speed of 4 m/s.
- Minimum reproducible defect length, beginning at 4 mm.
- Automatic dimension adjustment: Reduces the changeover time to just 1.5 minutes.
- Fewer wear parts reduce costs: Maintenancefree, inductive signal transmission and magnetization supply.
- Untested ends reduced to the minimum.
- New high resolution C-Scan.
- Complete bar inspection: When used in combination with the FOERSTER BARPROOF ultrasonic test system, you can simultaneously inspect for internal defects.



Comprehensive bar testing with CIRCOFLUX DA and BARPROOF 140

For testing bars with bright or hot-rolled surfaces, several test instruments are typically combined into one test line. This usually starts with a device for detecting surface and near-surface defects, such as the CIRCOFLUX flux leakage system.

This is followed by the BARPROOF 140 for ultrasonic testing for internal defects. For fully automated testing,

the FOERSTER test line guides the bars centrally through the individual instruments. And there's no need to stop the test line to maintain or make adjustments to the instruments: they can be moved into a service position for this purpose.

FOERSTER is your one-stop shop for complete bar testing lines. We work with you to develop your customized bar test line and offer you comprehensive services, a single trusted source.

