

ELOTEST
IS Roller

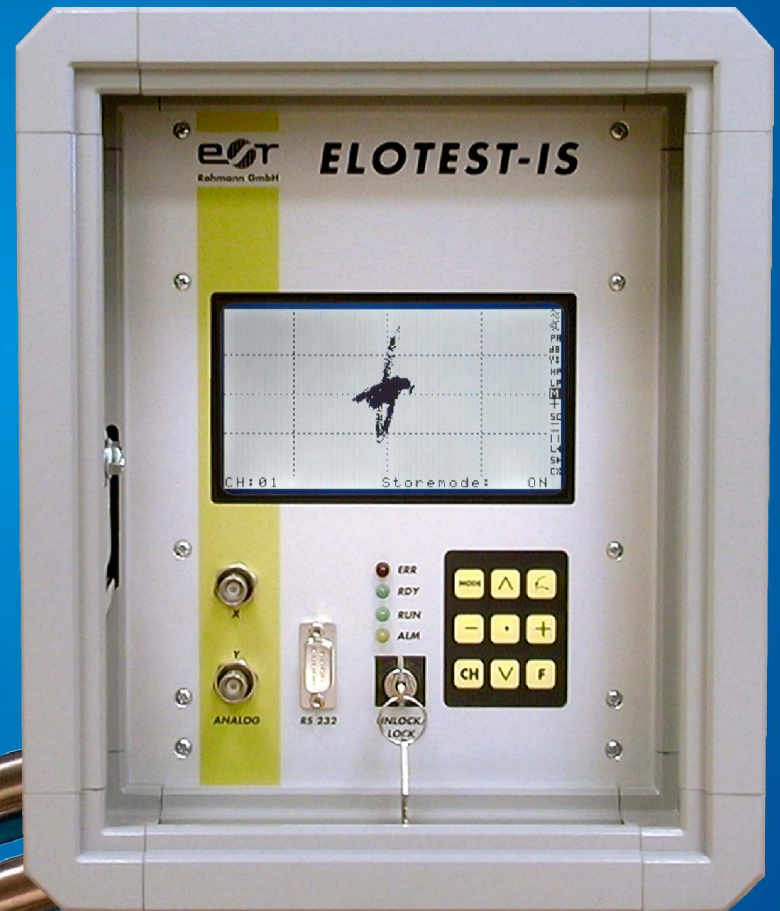
When you manufacture

- Rollers
 - Bearings or
 - Cylindrical Products
- Of High Precision and Quality

When you need to detect

- Pits
 - Cracks and
 - Other flaws
- Without Compromise

When you need a complete solution with ease-of-use, minimum installation and setup time at an acceptable cost



Eddy Current Instrument with Automated Part Detection, Inspection, Evaluation and Sorting - All-in-One Package

Technical Data

ELOTEST IS "Roller" - Specifications

Instrument Data

- Two independent channels, frequency 10 Hz to 10 MHz
- Driver amplifier: 400mA, protected
- Preamplifier: 0 dB to 60 dB in 10 dB steps
- Main amplifier: 0 dB to 60 dB in 1 dB steps
- Y-axis spread: 0 dB to 30 dB in 1 dB steps
- Phase: 0° to 359.5° in 1° steps
- Signal filter LP/HP: 0 Hz to 10 kHz, separately adjustable; bandpass-filter (BP) with variable bandwidth

Probe Connection

- 11-socket Fischer

Interfaces

- RS232 (D-Sub 9) for printer, PC
- BNC for external signal I/O
- Terminals for inputs (activate channel) and outputs (Alarm/sorting etc)

Display

- LCD display

Power Supply

- Fused power-entry 100-240 VAC, 50-60 Hz; max 3.15A

Housing

- IP65/Nema4/12; extruded aluminum

Dimensions

- Width: 9.4" (240 mm)
- Depth: 9.1" (230 mm)
- Height: 11.4" (290 mm)

Weight

- 18 lb (8 kg)

Mousing

- wall brackets; optional stands

ELOTEST IS "Roller" - Special Features

Integrated Logic for Test-Activation and Probe Wear Monitoring

Two channels for use with a sensor that contains an absolute and a differential element. The absolute sensor element is used to detect the start and end of the part to be inspected and activates the scan using the differential sensor.

The absolute sensor can be used to monitor probe-wear. Flaw detect ability using a 2 mm (0.08") element is smaller than 0.5 mm (0.02") length depending on part surface conditions.

Integrated Shift-Registers and Counters

Internal counters count total parts tested and the number of rejected parts. Operator-adjustable shift-registers provide the timing for test activation and the timing for activating part reject mechanisms (blow-outs, paint-markers, etc). No external PLC required.

Power Filters

HD-industrial standard line-filters suppress interferences and eliminate false rejects caused by line noise.

ELOTEST IS "Roller" - Advantage Comparison

Feature	Elotest IS "Roller"	Competitor
- Industrial IP65 housing	- yes	- no
- Shift-registers for external Relais or Paint-Markers	- yes	- no
- Standard I/O	- yes	- yes
- Opto-decoupled I/O	- yes	- no
- Analog Out /Rs232	- yes	- yes
- Part detection	- yes	- no
- Probe Wear Monitor	- yes	- no
- 2-Channel absolute/diff	- yes	- no
- 2 Frequency operation	- yes	- yes
- Full frequency range	- yes	- yes
- Full gain/phase/filter range	- yes	- limited
- Cost (for complete system)	< US\$ 20,000	< US\$ 20,000
- Supplemental requirements For installation	- connect to relais	- program PLC
- Time/cost for installation	1hr / \$150	Up to 2 weeks Up to \$10,000



Rollers with Probe



Rohmann GmbH
Rudolf-Diesel Str. 13
67227 Frankenthal
Germany

Tel.: +49-(0)6233-3789-0
 Fax: +49-(0)6233-3789-77

Internet: www.rohmann.de



Rohmann UK
 Unit 8 Bumpers Enterprise
 Centre
 Chippenham, Wiltshire
 SN14 6LH UK

Tel.: +44-(1)249-659346
 Fax: +44-(1)249-443097

www.rohmann.co.uk



Rohmann Inc.
114 Perimeter Rd
Nashua, NH 03063
USA

Tel.: +1-(603) 595-4220
 Fax: +1-(603) 595-4221

www.rohmann.com