

SET-UP BOX-Version

- Closed aluminium die-cast housing
- Housing dimensions: 240mm wide
290mm high
235mm deep
- IP65 protective system when the doors are closed
- Weight approx. 10.3kg
- Service temperature 5 to 40°C
- Up to 2 channels
- Mounting: may be mounted on the wall, swivel arm, pedestal
- Cable feed from the bottom via a PG(M) threaded joint to a terminal; optional connector

SET-UP 19"-Version

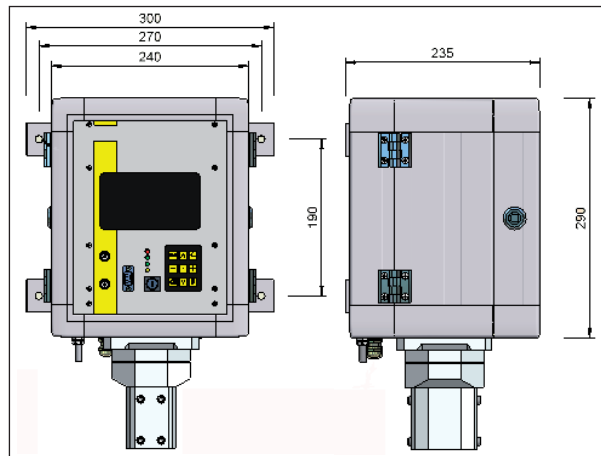
- Housing dimensions: Width: 19"
Height: 4HE
Depth: approx. 300mm
- Optional in a bigger housing respectively control cabinet – customized
- IP30 protective system
- Service temperature 5 to 40°C
- Cable feed in the rear via a connector
- RS232: DSub9m (plug) probes DSub9f (socket)
- Weight approx. 11.2kg
- Up to 12 channels

OPERATOR'S SIDE

- Operation on the front panel via a keypad with 9 function keys and easy-to-understand structured operator surface
- LCD-graphic display that is rich in contrast and offers a high resolution of 128 x 240 dots, monochromatic
- LED-status displays for power supply, error messages and crossed gates
- 9-pin (DSub-9m) connector as RS232-interface for printer/host computer
- BNC-connectors for X- and Y-analogue signals

FUNCTION

- Channel-functions are controlled by micro processors and may be accessed via remote control
- Languages: 2 languages (1st language English; 2nd language German or Spanish or French or Italian or Swedish)
- Test channel with sine-frequency generator; tunable from 10Hz to 10MHz; transmitter amplitude adjustable from 0 to 100%
- Driver amplifier: max 20Vss, max. 400mA (short-circuit proof)
- Input voltage: max. $\pm 1V_{ss}$ (beyond that overload)
max. permissible $\pm 2.5V_{ss}$



- Pre-amplification: 0 to 60dB in 1-dB-increments and 20-dB attenuation or automatic pre-amplification alignment upon request
- Sensitivity gain: 0 – 60dB in 1-dB-increments; Y-axis spread adjustable in 1-dB-increments up to 20 dB
- Signal filter: adjustable in 40 steps from DC (0Hz) to 10kHz lower and upper limiting frequency (modes: high pass, low pass, band pass)
- Signal vector: phase adjustment from 0 to 359° in 1°-increments or automatic lift-off correction; selectable
- RS232-interface configured via the menu as host or printer interface
- Image storage to store the test signals and print a log of a reference defect
- Defect evaluation adjustable via various gate types
- Strip-chart mode to record longer test cycles between 10s and 24h; registering of time and individual parts as an effective trend analysis in the production line
- Sorting mode with up to 8 sorting windows; adjustable via gates and OK/not-OK counter

DIGITAL INTERFACES(external 24 V_{DC} required)

Control interfaces to:

- call up settings
- select channels
- select functions (max. 32; compensation, clear screen, lift-off are pre-assigned)

Gate outputs: up to 3 per channel

Status reports: system not ready, ready, busy

ANALOGUE SIGNALS

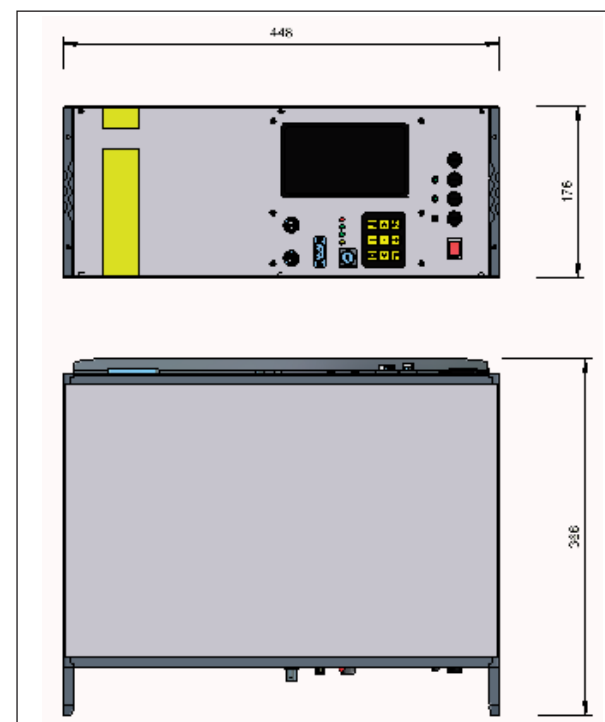
In the BOX-version via terminal guided X/Y-signals per channel [sic]

In the 19"-version on DSub 50f (socket) X/Y-signals per channel

Signal voltage max. 10Vss (DC – 10kHz)

OPTIONS

- Shift register for marking
- Driver for transmitting current up to 1.5Amp



Quality Assurance during Production

Eddy Current Inspection of Material Properties and Material Defects



ELOTEST IS -

The efficient system for the production line

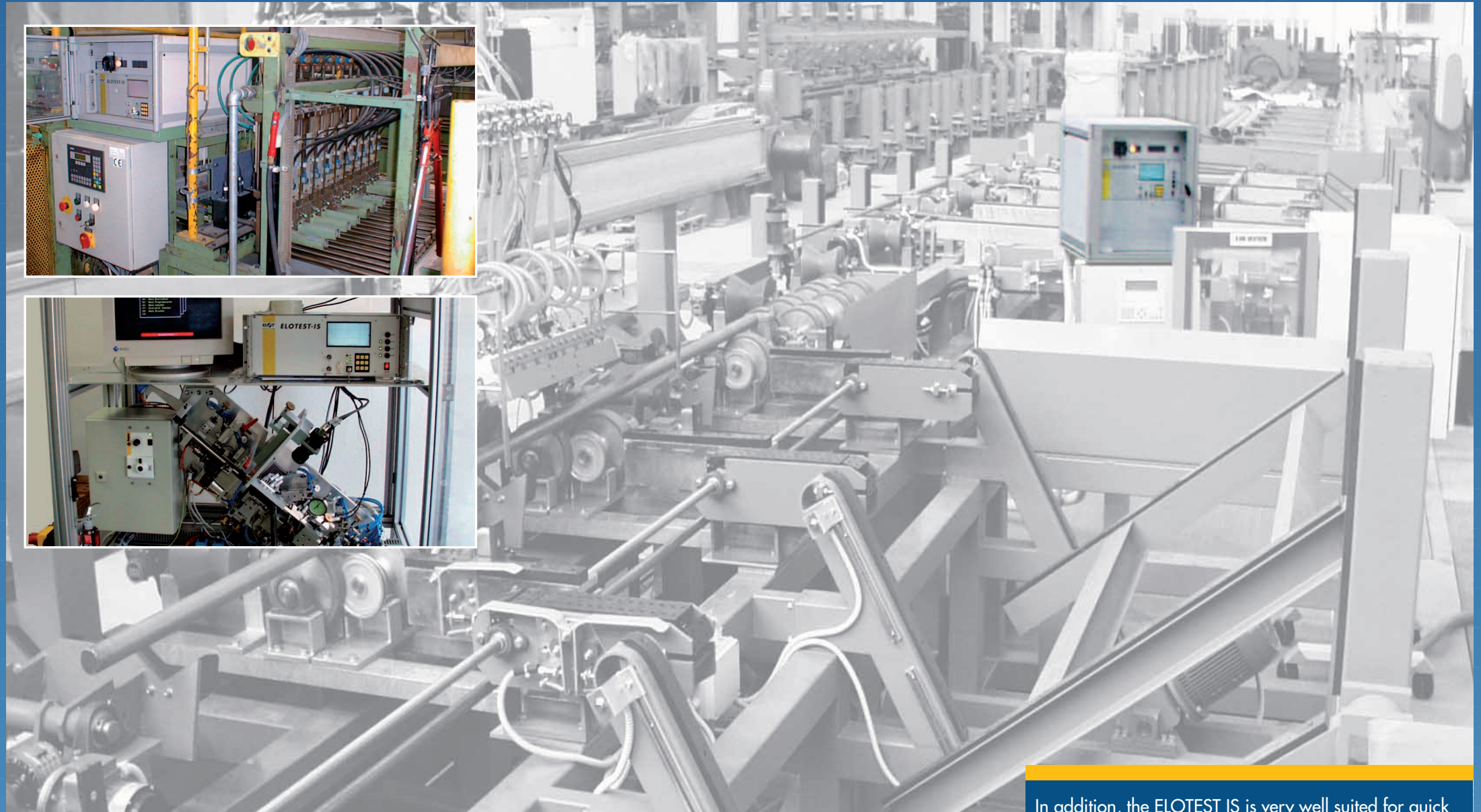
Assuring quality in the production line – identifying and – where needed – reliably removing parts with unacceptable deviations, defects, corrosion and wear during production.

As a method of non-destructive materials inspection eddy current testing identifies material defects such as cracks and other inhomogeneities in electrically conductive materials.

The ELOTEST IS has been optimized for use in production lines with a high throughput of continuous goods and component parts. It is extremely well suited for the automatic inspection and evaluation of mass-produced parts during production.

The ELOTEST IS evaluates the electrical conductivity and the magnetic properties of the material. Characteristics of structure and alloys as well as differences in stability and hardness or geometric deviations and defects are recorded.

The ELOTEST IS is very easy to operate. A clearly structured keypad with just nine keys ensures intuitive access to all functions and a quick understanding of the instrument's operation. Pictographs and clear-text messages support the assignment of operating functions.



In addition, the ELOTEST IS is very well suited for quick dynamic sorting in production lines. Any material properties that refer to the electrical and magnetic behavior of the parts e. g. geometry, stability or tempering may be sorting criteria.

In the sorting-mode the ELOTEST IS uses a special high-speed technology and is able to inspect up to 100 (!) parts per second. Here each part generates a dynamic signal whose maximum value is stored and displayed as a dot on the screen. A variety of gates and counters (including percentage values) are available to evaluate the test results and trigger sorting switches.

Moreover, the ELOTEST IS may be used to simultaneously detect defects and sort according to material properties. Up to 12 channels may be operated simultaneously by the same system.