

ELOTEST \ **PL650** with FLEXITEST

Flexible and precise 3-axis Eddy Current inspection system
for the detection of cracks and grinding burn



The mechanical system is manufactured by
N-DECT GmbH, the integrated test instrument,
the probes and the evaluation software are
manufactured by Rohmann GmbH

ELOTEST \ PL650 with FLEXITEST

Customisable standard system

A specialized machine, ready-made, yet adjustable to your needs. FLEXITEST makes it possible for you to carry out the quality control of individual parts and small series quickly, in a transparent and reproducible manner. In combination with any additional handling, FLEXITEST can be extended to be a fully automatic series testing system.



This compact and modular system fills the gap between a hand-held device and a fully automatic testing system. The automated testing process starts after the test object has been inserted. The test object is clamped into a precision chuck and set into a highly accurate rotation.

The probe moves round the shape of the test object by means of two interpolating axes and an additional swiveling axis. After completion of the test, the sorting result is visually displayed to the user and all test data and logs are automatically stored.

All current process and machine data are displayed on the two 21" and 15" operating touch panels. The intuitive HMI design supports the operator in an optimal manner during all steps of the process.

FLEXITEST is manufactured and is being continuously further developed in Germany, but can be used flexibly across the world.

FLEXITEST - developed and manufactured in a small town in Franconia, produced for production-related use worldwide



Precision chuck for clamping the test object, in this version shown with a clamping diameter of up to 450 mm

With the wireless Data Matrix device or the handheld QR code scanner, information on probes, testing tasks and for operators can be read in and automatically processed with one click error-free. After the replacement of a probe, for example, this saves you valuable time, which you may prefer to dedicate to the testing of your components. In addition, this procedure ensures the correct application of the appropriate probe.



ELOTEST PL650 with FLEXITEST – special features

3D AXIS MOVEMENT

The kinematics of the probe make a pivoting angle of 145° possible, simultaneously interpolating with regard to the feed and advance motion. Guide your instrument closely round the component shape to achieve testing results of the highest quality. Owing to the flexible G code programming you can follow round any conceivable component shapes.

NEW RAPID CHANGEOVER

The testing probe can be replaced in no time at all, the comprehensive system and sensor monitoring system ensures the highest test reliability.

21" REMOTE

ELOTEST PL650 RC in an air-conditioned control cabinet, display and operation via a 21" touch display. Hard- and software for the operation and the support are integrated by means of a remote access.

NEW AUTOMATIZED

Clamp the test object either manually or automatically as desired, to increase your process reliability and to offer yourself the possibility to test fully automatically, with integration in robotic cells.

ELOTEST \ PL650

with FLEXITEST

FLEXITEST is suited for both the flexible testing of individual parts and prototypes, as well as for the repeated testing of serial components.

The rapid changeover system for probes makes it possible to quickly replace the testing sensor without tools. The machine recognizes the probe replacement and requests the read in of the type of probe. This is carried out with the aid of the handheld QR code scanner. This reduces the need for recurring inputs and avoids collisions. The QR code scanner can also be used to enter order and testing data and then to apply them according to your defaults for the type preselection and the creation of test reports.

A special sensor is provided in order to avoid collisions through incorrect clamping and thus protects your system from any serious damage to the axis system.

Our remote maintenance solution makes it possible for us to give you perfect support and to check the condition of your machine within a short response time. You can use our own developed software feature ND-Suite to store the programs you have created on external data media and to download test and machine data to your data base system.



Technical Data

GENERAL

- ▷ Ambient temperature 10 - 40 °C
- ▷ Rel. air humidity: 5 - 80 %
- ▷ Electr. connection: 400V AC, 16 A (separate N and GND)
- ▷ Compressed air: min. 6 bar, purified and dry (only, when the object is clamped between cone heads)
- ▷ 1,100 mm x 1,100 mm floor space, height 2,500 mm

MACHINE FEATURES

- ▷ Up to 2,500 test object formulations
- ▷ Speed of rotation: 600 rpm max.
- ▷ Integrated master tests
- ▷ ND-Suite: test and machine data monitoring, back-up

TEST OBJECTS

- ▷ Test diameter: from 50 mm (smaller, if necessary) to 450 mm
- ▷ Height: 250 mm max.
- ▷ Weight: 80 kg max., depending on the clamp
- ▷ Testing of the inner and outer surfaces, upper front, punctures and shoulders etc.



Experience material test testing with FLEXITEST in a totally new and intuitive manner. Contact us, we already have the best test solution for your process.



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