

Wizard Auto 100 KN- Automatic Flexural Testing Machines-FT010



Description:

Main features include:

- Rigid welded steel construction
- Accuracy Class A starting from 10% of full scale (from 1% on request)
- Two channels for load sensors
- Wide graphic display 128 x 80 pixel
- Graphic printer available as option
- AC motor fitted with VFD INVERTER device: high efficiency, low consumption, silent operation
- Dual stage pump for fast approach and automatic switch to high pressure for loading
- Second frame optional facility

Features:

WIZARD AUTO is CONTROLS new standard automatic Quality Control machine for compression and flexural testing and includes many new features and enhancements to improve the user-friendliness, efficiency, Operator comfort and energy savings.

QC testing performance has just taken a step change improvement with CONTROLS abandoning manual test control and now features automatic closed-loop PID control of loading-rate using VFD inverter-technology control of the high specification AC motor.

Wizard Auto automatically and accurately performs tests at the correct test speed, ensuring compliance to Standards and with no effect due to operator variables.

Mainly dedicated to routine failure tests (compression, flexure and indirect tensile), WIZARD AUTO is the perfect solution to ensure total certainty of testing accuracy and strict conformity to international Standards. In fact being an automatic system it allows:

- **Reduced opportunities for operator errors**, improving accuracy of results and repeatability
- **Easy-to-use:** even for operators with limited expertise.
- **Conforming to Standards:** the machine automatically performs the test at correct test speed. Conformance to Standards can be easily proven.
- **High performance:** high speed pump closes the daylight above the specimen at the fastest speed allowing a very high throughput of tests.
- **Operator comfort** due to the significant noise reduction.
- **Energy saving**, with 50% reduction in energy consumption.

Specifications:

WIZARD AUTO AUTOMATIC POWER AND CONTROL SYSTEM

Hydraulics

- Max pressure 700 bar
- Power 750 W
- Dual stage pump: low pressure/high delivery for fast piston approach and high pressure/low delivery for loading.
- AC motor fitted with VFD inverter device featuring high efficiency, reduction of power consumption and silent operation.
- Second frame optional facility using valve selector.

Hardware

- Two 16 bit analog channels for load sensors
- Wide graphic display 128 x 80 pixel
- Sampling rate 50 Hz
- Internal memory
- RS 232 port for data download (including load/time graph points) to PC in ASCII format
- Integrated printer as optional.

Firmware

- Real time display of load and stress
- Automatic application of the selected load rate Execution of loading ramps with the possibility to manually increase or decrease the test speed during the test
- Peak detection and saving
- Language selection
- Multi-coefficient linearization of the calibration curve for better accuracy at low loads
- Multiple units: Lbf / Ton / KN

Frame

Capacity (KN) 100

Vertical daylight (mm) 215

Horizontal daylight (mm) 700

Ram Travel (mm) 100

Pressure transducer bar 350

63 dia x 45 mm,

Distance piece 63 dia x 90 mm,

Weight (kg) 250 kg approx

Sample dimensions 100 x100 x500 mm
150 x 150 x 700 mm

Products:

FT010-WIZARD AUTO

Wizard Auto: Automatic Flexural Testing Machine 100KN

WIZARD Auto Compact-Line Flexural testing machine confirming to IS for beams 150x150x700, 100 x 100 x 500mm. 230 V, 50-60 Hz, 1 ph