

DATA SHEET

WIZARD Auto SMART Line Automatic Control Console



Wizard AUTO Smart-Line

General description

WIZARD Auto is also available in a stand-alone configuration providing a cost-effective way to retrofit any make of compression testers fitted with old Bourdon gauges or unreliable electronic readout unit and power pumps with manual flow control. Our SMARTline Control Consoles will transform any old testing system into one that is automatic and fitted with the latest technology.

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.

Main features

WIZARD Auto is CONTROLS new standard automatic Quality Control system 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 feature 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.

DATA SHEET

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. See accessories

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

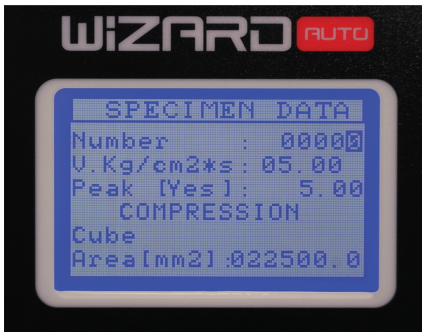
Multiple units: Lbf / Ton / kN.

Physical Specifications

Overall dimensions: (hxlxd) 1292x350x450 mm

Weight approx .: 80 kg

DATA SHEET



Test settings



Test menu



Language selection

Products

50-C10W02

WIZARD AUTO SMART Line automatic console for compression and flexure frames including hydraulic power and control unit. - WIZARD AUTO automatic control system - Closed loop control of the load rate achieved with a variable frequency drive (inverter) for high accuracy, energy saving and noise prevention - HMI LCD display 128 x 80 pixels with 6 keys membrane keyboard - RS232 serial port for data transmission (including load/time values for graph plot) in ASCII format - Integrated printer available on request - Internal permanent memory - Second frame option available on request - Accuracy (when connected to suitable frames): Class 1 (EN), Class A (ASTM) starting from 10% of full scale. 230V/50-60Hz/1Ph

DATA SHEET

50-C10W04

WIZARD AUTO SMART Line automatic console for compression and flexure frames including hydraulic power and control unit. 110 V, 60 Hz, 1 Ph



Accessories and consumables

50-C10W/2F

Second frame facility for WIZARD AUTO series. Frame selection via manual lever

50-Q60W/PR

Upgrading the WIZARD AUTO series to incorporate a serial graphic printer in the rear panel