



CONSTRUCTION MATERIALS TESTING SOLUTIONS

WIZARD **AUTO**

SMARTline Automatic Control Console

SMARTline SERIES



Automatic Quality Control Unit for Compression and Flexural Testing

WIZARD Auto Smart Line console is CONTROLS' new standard automatic control unit for compression and flexural testing. This new console will transform any manual or semi-automatic compression machine into a fully automatic testing system so you can benefit from the latest technology and retain your existing frames.

Easily retrofit your existing frames in three easy steps



Connect the WIZARD Auto Console with up to two existing frames and perform all your standard QC testing automatically in three easy steps.

1 Get rid of the existing controller

Disconnect and remove the hydraulic pump and display or Bourdon gauge fitted on the machine.

2 Connect the Wizard Auto console

Connect the console using a new hose and pressure transducer, then perform load calibration.

3 Start testing

Enjoy all the benefits of automatic testing!

WHAT WE NEED TO KNOW TO RETROFIT YOUR EXISTING MACHINE

- ✓ Frame capacity
- ✓ Max working pressure
- ✓ Piston travel
- ✓ Confirmation the piston is single effect (return by gravity or counterweights)



Save money by retrofitting your existing frame, alleviating the need to purchase a whole new compression testing system.



Increase your efficiency by managing up to two frames with one single unit (not at the same time).



Get rid of outdated manual or semi-automatic controllers and automate your testing with the latest available technology.

Flexible use with two analog channels for load sensors to connect an optional second frame.

Highly efficient, quiet and energy saving AC motor fitted with Inverter lowers running costs and is more environmentally-friendly.

Fast approach with dual stage pump and automatic switch to high pressure for loading improves productivity and efficiency.



User-friendly wide graphic display (128 x 80 pixel) for increased user comfort.

Streamlined printing process with optional integrated graphic printer.

RS232 for quick and simple data download in ASCII format.

High accuracy with 16-bit effective resolution (65,000 datapoint).

BENEFITS



No human error

Greatly reduces opportunities for operator errors, improving accuracy of results and repeatability.



Easy to use

Easy to use, even for operators with limited expertise.



Conforming to Standards

The machine automatically performs the test at correct test speed and 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.



Quiet operation

Increased operator comfort due to the significant noise reduction.



Energy saving

Respects the environment with up to 50% reduction in energy consumption.

SPECIFICATIONS

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
- 50 Hz sampling rate
- Internal memory
- RS 232 port for data download (including load / time graph points) to PC in ASCII format
- Optional integrated printer available

Firmware

- Real time display of load and stress
- Automatic application of the selected load rate
- Peak load detection and saving
- Language selection
- Multi-coefficient linearization of the calibration curve for better accuracy at low loads
- Multiple units: Lbf / Ton / kN

▶ **CONTROLS Customer Care**

At CONTROLS we are proud of our products. As one of the longest established manufacturing companies in the world of Construction Materials Testing solutions, we are dedicated to supplying high quality, accurate, affordable, easy to use systems.

As a valued customer of CONTROLS, you will receive continuous, expert support and advice for your equipment. Furthermore, we can offer full installation and training in the correct operation of your CONTROLS equipment.

- ▶ For support from our expert Customer Care Team, contact your local CONTROLS office / distributor or email **customercare@controls-group.com**.
- ▶ To order or upgrade your product, please contact our sales department at **sales@controls-group.com**.

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