



# **SMART-Line control consoles**

for Hydraulic testing frames



**NEW SMART-Line** control consoles

# offer MORE...

# Discover the Advantages!

- Flexibility The wide range covers many applications
- Modularity Expandable up to 3 frames, controllable either by display or PC, several programmable test modules
- Technology Efficient Energy Saving solutions, powerful double-stage hydraulic, advanced electronics
- Reliability CONTROLS' compression machines have been in use around the world for over 40 years. We know how!
- Precision Top quality of components ensures constant accuracy of results
- Productivity Up to 40 tests per hour
- Functionality Stylish design with particular attention to the ergonomic interaction with the operator
- Safety Conformity to international regulations and Standards









for Hydraulic testing frames



CUSTOMER'S VALUE DRIVES THE INNOVATION

Adopting the innovative CVI TECH concept which leads CONTROLS' development strategy, the new consoles feature:

- > Efficient Technology
- > Intuitive and Smart Software
- > Functional and Industrial Design
- > Modular Expandability

# PILOT SMART-Line and AUTOMAX SMART-Line

New SMART-Line consoles for AUTOMATIC control of hydraulic compression and flexure testing frames from 15 to 5000 kN. Main features:

- > Automatic compression and flexure test execution
- > Adopt the latest ES Energy Saving technologies for reduction of power and silent operation
- > Double stage hydraulic pump with rapid approach and precise oil flow control allowing high throughput of accurate tests (up to 40 samples per hour)







**PILOT** + compression and flexure frames



RUTUMAX

- > Equipped with advanced electronics ensuring superior precision, high stability and effective resolution
- > Optional control of a second frame
- > Optional internal graphic printer including Load-Time plot
- > Connect to laboratory network via LAN port
- > Compatible with the new intuitive and smart DATA MANAGER software, very easy to use, complete with many functions, totally flexible, open to network communications
- > Dual user interface display and PC
- > Allow remote verrification of settings and performances for easy debugging of unexpected malfunctions



# **AUTOMAX SMART-Line**Additional performances:

#### PC control option

Double user interface based on display and PC. When connected to a PC, the system is fully computerized and controlled by the Data Manager software

## • Fully automatic test cycle

The complete test cycle with closed loop digital feedback is automatically performed by simply pressing the start button. The load-time graph and the actual load rate are displayed in real time during the test. Correct test execution according to the selected Standard, is continuously and automatically controlled.

# •Third frame control option

AUTOMAX can be upgraded for the non simultaneous control of a third frame as, for example, flexure testing frame and cement compression frame. Active frame selection is made via the display/software.

# Semi Automatic

## **DIGIMAX SMART-Line**

New SMART-Line console for semiautomatic control of hydraulic compression and flexure frame from 15 to 5000 kN

#### Main features:

- > Double stage hydraulic pump with rapid approach and precise oil flow control allowing high throughput of accurate tests (up to 40 samples per hour)
- > Soft platen-to-specimen contact and smooth load rate control
- > Equipped with advanced electronics ensuring superior precision, high stability and effective resolution
- > Optional control of a second frame
- > Optional internal graphic printer including Load-Time plot
- > Connect to laboratory network via LAN port
- > Compatible with the new intuitive and smart DATA MANAGER software

modular

# expandability



**AUTOMAX** + compression and flexure frames (concrete) + compression frame (cement)



efficient



**AUTOMAX** + compression frame



**AUTOMAX** + compression and flexure frames



**DIGIMAX** + compression frame (ASTM)



**DIGIMAX** + compression frame



**DIGIMAX** + compression and flexural frames

# intuitive

# smart software



# PILOT SMART-Line GUTOMAX SMART-Line

### Ordering information

• 50-C10C02 PILOT Smart-Line stand-alone control console. 230 V, 50-60 Hz, 1 ph.

Note: for 110 V, 60 Hz, select 50-C10C04

• 50-C10D02 AUTOMAX Smart-Line stand-alone control console.

230 V, 50-60 Hz, 1 ph.

Note: for 110 V. 60 Hz. select 50-C10D04

### Upgrading options

• 50-C10C/2F Upgrading of PILOT with a second frame connection

• 50-C10D/3F Upgrading of AUTOMAX with a third frame connection

Note: upgrading options shall be factory installed

# DIGIMAX SMART-Line

#### **Ordering information**

• 50-C10B02 DIGIMAX Smart-Line stand-alone control console. 230 V. 50 Hz. 1 ph.

Note: for 110 V, 60 Hz, select 50-C10B04; for 220V, 60Hz, select 50-C10B03

# **Upgrading options**

• 50-C10B/2F Upgrading of DIGIMAX with a second frame connection

Note: upgrading options shall be factory installed

## Upgrading options and accessories for all SMART-Line consoles

- 50-C10/PR Upgrading of PILOT, AUTOMAX and DIGIMAX with a serial printer incorporated in the control panel
- 82-SW/DM DATA MANAGER PC software, for remote control of the system (AUTOMAX only), real time data acquisition and management of test data (AUTOMAX, PILOT and DIGIMAX)





Test execution	AUTOMAX	PILOT	DIGIMAX
Automatic <b>plus</b>			
Automatic			
semi Automatic	·		

INCLUDED O OPTIONAL

L'est			
	AUTOMAX	PILOT	DIGIMAX
Dual stage pump with DC motor	•	•	-
Dual stage pump with AC motor	_	-	•
ES energy Saving Technology	•	•	-
Effective resolution	132,000 points	132,000 points	132,000 points
Touch screen graphic display	240 x 128 pixel	240 x 128 pixel	240 x 128 pixel
Sampling rate	50/sec	50/sec	50/sec
USB pen drive	•	•	•
Ethernet port	•	•	•
Control mode	By PC By control panel	By control panel	By manual proportional valve
Real time management software	0	0	0
Serial graphic printer	0	0	0
Two frames control	•	0	0
Three frames control	0	-	-
Overall dimensions (mm)	1292 x 350 x 450	1292 x 350 x 450	1292 x 350 x 450
Weight approx. (kg)	80	80	80

