

FLEX TEST LOAD FRAME C TYPE

150KN AND 350KN RANGE

101-C0064-6XXX Series

Standard: EN1 2390-5, ASTM C78 & C293

101-C0064-6115 FLEXURAL 150KN FRAME HIGH STABILITY WELDED
FOR FLEXURAL TESTS ON CONCRETE BEAM SPECIMENS MAX. DIMENSIONS
150X150X600 (750) MM
STANDARDS: EN 12390-5 , ASTM C78, C293 , AASHTO T97 , BS 1881:118
Max. vertical daylight between upper/lower rollers: 160 mm
Rollers dimensions: Ø 40x160 mm
Complete with 4 adjustable and articulated rollers.
Distance of lower rollers adjustable from 100 to 455 mm
Distance of upper rollers adjustable from 40 to 155 mm
Max. ram travel 50 mm approx.
Calibration accuracy: class 1.0
Hydraulic device to stop the piston stroke at its max excursion, to avoid
pumping the piston out of the cylinder.
Power supply: 230V 1ph 50Hz 750W
Dimensions: 540x460x960 mm
Weight: 180...240 kg approx.

101-C0064-6135 FLEXURAL 350KN FRAME HIGH STABILITY WELDED COMPLETE

STANDARDS: EN 12390-5, 1339, 1340, 14488-5 | ASTM C78, C293, C1550

- FLEXURAL TESTS ON CONCRETE BEAMS
- FLEXURAL TOUGHNESS OF FIBRE REINFORCED CONCRETE (FRC) SLABS
- ENERGY ABSORPTION TEST ON SPRAYED CONCRETE SLABS

Basic Specification

- 1 mm deformation every 200 kN.
 - Easy positioning of the specimen with a trolley or forklift.
 - High precision load cell.
 - Possibility to test any type of specimen: beams, flagstones, blocks, kerbs, FRC, slabs.
 - Graduated scales for an easy rollers adjustment.
 - Piston travel limit device.
 - Simple action piston with counterweights.
 - Easy rollers adjustment.1
- Power supply: 230V 1ph 50Hz 750W.

Physical spec

Horizontal daylight of the testing chamber 980 mm
Max. vertical daylight between upper/lower rollers 263 mm
Upper rollers adjustable distance From 75 to 210 mm
Lower rollers adjustable distance From 75 to 850 mm
Ram travel 140 mm
Dimensions 600x1240x1400 mm
Weight (approx.) 900 kg

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Load frame only options

These load frames can be supplied as "Load frame only" with additional valve hardware can be added to a compression machine as a two Load Frame group

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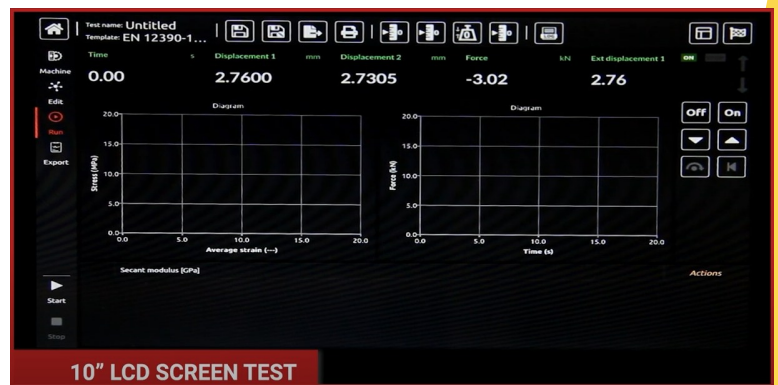
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Machine Interface

The control system is easy to use with its user-friendly interface and is compatible with all Sensor devices.

10.1 inch touch panel as standard and other options available. Provided with special Universal testing software installed and templates enable test run in a few simple touches.



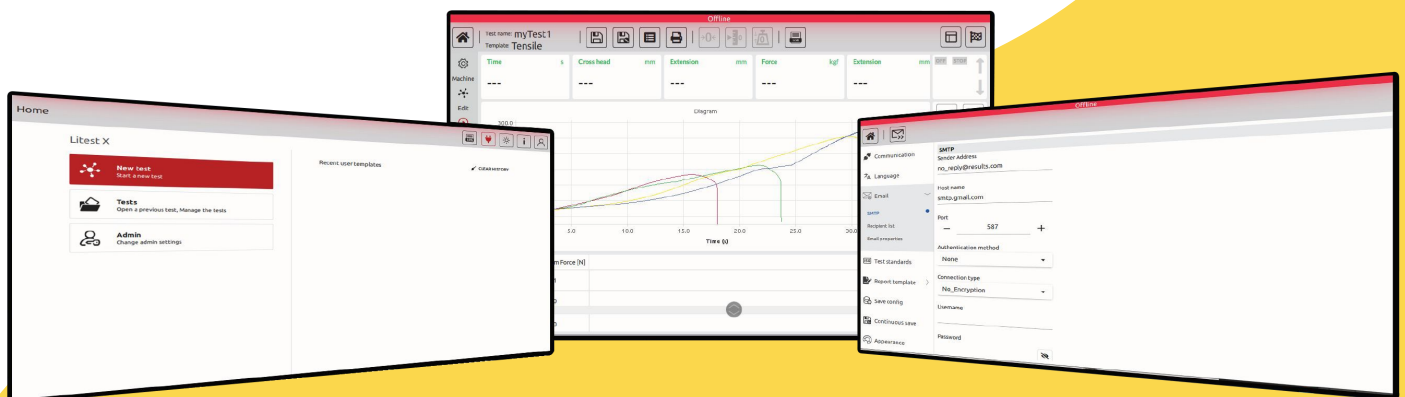
10" LCD SCREEN TEST

PC Interface

The machine can directly Interface to a PC using USB

The system can be driven from the PC using the advanced software provided.

The images Below are from a PC controlling the machine



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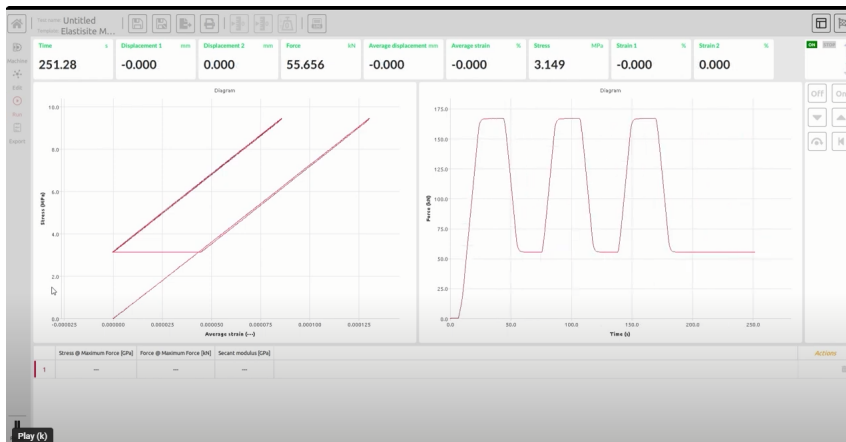
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Control System Specification

Universal digital measurement and control electronics for testing machines

- Analog input amplifier with DC supply and 24-Bit resolution
- Test frequency up to 100 Hz
- Measurement and control frequency up to 1 kHz
- Configuration, calibration and control tuning with PC software
- Suitable for all kind of static and dynamic testing
- 3 channels independent incremental digital sensors
- 4 separated fully differential analogue channels
- Analog amplifier Input range: ± 5 mV to ± 10 V
- Adjustable filter time with up to 1000ms @ 1 ms system time
- Operating unit remote-control based on RS-485 communication
- Safety emergency system
- 8 channels logical sensors with SI units
- 8 channels controller parameters
- 8 channels linearization each channel up to 12-points
- 4 channels calculated sensors
- 16 channels Universal digital IO
- Control IO feature with selectable functions
- Synchronous Serial Interface input
- ± 10 V analogue and digital command output
- Serial interface for external electronics • Monitoring of safety relevant drive signals
- Support of position limit switches
- Grip control feature
- Supply and monitor of drive control signals
- Ethernet and USB communication
- Firmware updating capability



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