

S301N**Triaxial load frame 50kN, digital “Touch-Screen”**

This versatile, compact, heavy duty load frame has been designed for routine tests, for central laboratories, but also for research purposes.

The frame is of rigid chromed steel twin column construction.

The electronic color digital “touch-screen” display with microprocessor control system allows to perform tests within a speed range of 0,00001 to 12 mm/min.

The maximum load capacity is 50 kN, and it is suitable either for cells S305

(max. specimen size 70x140mm) and S306 (max. specimen size 100x200mm),

Matest or other manufacturers made. The system guarantees high resolutions in real time.

The load plate is foreseen of electric end of stroke, to save the machine from wrong manipulations.

Specifications of the frame:

- Maximum load capacity: 50kN
- Infinitesimal testing speed: from 0,00001 to 12 mm/min.
- Minimum vertical clearance: 400mm (140mm with ring)
- Maximum vertical clearance: 1100mm (840mm with ring)
- Horizontal clearance: 380 mm
- Platen diameter: 177 mm

Firmware:

- Electronic control unit “Cyber-plus Evolution” with Touch-Screen color graphic display ¼ VGA, that runs like a standard PC based on Windows operating system for the management of the data. (Analysis of the data, test results, graphs with S335-10N software; optional accessory).
- The Touch-Screen icon interface allows an easy set-up of the parameters and immediate execution of the test.
- The machine can perform the tests without any external PC, because of the “Cyber-Plus” grants performances like a PC.
- Direct connection to Intranet (connection to a LAN network) and Internet to establish a remote communication and receive an immediate diagnosis from Matest technicians, or for upgrades of the Firmware.
- Unlimited memory storage with: 2 USB ports, 1 SD card.
- Possibility to select different languages.
- Hardware technical details: see pag. 24



S301N with data acquisition



S301N with load ring

- The machine is equipped with 8 connectors for the acquisition and data processing system up to 8 analogical/digital channels (that is activated with the S301-05 optional firmware) for load cells and transducers. Extra slot available to expand the on-board channels to 16 (with S301-06)
- The frame is supplied with loading ram and sphere, but **“without”** load rings, dial gauges, electric load cells or displacement transducers that **“have to be ordered separately”** (see next pages).
- Power supply: 230V 1ph 50/60Hz 600W
 Dimensions: 490 x 510 xh 1800 mm
 Weight: 115 kg

UPGRADING ACCESSORIES:**S301-05****FIRMWARE FOR ACQUISITION AND DATA PROCESSING**

system up to 8 analogical/digital channels for load cells and transducers.

Graphic and numbers visualization, processing, printing and storing of the test results.

This software activates the 8 connectors foreseen on the load frame.

S301-06

8-CHANNEL INTERNAL MODULE, for system expansion to 16 channels of the triaxial load frame. This upgrade is possible only in Matest factory.

S335-10N

SOFTWARE TRIAXLAB CONNECT & REPORTS See page 457



Detail of 8 channels



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