

Servo hydraulic universal testing machine

Universal Testing Machines are high-capacity systems with single test space and suitable for tensile, compression, flexure tests on a wide range of different materials such as round, flat and profile specimens for quality control, product development, research or process development. Testing systems for brittle materials such as steel or fasteners requires high stiffness load frames that minimize the amount of deformation energy that is stored in the frame.



➤ Features:

- Rigid 4 columns construction providing superior axial and lateral stiffness and precision alignment.
- Closed-loop servo controlled hydraulic power pack for accurate test control.
- High speed electronic control and data acquisition unit for accurate test results.
- Multifunctional Remote-Control Handset for fast test setup and testing
- Single test space design with convenient vertical testing clearance.
- Double acting servo-actuator mounted on top of the crossbeam
- Actuator with anti-rotation system to prevent the natural tendency of the actuator to rotate.
- Long piston stroke for the most convenient and easy adjustment and testing of different sample lengths.
- Digital displacement transducer for the best positioning and measuring accuracy.
- Easy calibration procedure.

- Chrome plated columns for easy cleaning and longest life.
- Hydraulic Wedge Actions Grips.

- Grip control system mounted on the frame.
- Compression platens or bending devices may be fixed directly into wedge grips.
- Limit switch on the piston as well as the safety limit valves on the hydraulic system.

➤ **Product parameters:**

Pump delivery	5 litre/minute, 280 bar 3 kW motor rate
Loading-unloading	± 0,5% rate accuracy
Electrical Power Supply	230V AC, 50Hz
LCD display	240 X 320 pixel
Resolution (µm)	1 or 0.1
Operating Temperature Range (0C)	0-50
Indication Error (µm)	1.5
Positioning Distance (mm)	190