



# FULLY AUTOMATIC SERVO CONTROLLED UNIVERSAL TESTING MACHINE

Suitable for metallurgy, construction, light industry, aviation, aerospace, materials, colleges and universities, scientific research institutes and other industries / fields to perform a wide range of test methods including tension, compression and bending tests of metals and non-metals, steel rebars, nuts, bolts, wire-strands, concrete, cement and many other construction materials.

PC and servo controlled machines come complete with upper and lower hydraulically operated jaws and high precision load cell providing high accuracy. Servo controlled systems can carry out tension test, compression test, bend test and flexure test by two pace rate type including load control and displacement control. Those two control parameters can be switched during the test. According to the preset condition, the systems can realize constant-rate loading, loading according to preset curve, testing with constant-rate displacement. It displays real-time stress-strain curve, load-deformation curve, load-time curve and other related curves, at the same time, can save, output, print test report and data with customized format.

## Specifications

Model	: UTM3000SC
Capacity max.	: 3000 kN
Measuring range	: 60 ~ 3000 (2% - 100% FS)
Relative error	: $\leq \pm 0.5\%$ of indicated value
Displacement measurement resolution	: 0.005 mm
Maximum tensile test space	: 800 mm
Maximum compression space	: 650 mm
Piston stroke	: 300 mm
Round specimen clamp diameter	: $\Phi 30 - \Phi 90$ mm
Maximum clamping length	: 220 mm
Compression platen size	: $\phi 260$ mm
Piston diameter	: 400 mm
Pistons speed at empty load	: 70 mm / min
Clamping mode	: Hydraulic
Distance between lead screw	: 760 mm
Beam moving speed around	: 260 mm / min
Main unit weight around	: 12000 kg
Main unit dimension around	: 1300 × 1090 × 3600 mm

## Features

- ▶ Motorized Control Valve.
- ▶ Load accuracy  $\leq \pm 1\%$ .
- ▶ Simple controls for ease of operation.
- ▶ Real Time graph, User friendly software.
- ▶ Printer & PC graphs enable study the behavior of the material.
- ▶ Straining at variable speeds to suit a wide range of materials.
- ▶ Easy change from plain to threaded and screwed specimens.
- ▶ Large effective clearance between columns enables testing of standard specimens as well structures.
- ▶ Motor driven threaded columns for quick effortless adjustment of middle crosshead to facilitate rapid fixing of test specimen.
- ▶ Robust straining frame of an extremely rigid construction.
- ▶ Fully enclosed and protected pressure transducer.

## The kit includes

Extensometer, Laser extensometer, Brinell test Attachment, Bend Test Attachment, Shear Test Attachment and a wide range accessories offered on request at additional cost.

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