

UNIVERSAL TESTING MACHINE

300 KN



1. Introduction

The Universal Testing Machine is driven by Servo-hydraulic cylinder. The main components of machine are the electro-hydraulic servo control system, sensor and micro computer system, frame system, and oil tank (hydraulic power source). The machine is applicable for tension, bending, compression, tearing and shearing test for small specimen, reinforced plastics, metals, wire, composites, elastomers, wood products, textiles, biomaterials, paper products, adhesives, foam, and consumer products.

2. Features

- 2.1 The machine is fully computer control with professional test software and equipped with portable control keypad with functions of Up, Down, Stop, Jog up, Jog down, and test start.
- 2.2 Controller offers high speed and closed loop control of load, displacement and extension. reliable IC, 20bit resolution, 16 digital input/output port, built-in port for PC communication, either by RS232(COM) port or USB port, expandable ports load protection, over-current protection, over-voltage protection, over-speed protect, and over-travel protection.
- 2.3 Versatile removable grips and fixtures can be changed rapidly to meet variable wider applications in tension, compression, flexure, peeling, tearing, punch, and shearing.

3. Specifications

Model	XXX-300X
Capacity	300 kN
Calibration standard	Class 1
Force range	1% ~ 100%FS
Force accuracy	±1 % of reading
Deformation rang	1% ~ 100%FS
Deformation accuracy	±1 % of reading
Position accuracy	±1 % of reading
Position resolution	0.001mm
Force speed control accuracy	±2 %
Position speed control accuracy	±1 %
Force loading speed	0.02%~2%Fs/S
strain rate control accuracy	2%
Force deformation position keep rang	0.3%-100%FS
Force deformation position keep accuracy	1%
Beam move speed	320mm/ min
Maximum compression space	600mm
Maximum tension space	700mm
Piston stroke	200mm
Compression plates size	φ150mm
Dimension frame	800*620*1900mm
Dimension control box	800*600*1600mm
Weight frame	1600kg
Weight control box	300kg
Power	3-Phases, AC380V, 50Hz, 1.1KW