

2000 KN Computer Control Robot Full Auto Electronic Tensile Testing Machine



Picture is for reference only

Overview

microcomputer controlled automatic tensile testing machine consists of Electronic Universal Testing Machine, double-sided push-pull hydraulic automatic stretching fixture, flat push clamp servo oil source, digital longitudinal automatic extensometer, and Extensometer's program-controlled automatic advance and retreat device, front gantry type three-dimensional automatic loading specimen main robot device, six-side 60-station servo control rotary specimen rack device, specimen automatic centering finishing device, specimen automatic measuring device, follow-up automatic unloading Double robot device, automatic specimen sorting device, piano main console, digital full-closed multi-channel controller, computer and software system, measurement and control system, PLC manual control box, gas island control system, compressed air boost The system consists of a voltage regulation system, an electric drive system, safety protection and automatic shutdown alarm.

The equipment can work continuously for 24 hours, ensuring that the effective working day is more than 350 days and the annual effective working time is more than 8400 hours.

Main Parameters:

Main host and controller	
With horizontal adjustment column, set expansion bolt foot	
Max. load	2000KN
Testing level	0.5 Class

Driving way	Servo control, electric servo, medium control gas island
Operation type	Automatic / manual stretching at room temperature
Test speed	0.001-200mm/min stepless setting
Speed accuracy	±0.5%
Speed control mode	displacement, load, stress, strain can be arbitrarily selected and switched within the stretching phase.
Full load speed and speed accuracy	200mm/min, ±0.5%
Power supply	Three-phase 10kW
Load sensor	
Measuring accuracy level	0.5 class
Load resolution	500000 yards (equivalent to 1.2N)
Stress control accuracy	±0.5%
Strain control accuracy	±0.5%
Displacement	
Measurement range	0 ~ 550mm
Digital longitudinal automatic extensometer	
Accuracy level	Exceeds EN10002 level 0.5 standard;
Working temperature	0--50 °C
Measurement position	Configuration of rodless two-way cylinder, linear guide, automatic advance and retreat for measurement
Supercharger	The main control box of the extensometer has an inflatable protection device to prevent dust from entering
Double-sided flat push hydraulic automatic stretching fixture	
Double-sided push-pull hydraulic clamp	jaw clamping range: 0-60mm (can hold specimen with certain deflection)
Max. Clamping force	2000kN
Specimen double section size automatic measurement system	
Specimen type	Rectangular shape specimen
Measurement accuracy	±0.5%
Power supply	Single phase 220V±10%, 50Hz, 500W