



## Single Column Universal Material Testing Machine

Qiantong® is a single column universal material testing machine supplier. This machine is mainly used for testing the mechanical properties of thin film, protective film, adhesive tape and other non-metallic materials with small strength. The addition of fixture accessories can test the functions of stretching, compression, bending, stripping, tearing and so on. The body adopts single-arm structure, small and convenient, does not take up space, which is your ideal laboratory equipment.

## Product Description:

China Qiantong® Single column universal material testing machine adopts full digital force, displacement and speed three closed-loop control in the testing process, adopts Taiwan servo motor and control drive system, with high precision reducer and precision ball screw transmission, in order to achieve the best transmission efficiency and noise ratio.

## Product Parameter of the Single Column Universal Material Testing Machine

1. Maximum test force: 2000N;
2. The testing machine accuracy level: 0.5;
3. The test force measurement range: 2%-100% FS;
4. The relative error of the test force value: within  $\pm 0.5\%$  of the value;
5. The test force resolution: the maximum test force of  $1/\pm 500000$  (the whole resolution is unchanged);
6. Relative error of displacement indication value: within  $\pm 0.5\%$  of indication value;
7. Displacement resolution: 0.0005mm;
8. Force control rate adjustment range: 0.01-2%FS/S;

9. The relative error of force control rate: set value within  $\pm 0.5\%$ ;
10. Beam speed adjustment range: 0.05-500mm /min;
11. Beam speed relative error: set value within 0.5%;
12. Constant force, constant deformation, constant displacement control range: 0.5%--100%FS;
13. Constant force, constant deformation, constant displacement control accuracy: set value  $< 10\%$ FS, it is within  $\pm 1\%$  of the set value; When the set value is  $\geq 10\%$ FS, it is within  $\pm 0.1\%$  of the set value.
14. Maximum drawing stroke (excluding fixtures) : 1030mm;
15. Effective stretching space (net space) : 900mm;
16. Effective test width: 150\*150mm;
17. The main machine appearance size (length  $\times$  width  $\times$  height) : 480 $\times$ 430 $\times$ 1500mm;
18. Power supply: 220V 50Hz 0.4kW;
19. The host weight: about 75kg.

### **Product feature and application of the Single Column Universal Material Testing Machine**

Qiantong® Single Column Universal Material Testing Machine mainly used to test the physical properties of metal and non-metal material products, such as tensile, compression resistance, stripping, tearing, bending resistance, three-point bending resistance, shear resistance and so on. At the same time, according to GB, ISO, JIS, ASTM, DIN and a variety of standards provided by users for testing and data processing. Widely used in auto parts, fasteners, aerospace, wire and cable, rubber, plastic, paper packaging and other industries of material inspection and analysis. It is the testing equipment required by scientific research institutes, colleges and universities, industrial enterprises, technical supervision and commodity inspection arbitration.

### **Single Column Universal Material Testing Machine details**



















