

QUAM-UTM5000 Electric Energy Material Testing Machine

Standard Configuration

main frame Ningbo Fanshun	1
Motor and system research and control of stepping motor	1
ball screw pair Zhejiang Lishui	1
load sensor 5KN	1
standard fixture fixture	1
Tester standard version	1



Introduction

This test measurement and control system is designed for electronic universal testing machine matching set measurement, control in one of the measurement and control instrument. Can be tensile, compression, bending, shear, tear, peel and other tests.

Features

- This machine adopts single-arm structure, lower space compression, beam stepless lifting
- Transmission part adopts circular arc synchronous tooth belt, lead screw pair transmission, stable transmission, low noise
- The specially designed synchronous gear belt deceleration system and precision ball screw pair drive the moving beam of the testing machine to realize the non-clearance transmission

Technical specification

Model	QUAM-UTM5000	
Test machine level	0.5 level	Tensile stroke: 650mm
	Maximum value: 5kN	Host parameters Compression stroke: 800mm
Test force index	Measuring range: 2%-100%	Test width: 380mm
	Accuracy: better than $\pm 1\%$ of the indicated value Resolution: ± 200000 yards	Force control rate control precision when the rate is $< 0.05\%FS$, it is within $\pm 1\%$ set value; Rate BBB 0 0.05%FS within $\pm 0.5\%$ set value
Deformation index	optional	deformation rate adjustment range 0.02-5%FS/S
Maximum value	10mm	Accuracy of deformation rate control when the rate is $< 0.05\%FS$, it is within $\pm 1\%$ set value; Rate BBB 0 0.05%FS, within $\pm 0.5\%$ set value
Measuring range	2%-100%	
Accuracy	better than $\pm 0.5\%$ of the indicated value	Accuracy of displacement rate control when the rate is $< 0.01mm/min$, it is within $\pm 1\%$ of the set value; When the speed is $> 0.05mm/min$, it is within $\pm 0.2\%$ set value
The displacement	Measuring accuracy: better than $\pm 0.5\%$ of the indicated value Resolution: 0.001mm	
Speed	Range: 0.005mm/min ~ 500mm/min stepless speed regulation	Constant force, constant displacement, constant deformation control range: 0.5%~100% FS accuracy: when the set value is $\geq 10\%FS$, it is within $\pm 0.1\%$ of the set value; When the speed rate is $< 10\%FS$, it is $\pm 1\%$ of the set value
	Accuracy: better than $\pm 1\%$ of the indicated value	
Working environment	room temperature 10~35 C , humidity 20%~80%	Host size about 600 x 430 x 1380 mm
Force control rate adjustment range	0.005-5%FS/S	