

Single Column Electronic Universal Testing Machine

Brand: JNG

Model: JG-500

Capacity: 500kg



(For reference only)

Equipment Usage

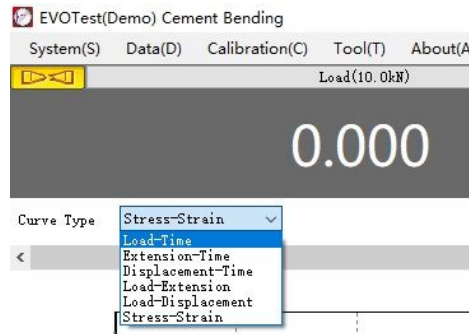
- Electronic Universal Testing Machine is suitable for material analysis and inspection of engineering plastics, reinforced nylon, modified plastics, plastic profiles, plastic pipes, plastic sheets and films.
- JG-500 series of servo motor universal testing machine's performance reaches international advanced level, is widely used for testing the tensile elastic modulus, bending elastic modulus, compression modulus, yield strength, tensile strength, fracture strength, elongation at break, compression stress, compression strain, shear, peel, tear and other mechanical properties of various thermosetting and thermoplastic plastics.



Curve Category

Load VS Displacement Load VS Time Displacement VS Time Stress VS. Strain Load VS Two extension, can be tested and provide data in accordance with GB, ISO, DIN, ASTM, JIS and other international standards.

Load – Time
Load – Displacement
Load – Extension
Extension – Time
Displacement – Time
Stress VS Strain



Conform To The Standards

- Applicable ASTM, DIN, ISO, JIS, BS and other international;
- GB/T2611 <Testing Machine General Technical Conditions> and GB/T 16491 <Electronic Universal Testing Machine> for manufacturing;
- GB/T12160 <Uniaxial testing machine with extensometer requirements> and GB/T16825 <Tensile testing machine> for examination and acceptance.

Features

- High rigidity, high precision, high transmission efficiency Panasonic servo motor and driver.
- Planetary deceleration system drives the ball screw to realize the test loading process.
- Advanced DSP+MCU all-digital closed-loop control system for controlling and measurement.
- Easy-to-use software, multiple curve type and dynamic curve display.
- Data acquisition frequency up to 1000Hz (need to be customized)
- High speed data processing system.
- Data can be reanalyzed through the graphical processing module to realize the second edit.
- Excel report can be exported, or printed out directly.


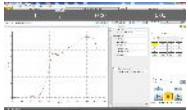




Technical Specifications

Model	JG-500
Capacity	500kg
Unit (Switchable)	Kg, lb, N, kN
Load Accuracy	± 0.5%
Load Resolution	1/500000
Test force measurement range	0.4% -100%FS
Deformation measurement range	0.2%-100%FS
Power control rate adjustment range	0.01-5%FS/S
Power control rate relative error	Within set point ±1%
Deformation rate adjustment range	0.02-5%FS/S
Deformation controlled rate relative error	Within set point ±1%
Constant, constant deformation, constant displacement control	0.5%--100%FS
Stroke (exclude the grips)	1000mm
Effective width	80mm
Test speed	0.001~1000mm/min
Speed Accuracy	± 0.3%
Stroke Resolution	0.001mm
Dimension (W x D x H)	550 x 400 x 1600mm
Weight (approx...)	160kg
Power supply	220V, 500KW

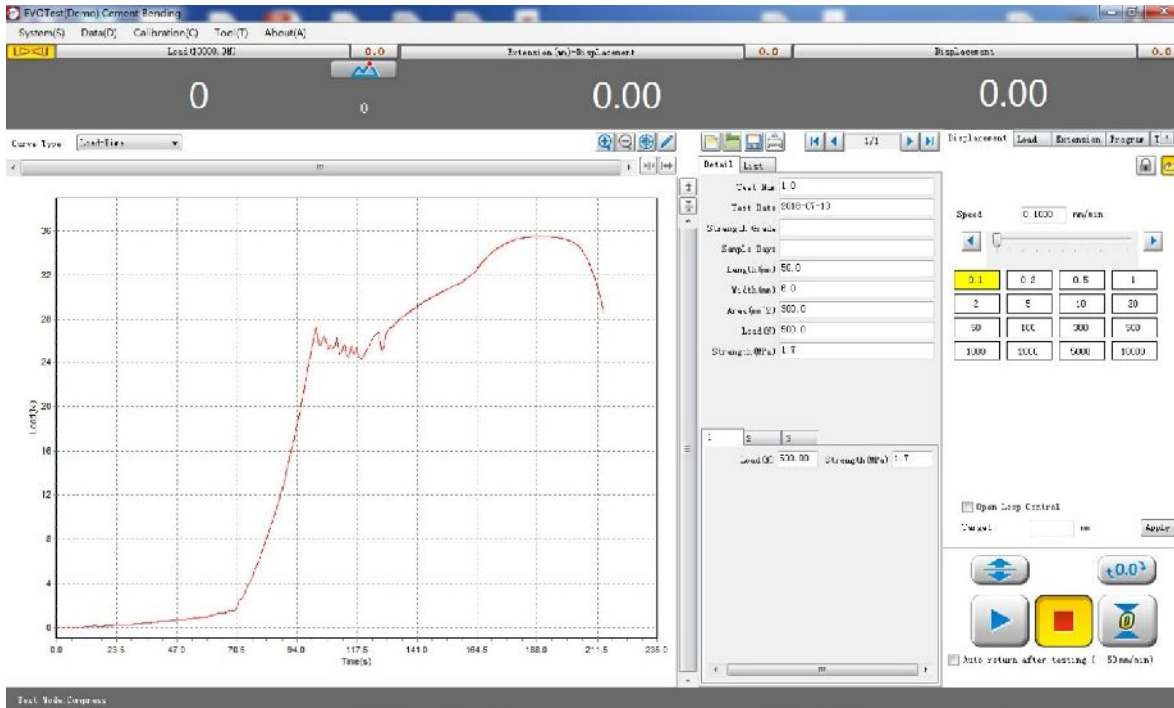


Standard Accessories

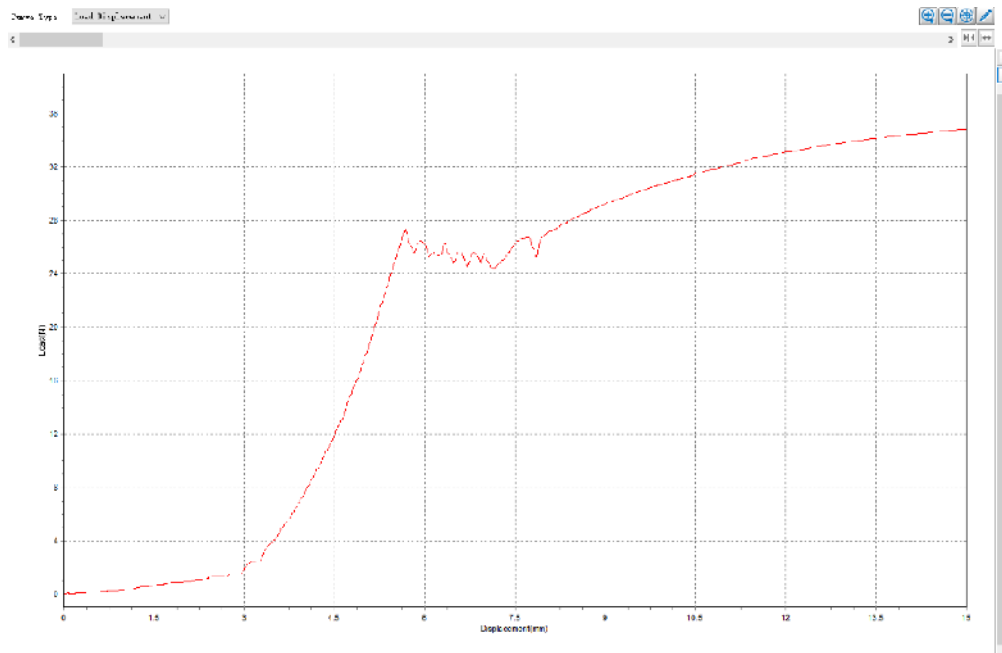
Name	Description	Quantity	Remark
UTM	Mainframe	1 pc	JNG
Servo Drive	Panasonic	1 unit	N/A
Servo Motor	Panasonic	1 unit	N/A
Ball Screw	Taiwan TBI	1 unit	N/A
Precision Planetary Reducer	Taiwan Liming	1 unit	N/A
Synchronous Belt	Goodyear	1 unit	N/A
Displacement Encoder	Panasonic	1 unit	N/A
Load Cell	Transcell or IMG LOGICS (USA)	1 unit	
Data Acquisition System	JGTester-8	1 unit	N/A
Test Software	EVOTest	1 unit	
Wedge Fixture	Flat Jaw: 0-8	1 unit	
Computer	Hard disk: 500G Monitor: 19" Keyboard & mouse Printer	1 unit	



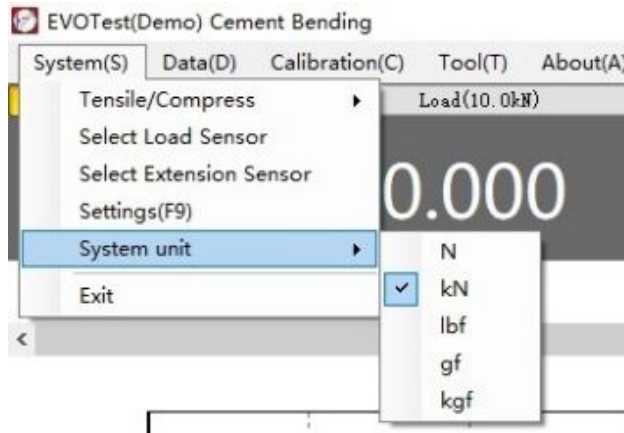
Software Interface



Curve Display Board



Unit Switchable



Testing Method Selecting Calibration Function

