

Electronic Universal Testing Machine

Brand: JNG

Model: JG-5000

Capacity: 5,000kg



(For reference only)

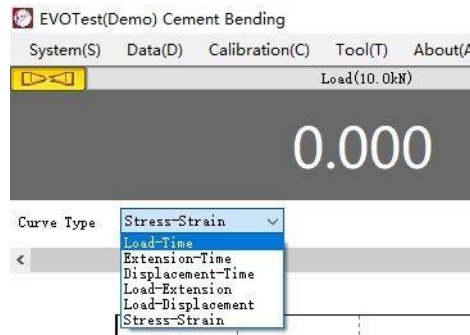
Equipment Usage

- 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-5000 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 standards;
- 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.

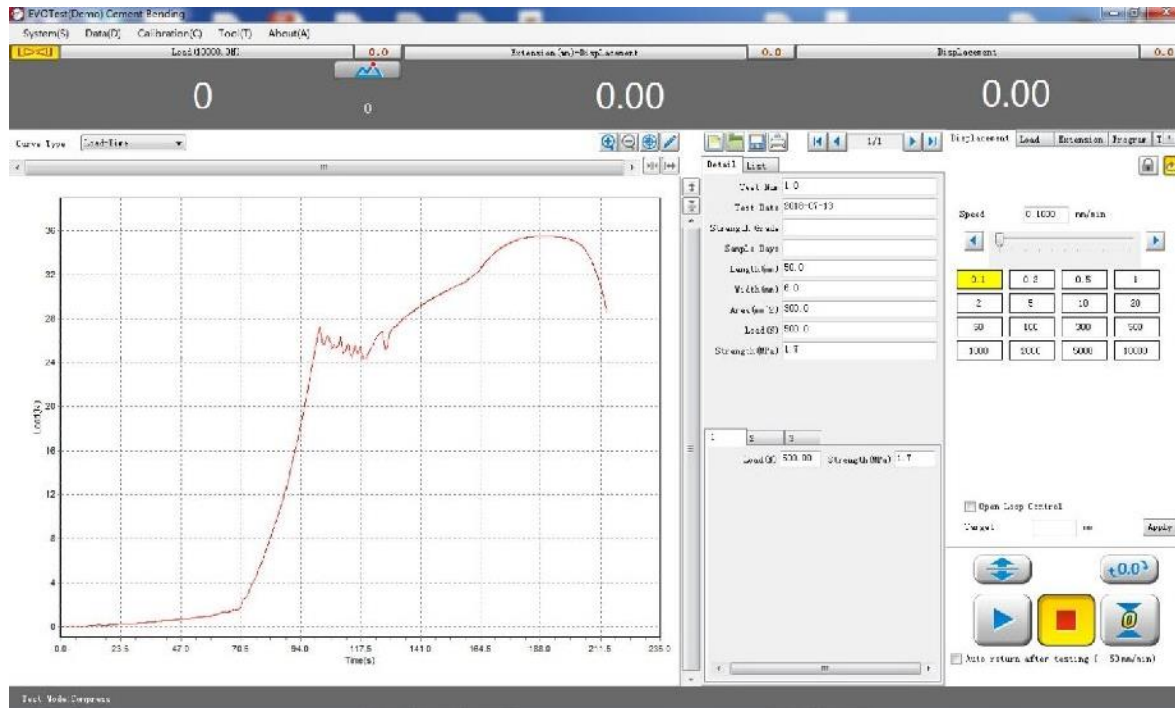
Technical Specifications

Model		JG-5000
Testing Parameters	Capacity	5000kg
	Unit (Switchable)	Kg, lb, N, kN
	Accuracy Grade	0.5
	Load Resolution	1/500000
	Load Accuracy	$\leq \pm 0.5\%$
	Displacement Resolution	0.01mm
	Displacement Unit Switchover	mm, cm, in, m
	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
Controlling Parameters	Test speed (Beam moving speed)	0.001 ~ 500mm/min
	Constant, constant deformation, constant displacement control	0.5% - 100%FS
	Speed Accuracy	$\leq \pm 0.3\%$
	Effective Width	445mm
	Stroke (exclude the grips)	1000mm
Others	Power supply	Single phase 220V $\pm 10\%$, 900W
	Dimension (W x D x H)	880 x 550 x 1960mm
	Weight (approx...)	520kg

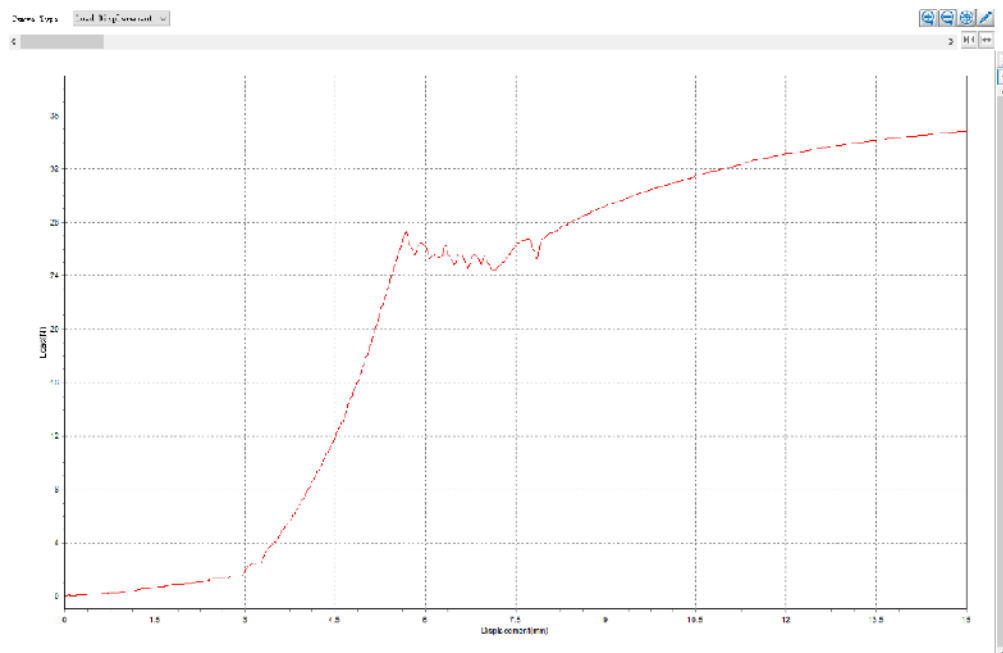
Standard Accessories

Name	Description	Quantity	Remark
UTM	Mainframe	1 pc	JNG
Servo Drive	Panasonic (Japan)	1 unit	N/A
Servo Motor	Panasonic (Japan)	1 unit	N/A
Ball Screw	TBI (Taiwan)	1 unit	N/A
Precision Planetary Reducer	Liming (Taiwan)	1 unit	
Synchronous Belt	Fulong (China)	1 unit	N/A
Displacement Encoder	Panasonic (Japan)	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	Width: 30mm Pitch: 0-7mm, 7-14mm	1 unit	
Computer	Hard disk: 500G Monitor: 19" Keyboard & mouse Printer	1 unit	

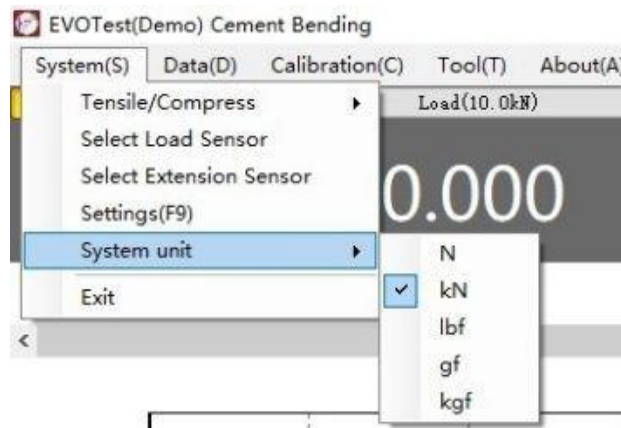
Software Interface



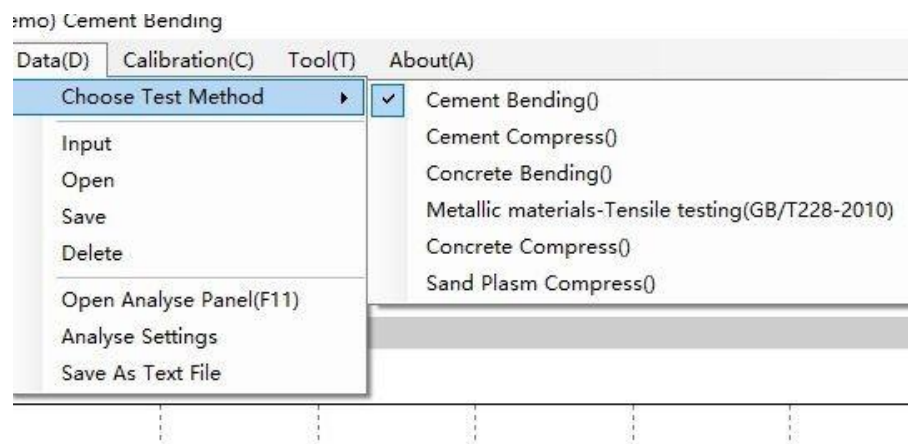
Curve Display Board



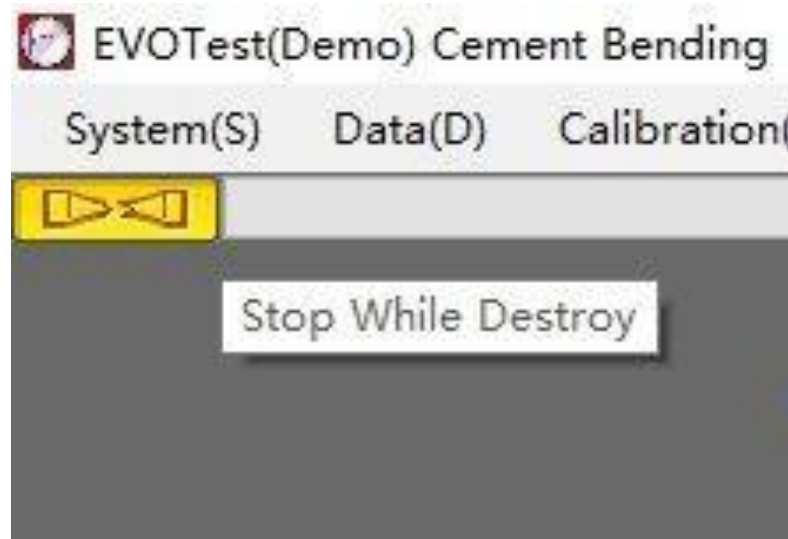
Unit Switchable



Testing Method Selecting Calibration Function



Stop Load When Sample Breaking



Report (Can be customize)

