**Electronic Universal Testing Machine** 

**Brand: JNG** 

Model: JG-10K

# Capacity: 100kN (10Ton)



(For reference only)

### **Equipment Usage**

This Electronic Universal Testing Machine for metallic materials: it is mainly used for conventional performance tests of tensile, compression and bending of metallic and non-metallic materials, and for measuring performance parameters of RP, Rt, ReH, ReL, Rm, E, etc.

The frame structure is double column and double screw gate structure. The speed regulating system is installed on the lower part of the working table. The lower space is tested for stretching, compression, bending and shearing.

# **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	🕑 EVOTest(Demo) Cement Bending					
	System(S)	Data(D)	Calibration(C)	Tool(T)	About(/	
Load – Displacement	Load(10.0kN)			N)		
Load – Extension			0	0.00	0	
Extension – Time	Curve Type	Stress-St	rain Y			
Displacement – Time	<	Load-Time Extension Displacem	-Time ent-Time			
Stress VS Strain		Load-Exte Load-Disp Stress-St	lacement			

# **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.

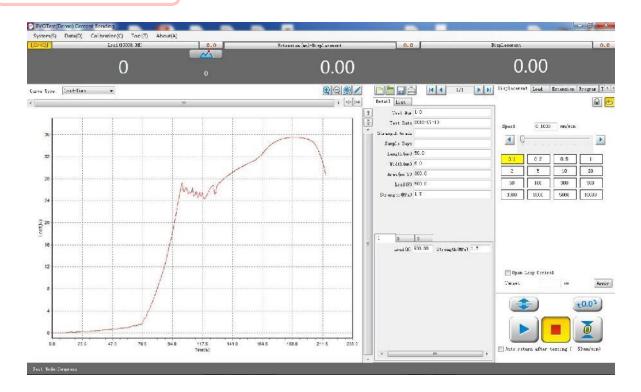
Data can be reanalyzed through the graphical processing module to realize the second edit.

Excel report can be exported, or printed out directly.

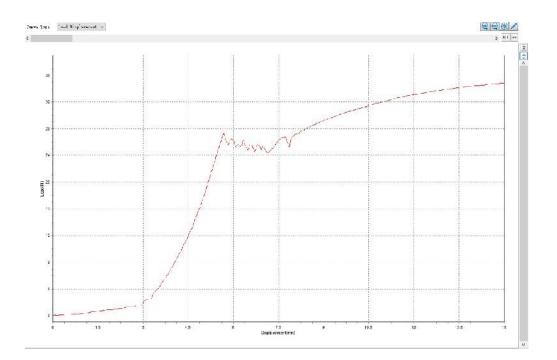
# **Technical Specifications**

	Model	JG-10K		
	Capacity	100kN (10Ton)		
	Unit (Switchable)	Kg, lb, N, kN		
	Load Accuracy	±0.5%		
	Load Resolution	1/500000		
Testing	Test force measurement range	0.4% -100%FS		
Parameters	Deformation measurement range	0.2%-100%FS		
	Power control rate adjustment range	0.01-5%FS/S		
	Power control rate relative error	within±1% of setting value		
	Deformation rate adjustment range	0.02—5%FS/S		
	Deformation controlled rate relative error	within±1% of setting value		
	Test speed (Beam moving speed)	0.001 ~ 500mm/min		
	Constant, constant deformation, constant displacement control	0.5% - 100%FS		
Controlling	Speed Accuracy	≤±0.3%		
Parameters	Effective Width	450mm		
	Stroke (exclude the grips)	1000mm		
	Stroke Resolution	0.01mm		
	Power supply	Single phase 220V $\pm$ 10%, 1.6KW		
Others	Dimension (W x D x H)	1000 x 550 x 2010mm		
	Weight (approx)	850kg		

# **Software Interface**

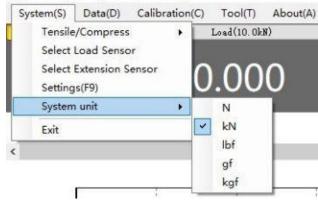


**Curve Display Board** 



# **Unit Switchable**

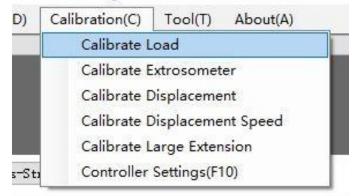
#### EVOTest(Demo) Cement Bending

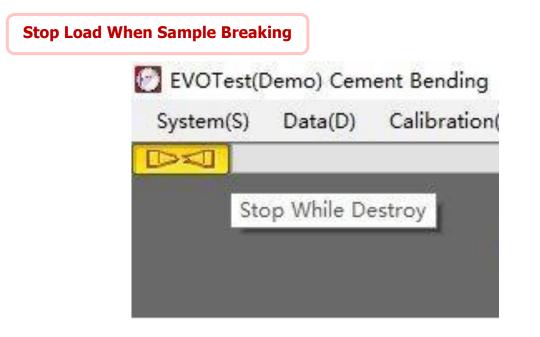


## **Testing Method Selecting Calibration Function**

Data(D)	Calibration(C) Tool(T)	A	pout(A)
Choo Inpu Ope Save Dele	en e		Cement Bending() Cement Compress() Concrete Bending() Metallic materials-Tensile testing(GB/T228-2010) Concrete Compress()
Anal	en Analyse Panel(F11) lyse Settings e As Text File		Sand Plasm Compress()

#### Cement Bending





# Report (Can be customize)

Test lot munbe client's name:	87.	Testers. standard test Test date:		23-12-2016	15:50:35		
Test Results:							
Test number	Maximum load (N)	tensile strength (MPa)	Elastic Modulus (Ea)(MPa)	Yield Strength (MPa)	Elongation at break (%)	Gauge length (mm)	area (mm^2)
Samples1	1830.510	46.936	1944.027	46.936	326.055	50.000	39.000
Gaugele 2	1806.360	46.317	2626.544	46.317	331.768	50.000	39.000
Max	1830.510	46.936	2626.544	46.936	331.768	50.000	39.000
Min	1806.360	46.317	1944.027	46.317	326.055	50.000	39.000
average value X-bar	1818.435	46.626	2285.286	46.626	328.912	50.000	39.000
5800 C							- 公司封信任-1 - 公司封信任-2
1400 1400 3200 401 unon 600 400 200						-de	