

# Electronic Universal Testing Machine

**Brand: JNG**

**Model: JG-10K**

**Capacity: 100kN (10Ton)**



**(For reference only)**

## Equipment Usage

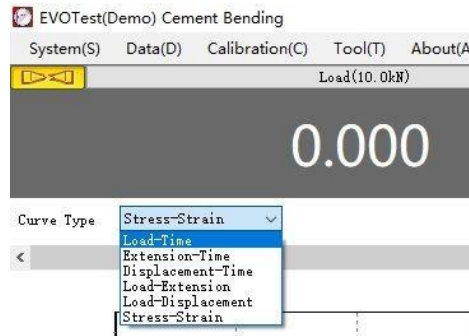
This Electronic Universal Testing Machine for metallic materials: it is mainly used for conventional performance tests of tensile, compression and bending of metallic and non-metallic materials, and for measuring performance parameters of  $RP$ ,  $Rt$ ,  $ReH$ ,  $ReL$ ,  $Rm$ ,  $E$ , etc.

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         |
| 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.

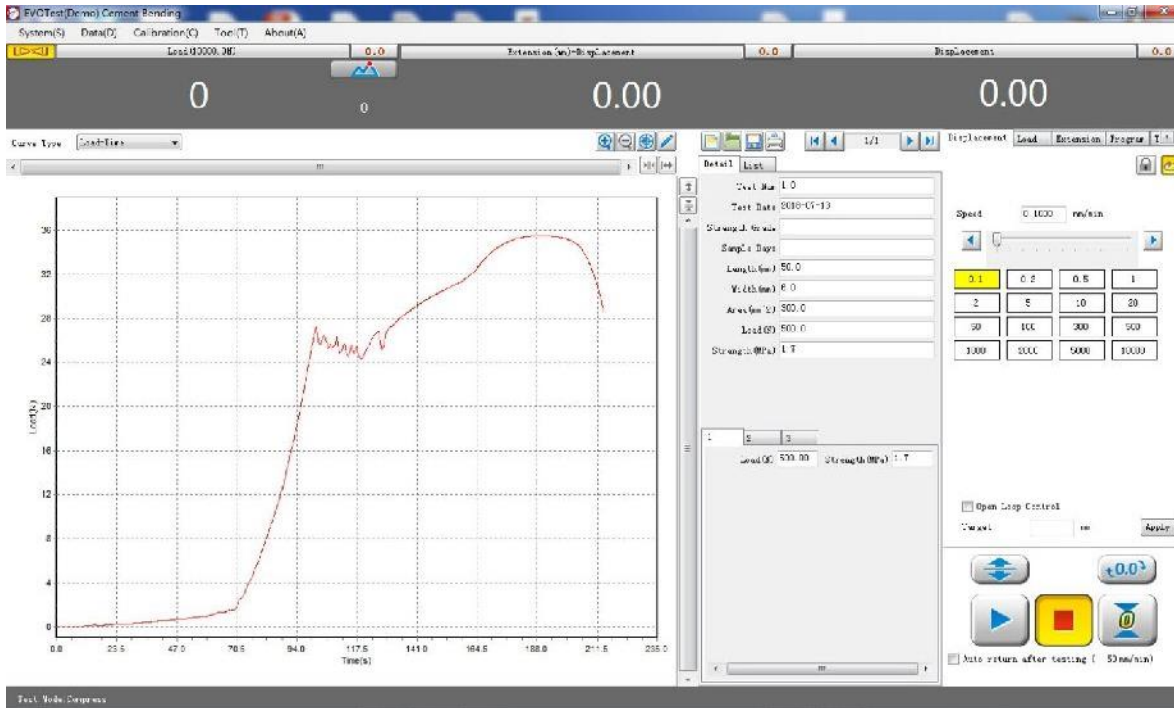
## Features

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.

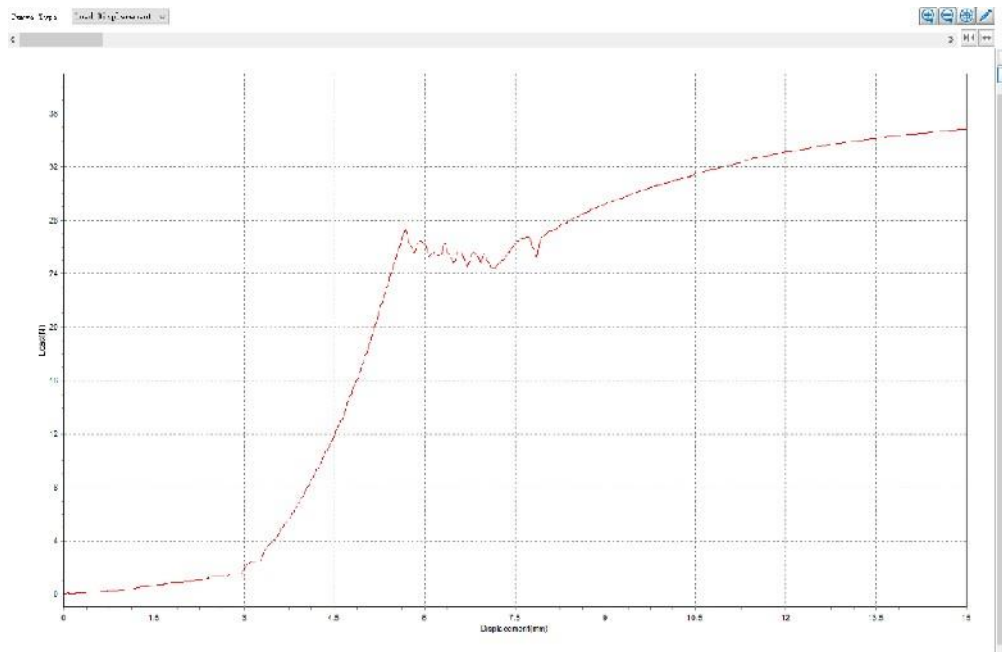
## Technical Specifications

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

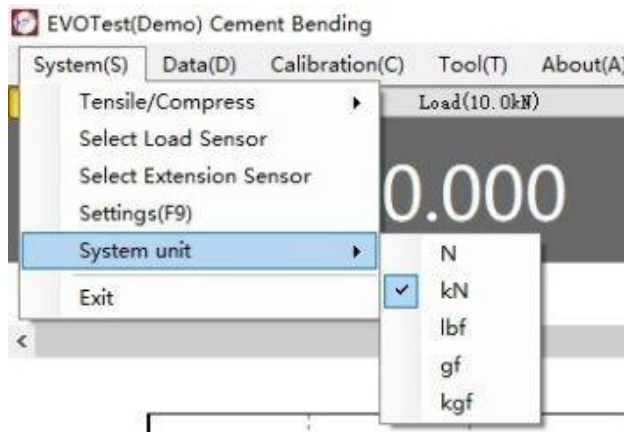
## Software Interface



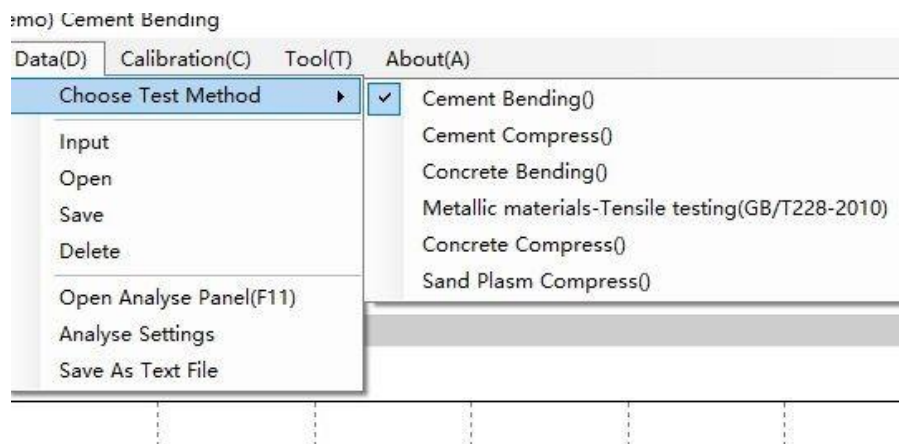
## Curve Display Board



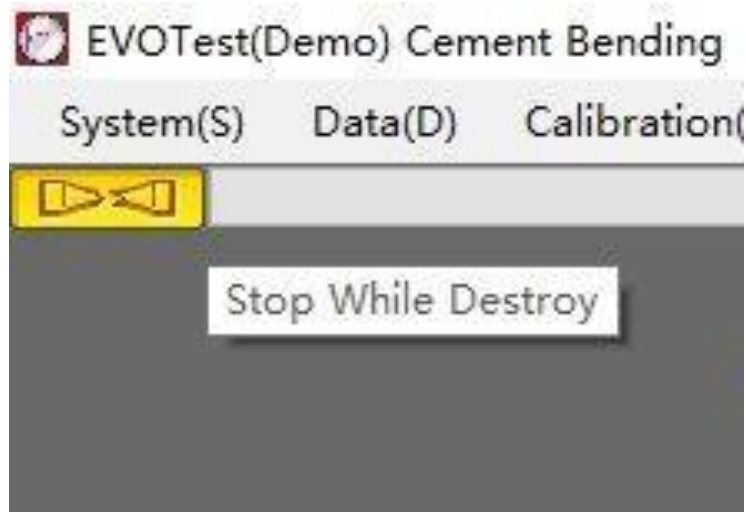
## Unit Switchable



## Testing Method Selecting Calibration Function



## Stop Load When Sample Breaking



## Report (Can be customize)

