



BANBROS ENGINEERING PVT. LTD.

The Precision Measurement People

DYNAMIC & CYCLIC COMPUTERIZED FATIGUE TESTING MACHINE



BUTDS - 10



Fatigue testing equipment is often used to determine how a material will perform over time and repeated use.

BANBROS offer the **BUTDS** series Electronic Dynamic Universal Testing Machine/ Cyclic Testing Equipment widely used at material and components, parts dynamic mechanical property test, include tension, compression, low cycling test, match with high-low temperature chamber can execute the temperature test.

These are used to determine the impact ductility of non-metallic materials, such as Rigid thermoplastic and thermosetting plastic, thermosetting plastic and thermoplastic after fibre-reinforced. It is widely used in the industries of plastic products, plastic manufacture, Petro chemical etc, University, scientific research institute and commodity inspection department.

KEY FEATURE: -

- One control channel, with load, displacement, deformation three close-loop control, these three- control type smoothly switch.
- Max. close-loop data flash frequency is 6Khz;
- Controller A/D, D/A resolution is 16-bit, signal generate frequency is 0.001Hz~ 50HZ.
- Signal generate waveform include sine wave, triangular wave, quare wave, sawtooth wave etc.
- Two levels servo valve driving unit used to drive the servo valve, remote hydraulic pump used to remote control the hydraulic pump station.

STANDARD: -

Comply with different standards such as ASTM F2606, ASTM F2516, ASTM F2267, ASTM F384, EN 397 et

TECHNICAL SPECIFICATIONS: -

| MODEL | BUTDS-10 |
|----------------------|---|
| Max. static load | ±10KN Accuracy ±1% |
| Max. dynamic load | ±1kN |
| Dynamic fluctuation | Less than ±1%FS |
| Actuator max. stroke | ±100mm |
| Frequency | 0.01~15Hz |
| Control mode | Load, displacement, deformation |
| Main test waveform | sine wave, triangular wave, quare wave, sawtooth wave etc., |
| Max. test space | 550mm (include test fixture) |
| Test width | 430mm |
| Dimensions | 785*620*1650mm |
| Standard Power | 220/110V, 50/60HZ, 1 phase |
| Working system | MS Win7 / Win10 |

**Due to continues product development, specifications and image are subject to change*

**STANDARD ACCESSORIES**

| | |
|--|--------------|
| o High Stiffness Frame | 1 set |
| o Servo liner actuator | 1 set |
| o Servo driver | 1 set |
| o Loadcell: | 1 set |
| o LVDT (liner displacement sensor) | 1 set |
| o Test fixture (quote and design according details test sample). | 1 set |
| o Fully digital servo controller | 1 set |
| o Professional testing software | 1 set |
| o Computer | 1 set |
| o Printer | 1 set |
| o Documents (Manual, packing list, certificate) | |