

Model EDS-50 Digital Type Economical Electromechanical Universal Testing Machine

Applications:

This testing machine is designed for tensile mechanical property test on metal or nonmetals. A variety of fixtures can be offered to do compression, bending and shearing test as well. It is suited for the applications in quality inspection, research, metallurgy, rubber & plastics, and knitting materials. It is widely used in many fields such as industry factories, mineral enterprise and high schools. The machine complies with ASTM, ISO, DIN standards, etc.

Features:

- The test procedure is controlled by the intelligent digital controller, and the machine can return original position automatically or manually.
- Adopt large LCD display. The specimen and test parameters can be input.
- The output of test results can be set freely: max. test load, rate of elongation, max. Tensile strength etc.
- With network cable, test results together with recorded curves can be output the computer so that data processing and analysis can be done easily.
- Adopting high performance AC servo system, it can complete tensile, compression, shearing, tear, 180° & 90° peel test (nonmetal); tension, compression, bending, shearing tests (metal)
- Large working area can be configured with climatic chamber to do test under specified temperature

Main Specifications:

- Max. Test load: 50 kN
- Type: Table type
- Load measuring range: 0.2kN~50kN (with additional 10kN load cell)
- Load measuring accuracy: $\pm 1\%$ of indicated value
- Speed range: 0.1-500 mm/min
- Speed accuracy: $\pm 1\%$
- Displacement measuring: 0.01mm
- Load resolution: 1/100000
- Tensile space: 600 mm
- Total crosshead travel: 1100mm
- Dimensions: 760×420×1650mm
- Power: 1.0 kW, 220V/50Hz
- Weight: 250 kG

Standard Accessories:

1. Tensile test attachment



Grips for round specimen: $\Phi 4$ - $\Phi 9$ mm, $\Phi 9$ - $\Phi 14$ mm
Grips for flat specimen: 0-7mm, 7-14mm

1 set each
1 set each



2. Compression test attachment:

1 set

Platen dia.100mm



3. Photoelectric encoder:

1 pc



4. Load cell:

1pc

Load cell 50kN, Tensile & Compression type.



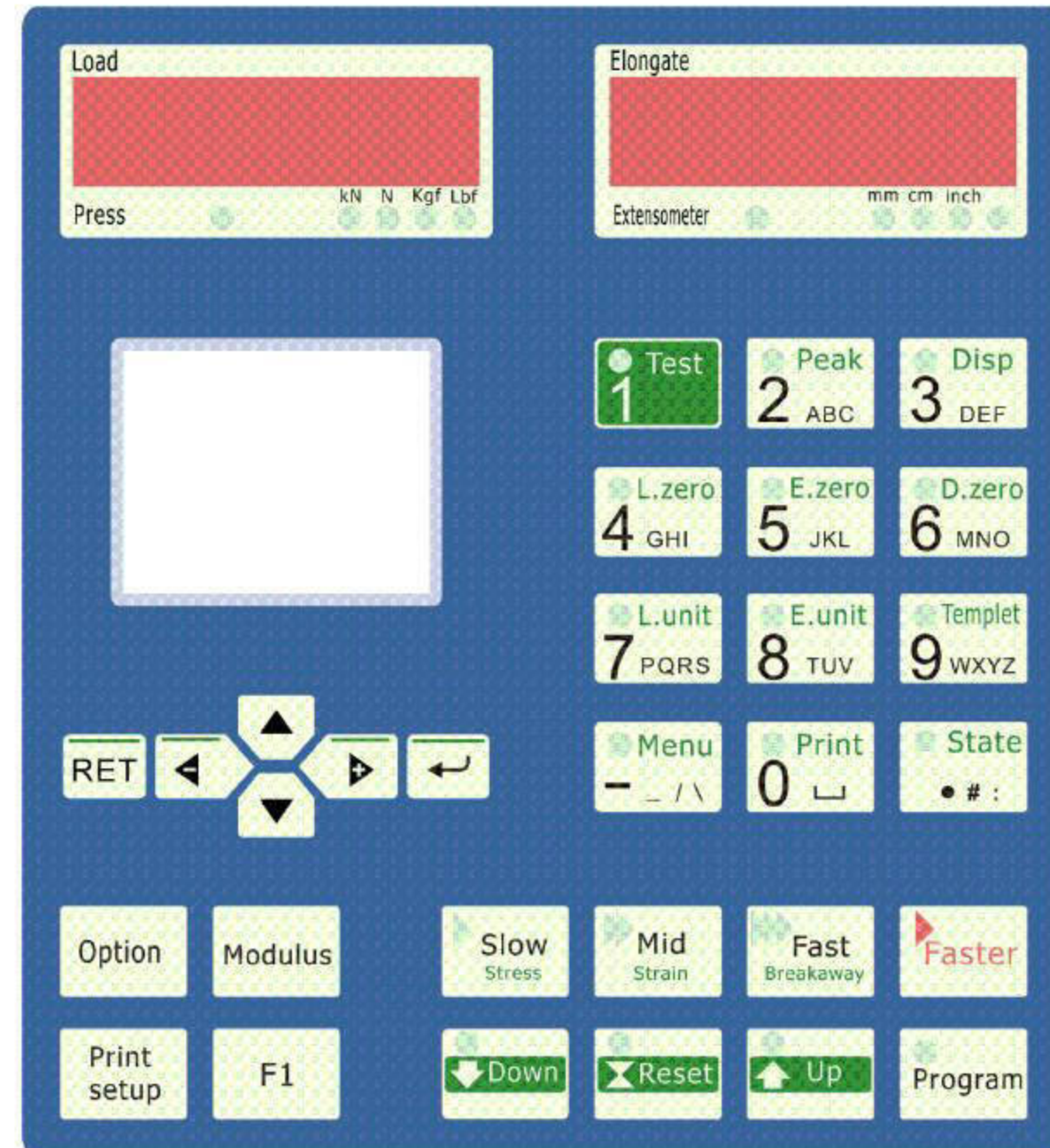
5. AC Servo Motor

1 set



7. Digital controller

1 set



Application:

This digital controller is an exact test instrumentation that developed for the simple tensile and compression testing of metallic materials. It, as a result of applying of the advanced technology, refined design and elaborate units, is of quite precision of test, accurate identification's capability and convenience of operation. It is a new example of the modern testing dominates.

Features:

1. Automatically calculate based on interrelated GB and memorize data.
2. Could be operated by one single key press, which is similar to the PDA.
3. Complex keyboard is used as shortcut and letters' input, which is similar to the PDA and mobile telephone.
4. Handiness and cabinet, supports batteries power supply, metallic surface makes it be used in different places becomes possible.
5. LCD screen operating system, the data of the testing would be displayed on two LED.
6. Intelligently estimation of samples broken, automatically start the next testing, unneeded human's operating.
7. Powerful data processing capability, the data could be amended, deleted, transferred easily.
8. The testing could be reworked, so that testing errors could be greatly reduced.
9. Strict preview administration to ensure the testing data's safe.
10. Have real time display function.
11. Upgraded operating programs can be downloaded from internet; new programs would be compatible with the old.
12. Inbuilt VAC, closed loop control mode.