

50KN MULTI-FUNCTION LOADING FRAME

This instrument is purpose-built to measure the ultimate strength of specimens under axial compression in the absence of lateral pressure, a fundamental requirement in material testing and quality control. The system delivers outstanding compatibility and adaptability, offering users the flexibility to customize test modules according to specific project or international standard requirements. It also supports seamless integration with other existing equipment, making it a versatile solution for a wide variety of laboratory configurations. Beyond its software capabilities, the hardware architecture is inherently flexible—users can augment it with additional hardware to meet evolving testing needs. Test quality and scope are therefore determined by hardware choices, not constrained by the software.

FEATURES

- ⊙ Built-in pressure sensor.
- ⊙ The pressure plate is made of stainless steel.
- ⊙ All external parts are anti-rust and anti-corrosion.
- ⊙ It is composed of rigid chromium-plated steel double column structure, which maintains rigidity under high load.
- ⊙ Built-in PLC control with English LCD graphic display.
- ⊙ Multifunctional keyboard input
- ⊙ Convenient and fast operation.
- ⊙ Software supports recording basic sample information.
- ⊙ Real-time data collection and curve plotting during testing.
- ⊙ Supports curve zooming, copying, image saving, and printing.
- ⊙ Data saved in binary format for long-term continuous storage.
- ⊙ Built-in data conversion function for exporting to Excel-readable format.
- ⊙ Compatible with 64-bit Windows 7/10/11 operating systems.



TECHNICAL SPECIFICATIONS

Maximum axial force (load cell)	50 kN, accuracy $\pm 0.1\%$ F.S.
Speed	0.0001-9mm/min
Displacement range	0-80mm
Power supply	110/220V, 50Hz
Dimensions	600×450×1300(mm)
Weight	105kg

SINCE 2006

ZHUOZHOU TIANPENG INSTRUMENT MANUFACTURING CO., LTD.
Website: www.testmould.com Tel: +86-312-3852880