

## Double-column Vertical Test Stand: Versatile Mechanical Testing Platform



The Double-column Vertical Test Stand is a robust and versatile testing system designed for a wide range of mechanical tests. Featuring a stable double-column structure and advanced control capabilities, this test stand provides reliable performance for push-pull force measurement, insertion force testing, and destructive experiments across multiple industries.

### Features:

- **Enhanced Structural Stability:** Double-column design ensures exceptional rigidity and alignment, providing consistent and accurate test results.
- **Flexible Speed Control:** Stepless speed regulation allows precise adjustment of testing speed, enabling optimal testing conditions for different materials.
- **Dual Control Modes:** Manual and automatic control switch functionality, offering operational flexibility for both simple and complex testing procedures.
- **Compact & Efficient Drive:** Gear drive system with compact structure, delivering stable power transmission and reliable long-term performance.
- **Universal Compatibility:** Simple operation with ability to use various clip types, making it adaptable to numerous testing applications and sample geometries

### Specification:

Model	EI-TS500	EI-TS1000	EI-TS2000	EI-TS3000
Capacity	5000N / 500kg	1000N / 1000kg	20000N / 2000kg	30000N / 3000kg
Travel Stroke	220 to 1000mm			
Test Speed	60 ~ 220mm/min, adjustable	50 ~ 180mm/min, adjustable		
Control Mode	Manual or Auto Cycle			

Rate Voltage	240, 50Hz
Dimension	400 (L) x 250 (W) x1050 (H)mm
Weight	Approx. 56kg to 120kg

## Digital Force Gauge



### Function:

The force gauge has advantages of high precision, easy operation and carry. What's more, it has kinds of testing modes, convenience for conner and it can store and input data to computer for statistical analysis as well as constitutes testers with different functions, combination with test-beds and clamp. Users can input local acceleration of gravity value to make test more precise.

### Feature:

1. High precision and high resolution.
2. Five testing modes and three display methods for selection --- enhance testing efficiency to the maximum extent.
3. Three measuring units for selection and conversion: N (Newton), kg (Kilogram) and lb (Pound).
4. Setting function of gravity acceleration --- User can input at your option the accurate value of gravity acceleration at the using place so as to make the testing and unit conversion be more accurate.
5. Function of peak value maintaining. Maintain the display of peak value until manual zero clearing.
6. Automatic peak function. Maintain the display of peak value for 2 seconds and then release automatically.
7. Max and min and comparison value can be set for statistic analysis. The buzzer will alarm if exceeding comparison value.
8. Data storage function: 896 testing values can be stored.
9. Data output function: The data can be input into computer through data line for various analyses.
10. Environmental protection: The device will automatically stop if no operation within 10 minutes.
11. High quality chargeable power supply. The charging voltage is 220V ~ 240V, which can accommodate most areas in domestic and at abroad. It also has protection functions for short circuit, leakage and overload.

12. 2 sets mounting dimensions, it is applied for most testing platforms domestically and easy for users to install it to platform.
13. Special testing function of make-break ability of switch contact to make the make break testing is more accurate.
14. 6 digits large screen display.

**Specification:**

Model	HF-30K	
Peak Load Value	30000N / 3000kg	
Load division value	1N / 0.1kg /0.1Lb	
Units	N / (kN), kg / (MG or t), Lb	
Sensor Structure	Inner / External Sensor	
Indication Error	±1%	
Data Interface	RS232 nine-hole socket	
Power Supply	7.2V / 1.2Vx 6 NiMH Batteries	
Charging Time	4 ~ 6 hours	
The Battery of continuous use of time	About 15 hours	
Battery Life	≥300 times	
Charger	Input: AC 220V 50Hz	Output: DC 10V 300mA
Work Temperature	5°C ~ 35°C	
Transport Temperature	-10°C ~ 60°C	
Relative Humidity	15% ~ 80%RH	
Work Conditions	No hypocenter and corrosion medium	
Gross Weight	Approx. 6kg	
Size	280 x 200 x 170mm	

**Accessories:**

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|--|-----------------|-------------------|
| - Pull Clamps Push Clamp                 | - Prolong Stick | - Mounting Screws |
| - User Manual                            | - Carrying Case | - Battery Charger |
| - PC Software and Serial Interface Cable |                 |                   |