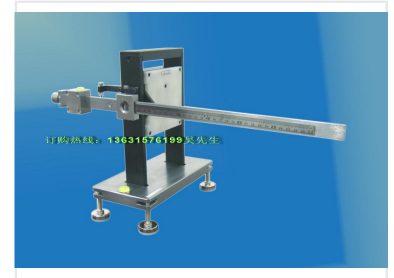


Plug and Socket Torque Tester

This machine tests the torque of plugs and sockets. It measures resistance and stability under stress, ensuring compliance with IEC, VDE, and BS standards.



Overview

Precision Torque Testing for Electrical Safety

This Plug and Socket Torque Tester is engineered to evaluate the mechanical strength and stability of electrical connections, ensuring they meet rigorous international safety standards. Designed for quality control and product development, the device measures the torque imposed by plugs on socket-outlets to prevent undue strain during intended use. Its robust construction and adjustable balancing arm allow for precise testing across various plug types, providing reliable data for compliance verification.

Standards Compliance

Supported Standards

IEC60884, VDE0620, IEC60598, IEC60065 Fig11, BS1363.3

Technical Specifications

Included Load Weights

- 0.5N x 2
- 1.25N x 1
- 0.25N x 1

Included Plug Types

- UL plug
- LCX plug
- All-purpose plug

Maximum Torque

0.25 Nm

Operational Details

Operational Principle

The test apparatus features a balancing arm that pivots about a horizontal axis through the center lines of the socket-outlet contact tubes, positioned 8mm behind the engagement face. When the device is disengaged, the balancing arm remains in equilibrium with the socket face vertical. Upon engagement, the torque required to maintain the vertical plane is determined by the precise positioning of weights on the balancing arm.