



TORONTECH

REBAR BEND & RE- BEND TESTING MACHINE - TORONBEND50



Rebar Bend & Re-bend Testing Machine - ToronBend50 is a specialized tool designed for conducting cold bend and plane rebend tests. Its technical specifications comply with GB 1499.2-2007 (*Steel for the Reinforcement of Concrete: Hot-Rolled Ribbed Steel Bars*), YB/T 5126-2003 (*Steel Bars Plane Re-Bend Testing Standards*), and meet the requirements of ISO 10065:1990 for cold bend and plane rebend testing.

This machine is an excellent solution for testing the bend and rebend performance of steel bars, making it a valuable resource for the steel industry and construction sectors.

APPLICATIONS

The Torontech ToronBend50 is a specialized system for conducting the essential bend and re-bend tests on steel reinforcing bars, in full compliance with key standards like GB 1499.2-2007 and ISO 10065. This test provides a definitive evaluation of a rebar's ductility and its ability to withstand the severe strain of on-site bending and potential straightening without fracturing, a critical factor in ensuring structural integrity and safety.

This fundamental mechanical test is a cornerstone of quality assurance for:

- **Steel Manufacturing:** As a primary quality control test for steel mills to certify that each production batch of rebar possesses the necessary ductility and structural integrity to meet international construction codes and specifications.
- **Civil Engineering & Construction:** For third-party and on-site verification, ensuring that the reinforcing steel used in critical infrastructure such as bridges, high-rise buildings, and dams will maintain its integrity after being bent into complex shapes, which is paramount to public safety.
- **Governmental & Regulatory Agencies:** Utilized by national standards bureaus and transportation departments to conduct compliance testing, ensuring that all rebar used in public works projects meets stringent safety and material quality regulations.
- **Precast Concrete Industry:** For manufacturers of precast concrete elements (e.g., beams, panels), this test is vital for validating the quality of the reinforcing steel, guaranteeing it can withstand the fabrication process and perform as

designed within the final product.

FEATURES

- Compact and durable design.
- Easy-to-use interface with a digital bend angle display.
- Convenient maintenance and lubrication.
- Stable and safe operation with minimal noise.

The ToronBend50 ensures reliable and precise testing, offering essential support for quality assurance in steel manufacturing and construction applications.

TECHNICAL SPECIFICATIONS

Items	Technical specification
Max. diameter of steel bars	φ50mm
Angle of bend	0°-180° with the arbitrary set
Angle of rebend	0°-180° with the arbitrary set
Rotational speed of worktable	≤1.4r/min
Distance of roller center	366mm
Diameter of worktable	φ 860mm
Voltage	3 phase 380v 50Hz 3kw

Items	Technical specification
Outline size of the Main Unit	1320×1180×1250mm
Weight	2000kg

Accessories

Main Unit: 1 set

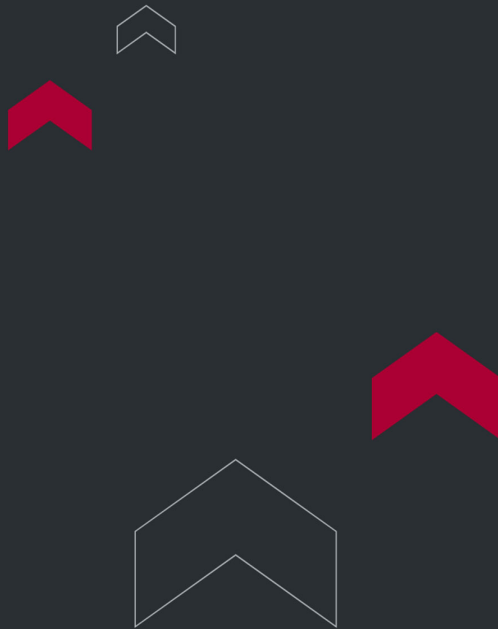
Working shaft Φ56: 2 pcs

Working shaft Φ48: 5 pcs

Steel bar bending mandrel attachments:

5×Φ32, 5×Φ36, 5×Φ40, 6×Φ40, 6×Φ50 total 5 sets

Remark: Other specifications of bend mandrel set (or bend mandrel shafts) can be ordered separately by users based on their own needs.



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