



TRI-CYLINDER BEND TESTING MACHINE

Our TT-TCBT-300 TRI-Cylinder Bend Testing Machine with 3 Positions is specially used for bending of test of metal “ stick materials, plank materials, building screw thread steel.

The machine adopts the hydraulic – loading, to adjust the distance of cold and bending press roll with hand wheel to drive screw rod of both directions in this way to make the cold and bending press roll advance and retreat. Cold and bending press roller of insert type makes the grips more healthy.

Standrads: ASTM E290, ASTM E190,ISO 7438 , JIS Z2248, AWS B4.0, API 5L & GB T232

APPLICATIONS

- **Metallurgical and Material Testing** – Evaluates ductility, toughness, and bending performance of metallic materials.
- **Construction Steel Testing** – Confirms bend resistance of rebar, threaded steel, and other structural materials.
- **Pipeline and Oil & Gas Industry** – Ensures compliance of pipes and welded joints with API 5L and related standards.
- **Manufacturing and Fabrication** – Tests sheet metals, bars, and planks for quality assurance in production processes.
- **Aerospace and Automotive Applications** – Validates bending strength of critical components exposed to dynamic stress.
- **Research and Quality Control Laboratories** – Provides standardized testing according to ASTM, ISO, JIS, AWS, and GB/T specifications.

TECHNICAL SPECIFICATIONS

Driving method	Hydraulic
Vertical Load capacity	300kN

Horizontal Load capacity	150kN
Overload protection	125%Load capacity (Guarantee)
Bending support distance	10 ~ 250mm
Bending support width	120mm
Vertical cylinder stroke	200mm
Horizontal cylinder stroke	125mm
Overall dimensions	2030×780×1867mm
Bar diameters	φ5.5 ~ φ55 mm
Maximum bending angle	180°



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