



TORONTECH

DROP WEIGHT TEAR TESTER SPECIMEN NOTCH PRESSING MACHINE



Drop Weight Tear Tester Specimen Notch Pressing Machine TT-DWTT-NPM2000 is a drop weight specimen notch preparation device developed and produced in accordance with the requirements of ASTM E436 'Steel - Drop-Weight Tear Test Method'

APPLICATIONS

The Torontech TT-DWTT-NPM2000 is a specialized machine for the precise and repeatable preparation of notches in specimens for Drop Weight Tear Testing (DWTT) per standards like ASTM E436. The integrity of the notch is a critical prerequisite for the DWTT, which is a definitive test for assessing a material's resistance to brittle fracture propagation. This preparation is fundamental to ensuring the safety and reliability of high-stress steel structures.

This critical sample preparation is essential for material qualification in:

- **Pipeline Manufacturing:** For qualifying the steel used in oil and gas pipelines, where the primary safety concern is the material's ability to resist long-running ductile or brittle fractures.
- **Steel Mills & Plate Production:** As a crucial quality control step for producers of high-strength plate steel destined for use in pipelines, shipbuilding, bridges, and pressure vessels.
- **Pressure Vessel & Storage Tank Fabrication:** To verify that the steel used in constructing large storage tanks and pressure vessels has sufficient fracture toughness to prevent catastrophic failure.
- **Third-Party Metallurgical Testing:** As a foundational sample preparation tool for laboratories providing material certification, failure analysis, and fitness-for-service assessments to the energy and construction industries.

FEATURES

TT-DWTT-NPM2000 features a unique design that prevents blade breakage during sample preparation, significantly extending the pressure blade's service life. It is user-friendly, safe, and efficient.

- The machine's compact structure and simple operation allow for automatic sample preparation.
- It utilizes hydraulic loading, forming in one step, and operates stably during sample notch preparation.
- During the notch pressing process, the sample is first clamped and then pressed, reducing tool wear and extending the tool's service life.
- The blade is embedded with only the cutting head exposed, ensuring no gap between the blade body and the fixing block, which prevents blade vibration and bending.

TECHNICAL SPECIFICATIONS

The maximum pressure load	2000KN
Indication accuracy	± 1%
Test force range	5 ~ 2000kN
System working pressure	40Mpa
Piston stroke	30mm
Opening angle	45°±2°
Opening depth	5±0.5mm
Open bottom R	0.025-0.023 + 0.013 mm
Press knife hardness	not lower than HRC60
Compression space height	360mm
Loading method	Hydraulic loading
Dimensions	820*550*1300mm
Weight	750kg

Voltage	Three-phase 380V 50Hz 3KW
Main configuration	
Main Machine	1 set
Pressing Blade	2 pcs
Sealing ring	1 set
User manual /Packing list/ Certificate	One for each



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