



TORONTECH

PIPE NOTCH MILLING MACHINE FOR ISO 13479 - PIPE NOTCH CUTTER



Pipe Notch Milling Machine for ISO 13479 – The Pipe Notch Cutter is designed to create precision notches in plastic pipes for Slow Crack Growth Resistance testing.

It is commonly used in the research, manufacturing, and quality control of polyethylene (PE) gas pipes. This machine is a critical tool for conducting environmental stress cracking tests.

APPLICATIONS

Plastic Pipe Manufacturing Industry - Precision notching of polyethylene (PE) gas and water pipes to evaluate slow crack growth resistance and ensure long-term reliability.

Gas & Water Distribution Industry - Verification of pipe durability and crack resistance to guarantee safe and efficient operation of underground gas and water networks.

Polymer & Material Testing Laboratories - Preparation of standardized notched specimens for environmental stress crack resistance testing in compliance with ISO 13479.

Quality Assurance & Certification Bodies - Validation of pipe performance through slow crack growth testing for certification and compliance with international safety standards.

Research & Development Institutions - Advanced studies on the fracture mechanics, long-term performance, and material improvements of polyolefin pipes under environmental stress conditions.

Petrochemical & Chemical Industry - Evaluation of polyethylene raw materials and compounds used in pipe extrusion to ensure resistance against slow crack growth in harsh service environments.

FEATURES

Pipe Notch Milling Machine for ISO 13479 - Pipe Notch Cutter Features

- 1. The system automatically calculates notch depth with a precision of 0.3 mm.
- 2. If the wall thickness exceeds 50 mm, the control system automatically selects the appropriate milling knife.
- 3. The system tracks the total milling stroke and provides a reminder to replace the milling knife when the stroke reaches 100 meters.
- 4. Fully automated specimen rotation, leveling into four equal sections, clamping, and knife operation.
- 5. A high-precision 60° V-shaped carbide cutting tool ensures a smooth and clean pipe surface after milling.
- 6. Modular system design with the milling knife positioned above the test piece for easy observation.

TECHNICAL SPECIFICATIONS

Parameter	Specification
Diameter range	DN63mm to DN630mm
Maximum specimen length	1800mm
Maximum notch length	≤1100mm
Maximum specimen wall thickness	60mm
Notch angle	60°
Residual thickness	0.78 to 0.82 times pipe wall thickness
Feeding speed	150mm/min (adjustable)
Voltage	220V 50Hz (110V is also available)
Dimensions	2700mm (L) × 1000mm (W) × 1400mm (H)



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