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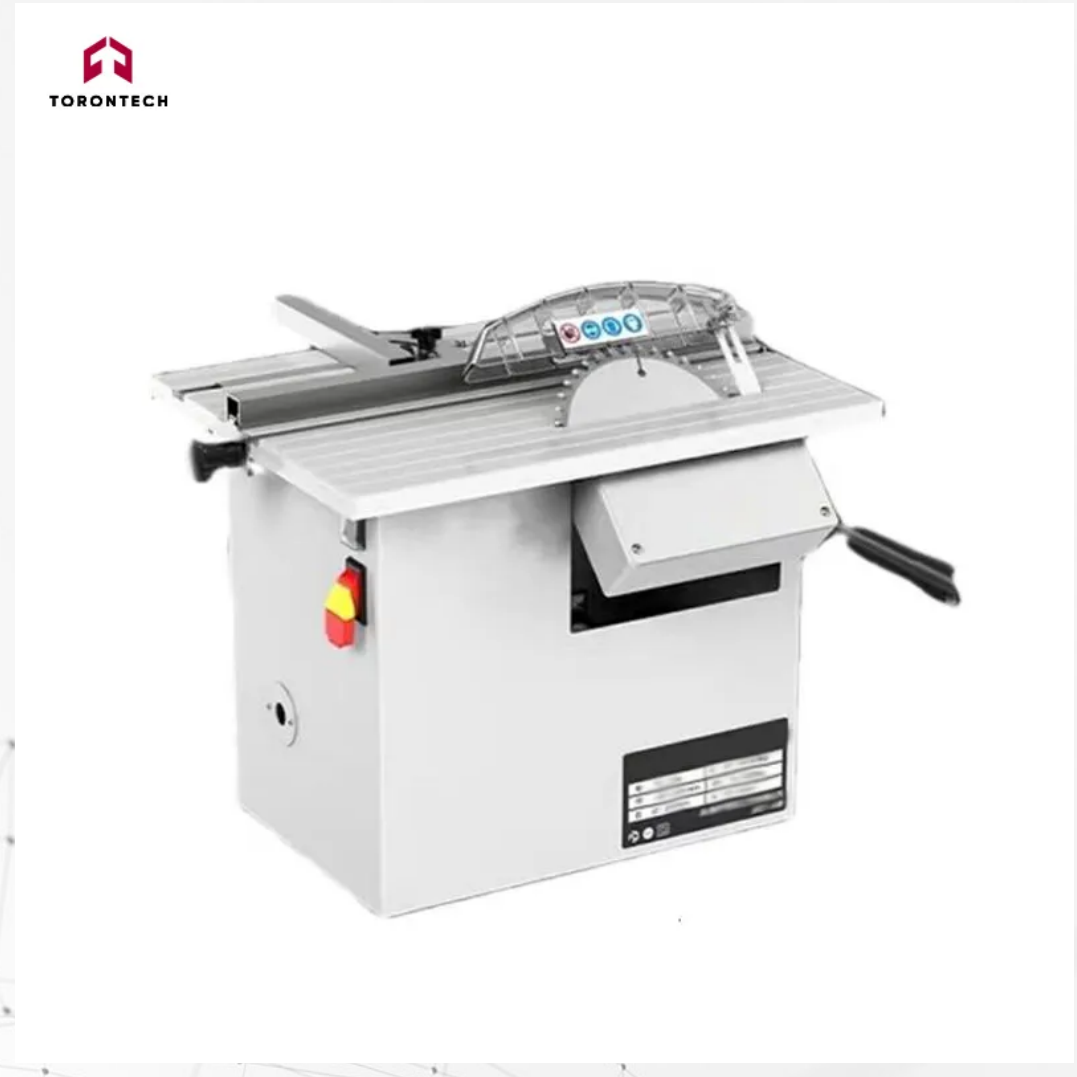

C-RING TOUGHNESS TESTER FOR PVC-M PIPES

C-Ring Toughness Tester for PVC-M Pipes | AS/NZS 4765:2007

C-Ring Toughness Tester is designed for evaluating the toughness of notched modified polyvinyl chloride (PVC-M) water supply pipes. It is an essential testing instrument for research institutes, quality control departments, and pipe manufacturers.

The device includes a test bracket, weights, and a support fixture. A controlled load is applied to the pipe specimen until it fractures within a few minutes. The fractured surface is then examined to identify signs of brittle failure.

APPLICATIONS

Notching Device for C-ring Test

This device is specifically designed to cut notched PVC-M pipes for determining C-ring toughness.

It is composed of three main sections: the cutting unit, the support unit, and the depth adjustment unit. The cutting tool gradually removes layers from the inner wall of the pipe specimen, while the adjustment unit ensures the notch size is precisely controlled to meet technical requirements.

Features

The specimen holder has an open, split-type design that is easy to install and operate. It can accommodate pipe specimens up to a maximum diameter of φ450.

Equipped with a specialized pipe-cutting tool that meets standard angle requirements. The 45° spiral head adjustment ensures precise incision depth.

Technical Parameters

- Cutting Angle: 45°
- Cutting Thickness: 32mm
- Motor Power: 4kW

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FEATURES

- The test bracket features an open design with ample space, making installation and operation easy. It can accommodate pipe specimens up to a maximum diameter of φ450.
- The device includes rigid support fixtures with different specifications but the same curvature, ensuring accurate transmission of the required bending torque to the notched section. This guarantees reliable test results.
- A buffer plate is positioned beneath the weight hangers to absorb impact if the specimen fractures in a brittle manner. This design enhances safety throughout the testing process.

TECHNICAL SPECIFICATIONS

Pipe Diameters	110mm to 450mm

Test Stations	5
Max. Load	8kg

Standard configuration

1. Test bracket
2. Stop meter
3. Weights (5 sets)
4. Support fixture (5 sets for each pipe diameter)
5. 20mm limit block

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