



TORONTECH

COPLANAR DOUBLE NOTCH CUTTER FOR PIPES AND PLASTICS - TORONNOTCH™ - COPLANAR



ASTM F 1473, ISO16770, ISO 9854

Coplanar Double Notch Cutter for Pipes and Plastics ToronNotch™-Coplanar is designed to create double notches in ultra-high molecular weight polyethylene test specimens. It is used in conjunction with a 50J pipe Charpy impact tester to determine the double-notched Charpy impact strength of ToronNotch-Coplanar molded materials.

This cutter is also suitable for preparing notches in FNCT and PENT specimens.

APPLICATIONS

- **Plastic Pipe Manufacturers & Extrusion Plants** - Used to prepare standardized double-notched specimens for Charpy impact testing, FNCT, and PENT evaluation to ensure product durability and compliance with ASTM F1473, ISO 16770, and ISO 9854.
- **Research & Testing Laboratories** - Essential for producing high-precision test specimens for material characterization, fracture mechanics studies, and validation of polyethylene performance.
- **Quality Assurance & Certification Agencies** - Provides reliable specimen preparation for third-party verification, certification audits, and compliance testing against international standards.
- **Gas & Water Distribution Industry** - Applied in testing polyethylene pipes used in pressurized gas and water networks to verify resistance to crack initiation and slow crack growth.
- **Construction & Infrastructure Projects** - Supports compliance testing of pipes and plastics for sewage, drainage, and utility applications where long-term reliability is critical.

- **Universities & Technical Institutes** - Serves as a training and research tool for teaching impact testing, crack growth resistance, and standardized specimen preparation methods.
- **Failure Analysis & Maintenance Centers** - Enables preparation of precise notched samples for forensic investigation of pipe failures, material defects, and long-term degradation.

FEATURES

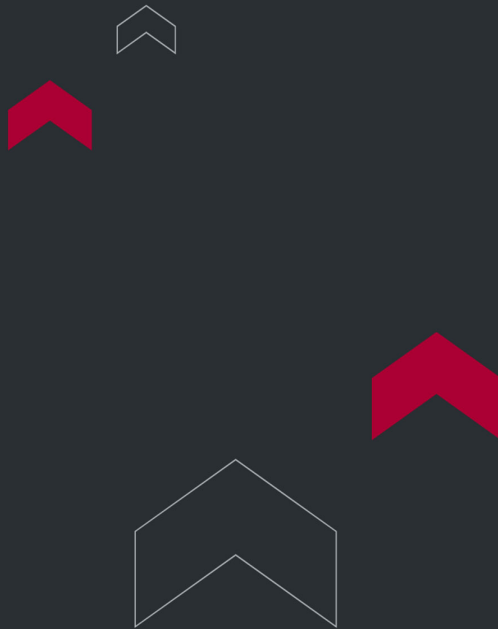
Coplanar Double Notch Cutter for Pipes and Plastics Features

1. Enables simultaneous preparation of both sides of the coplanar notch in a single operation.
2. A precision-engineered structure ensures perfect alignment between the notches and the specimen’s centerline.
3. An electronic micrometer measures notch depth, ensuring high accuracy and consistent remaining width across specimens.
4. Dual-blade cutting with synchronized motion applies equal force to both sides, minimizing radial deformation.
5. The blade experiences only axial force, significantly extending its service life.

TECHNICAL SPECIFICATIONS

Parameter	Specification
Knife thickness	0.23mm ±0.03mm
Blade cutting angle	14° ±2°

Parameter	Specification
Blade width	19mm
Clamp opening range	2mm to 20mm
Specimen length range	80mm to 120mm
Residual width accuracy	±0.02mm
Notch accuracy	±0.02mm
Notch depth	5.5mm, 4.3mm, 4mm, 3mm, 1.3mm



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