



## Core Cutting Machine for Sample Preparation – CoreTrim 3000



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### Description

**CoreTrim 3000** is a **fully automatic core cutting machine** used for rock sample preparation. It cuts cylindrical core samples in a controlled cutting process and is intended for laboratories working with routine core specimen preparation before testing.

During cutting, an integrated water spray is applied to limit dust. The cutting cycle runs automatically and returns the blade to the starting point (home position) at the end of the cycle.

CoreTrim 3000 is built around electronic control and a simple start procedure, so the operator loads the samples, starts the cycle, and the machine completes the cutting sequence automatically.



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## Main Features And Capabilities

CoreTrim 3000 combines fully automatic core cutting functions for rock sample preparation with the controls and operating features required for repeatable, production-style lab workflows. Key features and capabilities include:

- **Automatic Electronic Control System:** Runs the cutting sequence automatically with electronic control for consistent cycle execution.
- **Core Diameter Range:** Cuts cylindrical core samples from 1.50 to 3.94 in (38 to 100 mm).
- **Multi-Sample Cutting Capacity:** Processes up to 3 core samples per automatic cycle for 3.94 × 7.87 in (100 × 200 mm) specimens.
- **Cutting Angle Accuracy:** Provides cutting accuracy up to 0.1° for sample preparation requiring tight angle control.
- **Automatic Water Spray Against Dust:** Applies water during cutting to reduce dust and support a cleaner cutting process.
- **Cycle Time:** Completes a fully automatic cycle for 3 samples in approximately 120 s.
- **Home Position Return:** Returns the cutting blade automatically to the starting point (home position) at the end of the cycle.

## How It Works

This core cutting machine follows a simple operating sequence for automatic core cutting during sample preparation:

1. Load the core samples into position.
2. Start the automatic cutting cycle.
3. The machine performs cutting automatically, applying water spray to reduce dust during the process.
4. At the end of the cycle, the blade returns automatically to home position.



## Applications

CoreTrim 3000 is used for rock sample preparation where cylindrical core specimens must be cut before laboratory testing.

- Rock Mechanics Testing Laboratories
- Core Sample Preparation For Routine Testing
- Geological And Research Sample Preparation Workflows

## Technical Specifications

Key technical specifications for CoreTrim 3000, a core cutting machine for sample preparation, are listed in the table below.

Specification	Value
Machine Type	Fully Automatic Core Cutting Machine For Sample Preparation
Core Diameter Range	1.50 to 3.94 in (38 to 100 mm)
Capacity Per Cycle	Up To 3 Samples
Supported Specimen Size	3.94 × 7.87 in (100 × 200 mm)
Cutting Angle Accuracy	Up To 0.1°
Cycle Time	Approximately 120 s per cycle for 3 samples
Dust Control	Automatic Water Spray During Cutting
Blade Return	Automatic Return To Home Position
Power Supply	220 V AC, 50 to 60 Hz



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## Request A Quote For CoreTrim 3000

For pricing, lead time, and product configuration details, [request a quote](#) for CoreTrim 3000 or [contact us](#) directly to discuss your core diameters, specimen size, required throughput, and local power standard.

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