



TORONTECH



STABLE ROTARY MICROTOME

Stable Rotary Microtome - ToronTome™ 350

Automatic Rotary Microtome ToronTome™ 350 is a precision Microtome developed for research institutions, laboratories, and medical pathology departments that need dependable sectioning of routine and harder embedded specimens. Stable Rotary Microtome - ToronTome™ 350 is built with a precision roller cross guide and strength alloy steel construction for stable sectioning performance.

This Rotary Microtome is positioned for users who need accurate feed movement, repeatable section quality, and a compact mechanical platform that is easy to operate in daily lab work. Particularly suited for harder sample types such as plastic, fiber, bone, plant, and hair, which makes it useful beyond routine soft-tissue work.

ToronTome™ 350 combines manual rotary sectioning with a durable structure, handwheel locking, and flexible blade handling. Stable Rotary Microtome - ToronTome™ 550 is designed to support consistent slicing in pathology, research, and specialty sample-preparation workflows.

APPLICATIONS

Stable Rotary Microtome - ToronTome™ 350 Applications

- Histology and pathology laboratories: ToronTome™ 350 is suitable for tissue sectioning in histology and pathology environments. Specifically for medical pathology use among the intended applications for this Microtome.
- Research institutions and academic laboratories: research institutions and laboratories as core users. This makes the system a practical Rotary Microtome for academic labs, biomedical departments, and general research sample preparation.
- Hard tissue and specialty specimen sectioning: the instrument is particularly suited for slicing harder materials such as plastic, fiber, bone, plant, and hair. This supports use in specialty workflows where standard soft-tissue sectioning

equipment may not be the first choice.

- Routine embedded sample preparation: With its controlled feed, compact footprint, and blade-carrier flexibility, ToronTome™ 350 also fits routine embedded specimen preparation where repeatable section thickness and stable manual operation are required. This application is a practical inference design and sample suitability.



Standards

- **ISO 9001:2008** is a foundational international standard for quality management systems that mandates strict process control and comprehensive documentation to ensure manufacturing consistency. Within the industrial testing sector, it established the rigorous framework for quality manuals and corrective actions required to guarantee that equipment consistently meets exact technical specifications and global regulatory compliance.

FEATURES

Stable Rotary Microtome - ToronTome™ 350 Key Features

- Precision roller cross guide: the system uses a precision roller cross guide, according to the supplier page. This is intended to support smoother motion and more stable sectioning performance.
- Strength alloy steel construction: this rigid build supports durability and helps maintain stable cutting behavior during repeated use.
- Suitable for hard and specialty specimens: ToronTome™ 350 is presented as especially suitable for hard tissue and related materials such as plastic, fiber, bone, plant, and hair. This broadens the practical use of the Rotary Microtome beyond standard paraffin work.



- Adjustable blade carrier: the blade carrier can be adjusted. This helps the operator optimize blade position and cutting angle for different sample conditions.
- Disposable blade and steel-knife compatibility: a standard blade carrier for steel knife or blade holder, with optional accessories including a blade holder and disposable microtome blades. This gives users flexibility in how they configure the cutting setup.
- Handwheel locking: the handwheel can be locked in any position. This supports safer specimen loading, trimming setup, and blade handling.
- Compact benchtop footprint: with a listed size of 400 × 350 × 350 mm and net weight of 30.5 kg, the unit is compact enough for routine laboratory bench installation while still offering a stable mechanical layout.

- Research and pathology-oriented design: the instrument for research institutions, laboratories, and medical pathology departments. This reinforces its role as a practical daily-use Microtome for controlled sectioning tasks.

THEORY & METHOD

Theory and Method

A Rotary Microtome produces thin sections by advancing a specimen block toward a blade in controlled increments. The operator mounts the sample, aligns it relative to the blade, sets the desired thickness, and rotates the handwheel to generate sections for microscopy or related analytical work. This method is the core operating principle of manual and semi-mechanical rotary sectioning systems. Stable Rotary Microtome - ToronTome™ 350 is a rotary microtome designed for precision sectioning.

ToronTome™ 350 uses a precision roller cross guide and a rigid mechanical structure to support smoother specimen travel and stable cutting. The blade carrier can be adjusted and the handwheel can be locked in any position, which helps the operator control blade geometry and specimen handling during trimming and sectioning.

Section quality depends on feed stability, specimen alignment, blade sharpness, and vibration control. That is why this Microtome focuses on a strong alloy-steel structure, guided specimen movement, and a compact sectioning layout intended for dependable daily performance.

TECHNICAL SPECIFICATIONS

Stable Rotary Microtome - ToronTome™ 350 Technical Specification

Parameter	ToronTome™ 350
Product Type	Stable Rotary Microtome
Section Thickness Range	1-30 µm
Minimum Setting Value	1 µm
Horizontal Specimen Feed	35 mm
Vertical Specimen Stroke	46 mm
Precision Error	±5%
Maximum Section Size	60 × 30 mm
Dimensions	400 × 350 × 350 mm
Net Weight	30.5 kg

Standard Accessories

Standard Accessory	Quantity
Clamp	1
Blade Carrier for Steel Knife or Blade Holder	1
Cassettes	50 pcs
Steel Knife	1

Optional Accessories

- Blade Holder
- Microtome Disposable Blade
- Cassette Clamp



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