

Technical data/accessories



Knife carrier systems

Disposable blade carrier E

Clamping plate that can be moved aside for easy positioning of the blade. For high and low profile blades.

Disposable blade carrier ER

The blade can be moved aside without opening the blade clamping. For high and low profile blades.

Disposable blades SEC 35

Of high-quality steel and coated with a newly developed, unique layer allowing best cutting results with longevity of the knife.

Standard knife carrier N

For conventional knives, tungsten carbide knives and disposable blade holders with knife height adjustment.

Standard knife carrier C

With central clamping plate for highest stability clamping.

Technical features HM 340 E

- Ergonomic design
- Compact dimensions
- Vertical guidance by zero-backlash and maintenance-free cross roller bearings
- Electronic precision feed mechanism with stepping motor technology
- Section thickness range from 0,5 up to 500 µm
- Especially smooth running handwheel
- One-hand quick clamp change
- Fine orientation with one-hand operation and zero positioning
- Easy exchange of specimens
- Specimen retraction during return travel, can be turned off
- Two section thickness areas that can be pre-selected; easy switchable
- Removable operating panel with full-graphic display
- Indication of all relevant information such as section thickness, trim thickness, number of sections, section thickness sum, remaining travel of the specimen feed as well as time and date
- Reduced number of buttons for intuitive operation
- Patented and ergonomic one-knob operation of the specimen feed with variable speed adjustment
- Indication of cutting parameters, can be switched over to large indication
- Large section waste tray, covering the entire working area
- Ergonomically optimized operating elements for non-tiring usage
- Design with highest demands concerning operational safety and ergonomics
- Integrated removable storage plate

Technical specifications HM 340 E

- Stepping motor micrometer mechanism
- Specimen retraction during return travel: 40 µm, can be turned off
- Section thickness range FINE:
 - 0,5 µm up to 100 µm
 - from 0,5 ... 2 µm in 0,5 µm-increments
 - from 2 ... 10 µm in 1 µm- increments
 - from 10 ... 20 µm in 2 µm- increments
 - from 20 ... 30 µm in 5 µm- increments
 - from 30 ... 40 µm in 10 µm- increment
 - from 40 ... 100 µm in 20 µm- increments
- Section thickness range TRIM:
 - 5 up to 500 µm
 - from 5 ... 10 µm in 5 µm- increments
 - from 10 ... 100 µm in 10 µm- increments
 - from 100 ... 200 µm in 20 µm- increments
 - from 200 ... 500 µm in 50 µm- increments
- Horizontal overall specimen feed 28 mm
- Vertical specimen stroke 72 mm
- Specimen orientation universal 8°, can be rotated 360°

Dimensions: (W x D x H): 420 x 490 x 280 mm

Weight: 28 kg

Certificates: CE; c-CSA-us

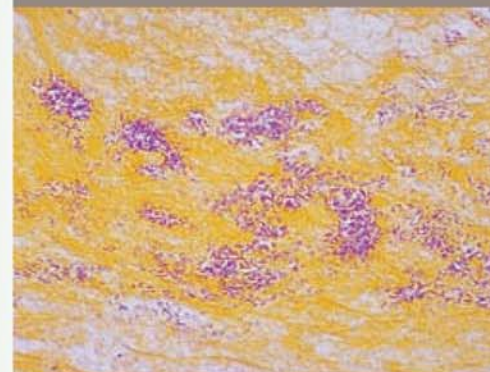
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Anatomical Pathology

Manufacturer

Microm International GmbH
Part of Thermo Fisher Scientific
Robert-Bosch-Str. 49
69190 Walldorf/Germany
Phone: +49(0)6227-8360
Fax: +49(0)6227-836111
e-mail: info.dxd.dewa@thermofisher.com
Internet: www.ap-walldorf.com

Thermo Scientific Microm HM 340 E Rotary Microtome



Innovation in tradition

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Part of Thermo Fisher Scientific

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SCIENTIFIC

Multi purpose microtome for routine and research

Innovation in tradition

Thermo Fisher Scientific Walldorf started as Microm:

The experience our specialists gained over decades in close relationship with scientists throughout the world combined with our continuous effort to achieve better engineering solutions result in the development of products of utmost reliability, user benefit and outstanding operator comfort. For decades Microm has defined the standard in operational safety and ergonomics in microtomy and cryo microtomy.

Today, Microm is part of Thermo Fisher Scientific the world leader in serving science. Thermo Scientific Microm product line: Manufactured in Walldorf, Germany.

We stand for:

- Highest operator safety
- Ergonomic design
- Trend setting innovative technology
- High quality standards
- Excellent price/performance ratio
- User-oriented design with an optimum of operator comfort



Zero-backlash vertical specimen movement

Two steps of 10 µm and 30 µm, ensuring a rapid and precise specimen advance to the knife and trimming of the specimen. This feature avoids the loss of biopsy material by cutting too much off the specimen by mistake.

Ergonomic coarse feed operation

The patented one-knob operation of the specimen feed represents another HM 340 E innovation on microtomy and can intuitively be comprehended. It allows the specific and secure approach of the specimen towards the knife with variable speed at a reduced expenditure of time. Due to the precise adjustable approach speed, the danger of damaging a specimen by an incorrect approach process can almost be excluded.

Specimen fine orientation with quick change function

- The specimen fine orientation allows a precise alignment of the specimen in horizontal (X-) and vertical (Y-) direction with 0-positioning.
- Equipped with a snap-in function, the parallel alignment towards the cutting surface is easy and fast.
- The operating knobs on the left side allow an ergonomic one-hand operation resulting in an easy accessibility, even when using large clamps or a Thermo Scientific Microm Cool-Cut.
- All clamping devices can easily and fast be replaced by loosening one lever only.
- The especially flat design guarantees favourable leverages to avoid artifacts, especially when high cutting forces are applied.



Thermo Scientific Microm HM 340 E Rotary Microtome

The high section stability and precision turn this instrument into an universal multi-purpose microtome for highest demands on sectioning paraffin as well as on the hard sectioning technique in biology, medicine and industry. The individual adaptability to the work flow in your specific laboratory allows the usage in wide-range application field.

Precise stepping motor technology

The large section thickness range from 0,5 µm up to 500 µm is practice-oriented and divided into fine sectioning and trim sectioning. With the preselection function you can switch between these two ranges by simply pressing a knob also while sectioning. The retraction function that can be turned off offers best conditions for highest section quality even with difficult specimens.

Integrated operating panel

The integrated removable operating panel can be positioned and used either in the left or right hand side of the instrument. To increase operator safety all operating knobs can be used with one hand and are accessible without encompassing. The operating knobs can also be replaced from left to right side and vice versa. The large graphical display shows all relevant information such as number of sections, section thickness sum, remain travel of specimen feed, date, and time. Alternately the current section thickness can be shown as large figure. Additional settings can be made in the menus.

Constant sections

The specimen approach via stepping motor provides an optimum on section quality and reproducibility.

Memory positioning

Storing a cutting position allows the fast movement to this position after having changed the specimen. Pressing one button, specimen moves into the cutting position.

Handwheel brake

The handwheel can be locked in any position and guarantees a safe specimens exchange.

Knife carrier system

The knife carrier system combines outstanding stability with unsurpassed ergonomics. The reduced number of levers cannot be mixed up during operation and are usable without any tools. The levers being adjustable and usable from right and left side simplify appliance with increased operator safety. The knife carrier system offers an individual configuration for each application. With the horizontal precision guidance standard knives, tungsten carbide knives and disposable blades (low and high profile) can be used. All knife holders are equipped with a finger guard.

Ergonomic design with unique section waste tray

The outstanding ergonomics in the daily routine is shown in the patented, well-shaped knife carrier insertion. The entire working area both behind and below the knife carrier is covered by a spacious removable section waste tray, which is very easy and fast to clean. The front area of the section waste tray is designed as an arm rest. This practice-oriented design is an exclusive feature of Microm.

Faster and better sectioning

- Ergonomic even in manual cutting mode. The "rocking mode" directly transmits the direction of the movement at the handwheel to the object – this helps to facilitate and speed-up the manual trimming process

