 Made in Germany

Rotary Microtomes

- › pfm Rotary 3004 M
- › pfm Rotary 3005 E
- › pfm Rotary 3006 EM

pfm medical's high performance rotary microtomes are suitable for all applications in routine use, research and industry.

www.pfmmedical.com



pfm medical's high performance **rotary microtomes** are suitable for all applications in routine use, research and industry. They incorporate the latest microtome technology featuring modern ergonomic design with ease of use. Their outstanding precision ensures consistently reliable results in daily use. Quality - Made in Germany.

Views



pfm Rotary 3004 M (manual)



pfm Rotary 3005 E (semi-electronic)



pfm Rotary 3006 EM (fully-electronic)

Benefits

Excellent section quality

The robust object and knife/blade holders operating in combination with the horizontal and vertical cross-roller bearing system guarantee maximum stability. This unique technology and the quality of the materials used is reflected in the reliable and consistently high sectioning quality. Together with its ergonomic design these features make pfm medical rotary microtomes ideal for situations with a high sample throughput.

Safe operation

When the object and knife are being mounted a handwheel lock is activated in order to prevent injury. If the handwheel lock is on, electronic versions of this device will visually indicate this on their display. A colour-marked finger guard offers additional safety in the area of the knife/blade edge.

The handwheel of the pfm Rotary 3006 EM has a removable handle to ensure maximum user safety during motorised sectioning. Additionally, the device can be stopped immediately by pushing the emergency stop button.

Simple operation

pfm medical's electronic rotary microtomes are equipped with a modern touch screen system. The control panels and display elements are clearly arranged according to their functions. This makes the microtome easy and convenient to operate.

Precise orientation of samples

The specimens can be aligned quickly and easily to the desired position as well as advanced to the knife/blade edge by using the object orientation system along the X/Y axes and the colour coded tangible zero point setting.

Suitable for large samples

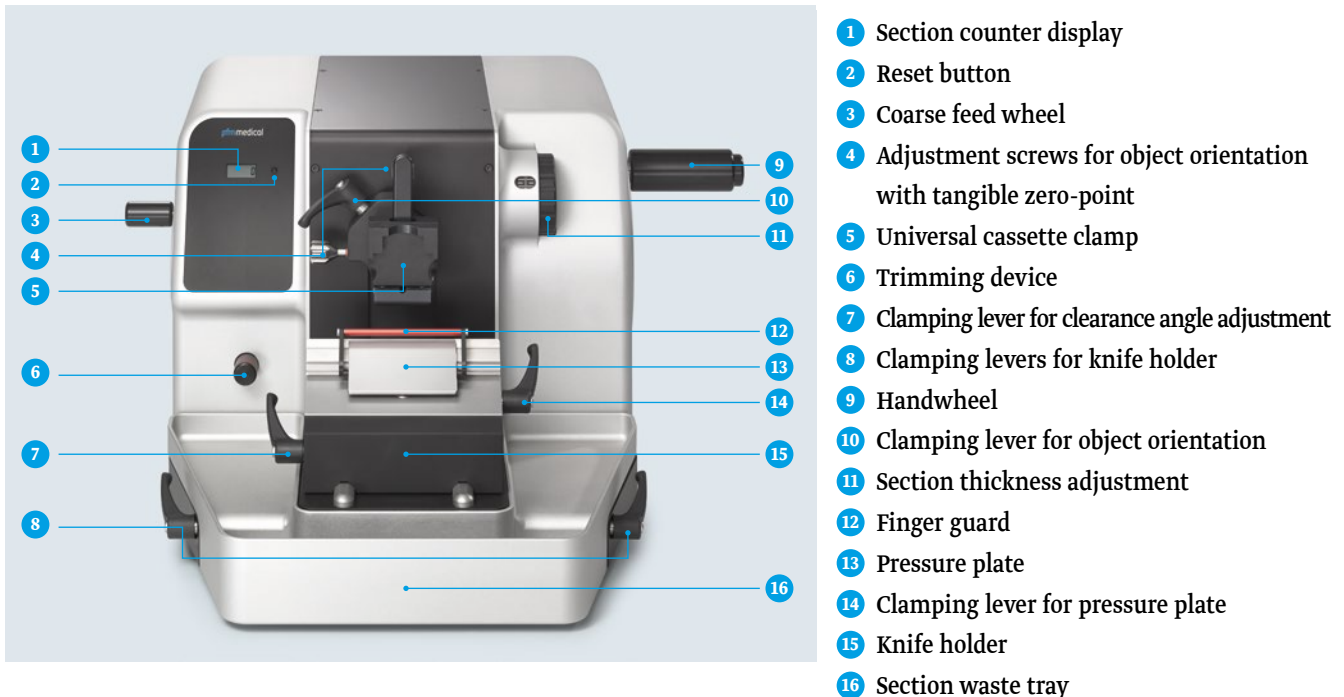
pfm medical's rotary microtomes are also suitable for use with large universal cassette clamps and can be converted without difficulty. This means that samples of different sizes can be processed depending on customers' requirements.

Easy cleaning and care

The surface of the housing is fully anodised and easy to clean. The waste produced during sectioning is caught by the integrated section waste tray and is then easy to discard. The section waste tray is also anodised and easy to clean.

The **pfm Rotary 3004 M** is a modern, newly-designed manual rotary microtome for all applications in routine use, research and industry.

View



Details

- ▶ Ergonomic design
- ▶ Backlash- and maintenance-free horizontal and vertical cross-roller bearing system
- ▶ Smooth-running handwheel
- ▶ Handwheel locking system in each position
- ▶ Quick change system for object clamps
- ▶ Ease of object orientation due to tangible zero point setting
- ▶ Retraction system
- ▶ Trimming device
- ▶ Section counter
- ▶ Finger guard

Technical Data

- ▶ **Coarse feed:** manually via coarse feed wheel
- ▶ **Fine feed:** manually via handwheel
- ▶ **Section thickness:** 0.5 - 60 μm
- ▶ **Setting range:** 0.5 - 10 μm in 0.5 μm steps/10 - 20 μm in 1 μm steps
20 - 60 μm in 5 μm steps
- ▶ **Trimming device:** two trimming steps 10 μm and 20 μm
- ▶ **Retraction:** 40 μm
- ▶ **Horizontal range:** 30 mm
- ▶ **Vertical range:** 70 mm
- ▶ **Object orientation:** x- and y-axes universal 8°, z-axis up to 360°
- ▶ **Maximum sample size:**
 - ▶ Universal cassette clamp, standard embedding cassettes
 - ▶ Standard object clamp large, sample size 45 x 60 mm
 - ▶ Universal cassette clamp large, super mega embedding cassettes
- ▶ **Dimensions (W/D/H):** 450 x 530 x 275 mm
- ▶ **Weight:** 38 kg

Ordering Information

pfm Rotary 3004 M

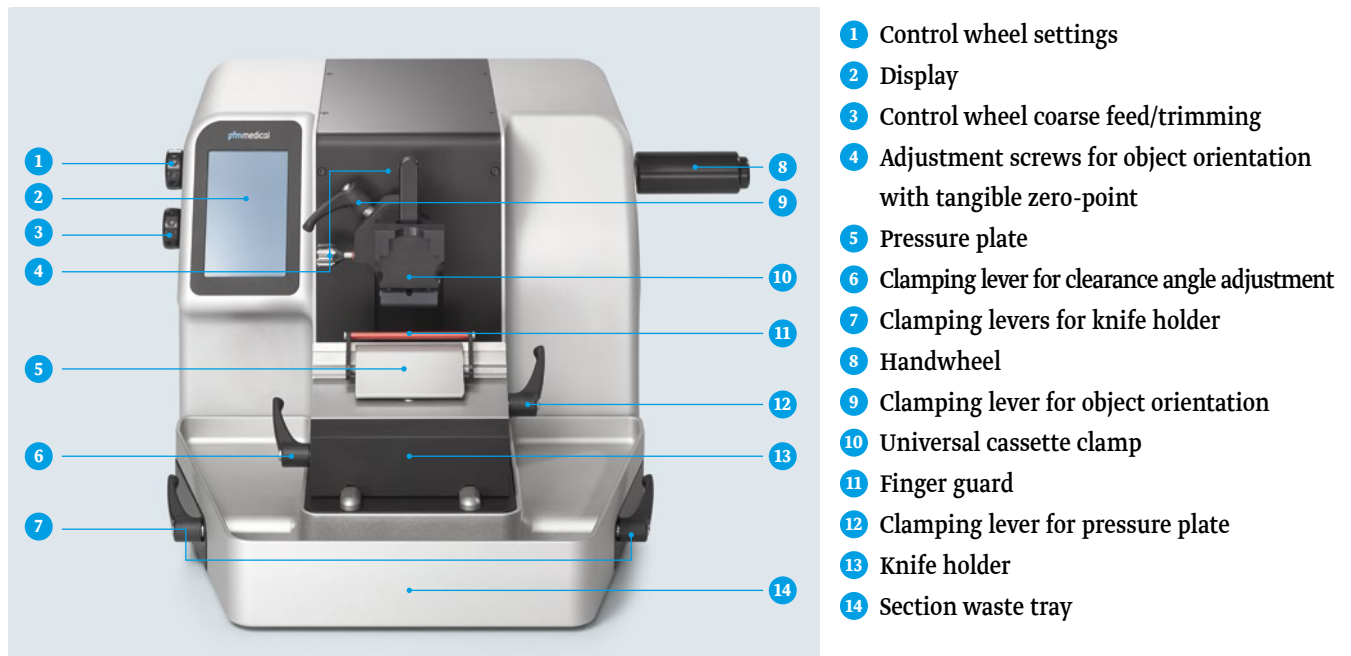
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Including

- ▶ Base device
- ▶ 1 Section waste tray
- ▶ 1 Protective cover
- ▶ 1 Operating manual IFU2003004
- ▶ Without knife holder base and upper jaw
- ▶ Without object clamp

The **pfm Rotary 3005 E** is a modern, newly-designed semi-electronic rotary microtome for all applications in routine use, research and industry.

View



Details

- ▶ Ergonomic design
- ▶ Backlash- and maintenance-free horizontal and vertical cross-roller bearing system
- ▶ Smooth-running handwheel
- ▶ Handwheel locking system in each position
- ▶ Quick change system for object clamps
- ▶ Ease of object orientation due to tangible zero point setting
- ▶ Memory function
- ▶ All electronic settings and functions are operated by a touch screen
- ▶ Section counter
- ▶ Section thickness addition
- ▶ Finger guard

Technical Data

- ▶ **Section thickness:** 0.5 - 100 µm
- ▶ **Setting range:** 0.5 - 10 µm in 0.5 µm steps/10 - 20 µm in 1 µm steps
20 - 50 µm in 5 µm steps/50 - 100 µm in 10 µm steps
- ▶ **Trimming mode:** 1 - 500 µm
- ▶ **Retraction:** 0 - 100 µm in 5 µm steps
- ▶ **Coarse feed speed:** 1.7 mm/s
- ▶ **Remaining feed indication 1 mm horizontal:** visual and audible
- ▶ **Horizontal range:** 30 mm
- ▶ **Vertical range:** 70 mm
- ▶ **Object orientation:** x- and y-axes universal 8°, z-axis up to 360°
- ▶ **Maximum sample size:**
 - ▶ Universal cassette clamp, standard embedding cassettes
 - ▶ Standard object clamp large, sample size 45 x 60 mm
 - ▶ Universal cassette clamp large, super mega embedding cassettes
- ▶ **Power supply:** 100/120/230/240 V AC, 50 - 60 Hz
- ▶ **Dimensions (W/D/H):** 450 x 530 x 275 mm
- ▶ **Weight:** 38 kg

Ordering Information

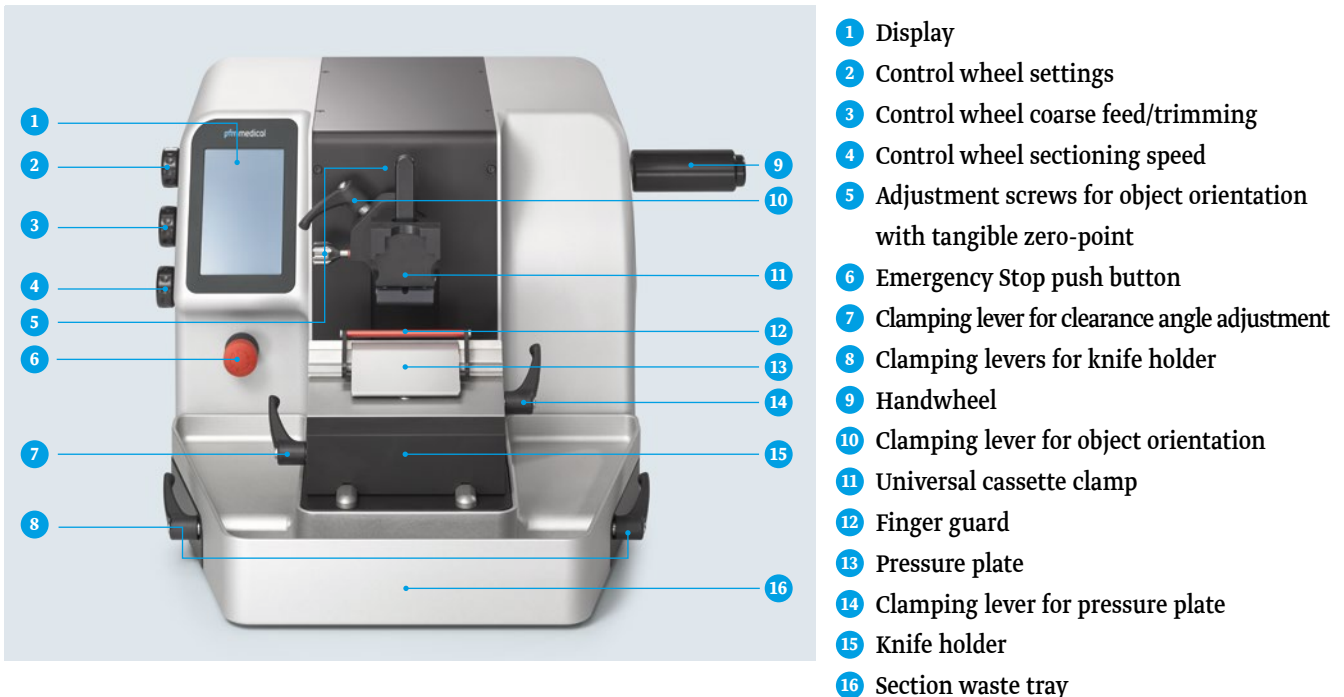
pfm Rotary 3005 E

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Including	<ul style="list-style-type: none"> ▶ Base device ▶ 1 Section waste tray ▶ 1 Protective cover ▶ 1 Operating manual IFU2003005 	<ul style="list-style-type: none"> ▶ Without knife holder base and upper jaw ▶ Without object clamp
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The **pfm Rotary 3006 EM** is a modern, newly-designed fully-electronic rotary microtome for all applications in routine use, research and industry.

View



- 1 Display
- 2 Control wheel settings
- 3 Control wheel coarse feed/trimming
- 4 Control wheel sectioning speed
- 5 Adjustment screws for object orientation with tangible zero-point
- 6 Emergency Stop push button
- 7 Clamping lever for clearance angle adjustment
- 8 Clamping levers for knife holder
- 9 Handwheel
- 10 Clamping lever for object orientation
- 11 Universal cassette clamp
- 12 Finger guard
- 13 Pressure plate
- 14 Clamping lever for pressure plate
- 15 Knife holder
- 16 Section waste tray

Details

- ▶ Ergonomic design
- ▶ Backlash- and maintenance-free horizontal and vertical cross-roller bearing system
- ▶ Smooth-running handwheel with removable handle
- ▶ Handwheel locking system in each position
- ▶ Quick change system for object clamps
- ▶ Ease of object orientation due to tangible zero point setting
- ▶ All electronic settings and functions are operated by a touch screen
- ▶ Cutting window
- ▶ Memory function
- ▶ Section counter
- ▶ Section thickness addition
- ▶ Finger guard
- ▶ Foot switch

Technical Data

- ▶ **Section thickness:** 0.5 - 100 μm
- ▶ **Setting range:** 0.5 - 10 μm in 0.5 μm steps/10 - 20 μm in 1 μm steps
20 - 50 μm in 5 μm steps/50 - 100 μm in 10 μm steps
- ▶ **Trimming mode:** 1 - 500 μm
- ▶ **Retraction:** 0 - 100 μm in 5 μm steps
- ▶ **Coarse feed speed:** 1.7 mm/s
- ▶ **Sectioning modes:** manual, continuous, single, step
- ▶ **Sectioning speed max.:** 300 mm/s
- ▶ **Remaining feed indication 1 mm horizontal:** visual and audible
- ▶ **Horizontal range:** 30 mm
- ▶ **Vertical range:** 70 mm
- ▶ **Object orientation:** x- and y-axes universal 8°, z-axis up to 360°
- ▶ **Maximum sample size:**
 - ▶ Universal cassette clamp, standard embedding cassettes
 - ▶ Standard object clamp large, sample size 45 x 60 mm
 - ▶ Universal cassette clamp large, super mega embedding cassettes
- ▶ **Power supply:** 100/120/230/240 V AC, 50 - 60 Hz
- ▶ **Dimensions (W/D/H):** 450 x 530 x 275 mm
- ▶ **Weight:** 38 kg

Ordering Information

pfm Rotary 3006 EM

REF 0300610

- | | | |
|------------------|--|--|
| Including | <ul style="list-style-type: none"> ▶ Base device ▶ 1 Section waste tray ▶ 1 Protective cover ▶ 1 Operating manual IFU2003006 | <ul style="list-style-type: none"> ▶ Without knife holder base and upper jaw ▶ Without object clamp ▶ Without foot switch |
|------------------|--|--|

Ordering Accessories



Universal cassette clamp

REF 010003

- ▶ Object clamp to be used with orientable adapter or fixed adapter
- ▶ Quick-release clamp system for all available cassettes
- ▶ Crossways and lengthways clamping possible



Universal cassette clamp, orientable

REF 013019

- ▶ Universal cassette clamp, orientable
- ▶ Quick-release clamp system for all available cassettes
- ▶ Crossways and lengthways clamping possible



Standard object clamp

REF 010004

- ▶ Object clamp to be used with orientable adapter or fixed adapter
- ▶ Maximum specimen size: 40 x 45 mm



Standard object clamp, orientable

REF 010044

- ▶ Orientable version with adapter
- ▶ Maximum specimen size: 40 x 45 mm



Universal cassette clamp large

REF 013022

- ▶ Object clamp to be used with orientable adapter or fixed adapter
- ▶ Quick-release clamp system for large embedding cassettes
- ▶ Crossways and lengthways clamping possible



Universal cassette clamp large, orientable

REF 013020

- ▶ Orientable version with adapter
- ▶ Quick-release clamp system for large embedding cassettes
- ▶ Crossways and lengthways clamping possible



Standard object clamp large

REF 013010

- ▶ Non-orientable version for direct adaptation
- ▶ For large specimens
- ▶ Maximum specimen size 45 x 60 mm



Standard object clamp large, orientable

REF 013009

- ▶ Orientable version with adapter
- ▶ For large specimens
- ▶ Maximum specimen size 45 x 60 mm



Adapter orientable

REF 013016

- ▶ The orientable adapter is suitable for pfm Slide and Rotary microtomes
- ▶ For object orientation



Adapter fixed

REF 030055

- ▶ Adapter for direct adaptation

Ordering Accessories

**Foil clamp,
non orientable****REF** 030056

- ▶ Spring loaded jaws secure the specimen in position
- ▶ To be used with orientable adapter or fixed adapter

**Foil clamp,
orientable****REF** 030057

- ▶ Spring loaded jaws secure the specimen in position
- ▶ Orientable version with adapter

**Round specimen clamp,
orientable****REF** 030058

- ▶ For hard sectioning of round specimens (6, 15 and 25 mm diameter)
- ▶ Orientable version with adapter
- ▶ Without inserts

**Insert for round
specimen clamp, 6 mm****REF** 030059

- ▶ Diameter 6 mm

**Insert for round
specimen clamp, 15 mm****REF** 030060

- ▶ Diameter 15 mm

**Insert for round
specimen clamp, 25 mm****REF** 030061

- ▶ Diameter 25 mm

**V-insert****REF** 030062

- ▶ To be fitted in the standard object clamp
- ▶ To fix variable size of round specimens

**R-insert****REF** 030063

- ▶ To be fitted in the standard object clamp
- ▶ For round specimens diameter 24-25 mm

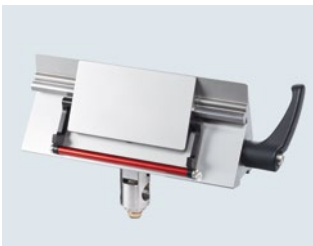
**Standard knife holder,
upper jaw****REF** 030064

- ▶ For use with steel and tungsten carbide knives up to 16 cm length.
- ▶ With finger guard

**Disposable blade holder,
upper jaw, low profile****REF** 030052

- ▶ For use with low profile disposable microtome blades (narrow blades).
- ▶ Removable pressure plate
- ▶ Easy to clean

Ordering Accessories



Disposable blade holder, upper jaw, high profile

REF 030053

- ▶ For use with high profile disposable microtome blades (wide blades).
- ▶ Removable pressure plate
- ▶ Easy to clean



Disposable blade holder, upper jaw, HP TC

REF 030065

- ▶ For use with FEATHER® microtome blade HP TC
- ▶ Removable pressure plate
- ▶ To be fitted on the pfm Rotary 3006 EM
- ▶ Easy to clean



Knife holder base

REF 030051

- ▶ Designed to hold the upper jaw of the disposable blade holder
- ▶ Fixed to the microtome base plate using the knife holder mounting device
- ▶ Removable
- ▶ Easy to clean



Field magnifier set with illumination

REF 030066

- ▶ Magnification 2.5 x
- ▶ For facilitate the knife/blade alignment and approach for sectioning
- ▶ Optimal view position



Foot switch

REF 030054

- ▶ To be fitted on the pfm Rotary 3006 EM



Section waste tray

REF 030050

- ▶ Material: anodised aluminium
- ▶ Easy to clean

Contact

Should you have any questions our Customer Solutions Team is happy to advise you.

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DIN EN ISO 13485

