 Made in Germany

Sliding Microtomes

› pfm Slide 4004 M

› pfm Slide 4005 E

The new manual and electronic sliding microtomes from pfm medical ag are high-performance microtomes for all applications in routine use, research and industry.

www.pfmmedical.com



pfm medical's **sliding microtomes** are suitable for all applications in routine use, research and industry. Both machines are designed specifically to meet the user's needs. Their features are characterised by efficiency, versatility, and consistently accurate results produced in daily use. Quality - Made in Germany.

Views



pfm Slide 4004 M (manually)*

* (pfm Slide 4004 M and pfm Slide 4005 E with pfm Blade Holder)



pfm Slide 4005 E (electronically)*

General Benefits

Excellent section quality

In daily use, the unprecedented smooth and stable sliding action of the knife holder over the horizontal cross-roller bearing system, offers stress free operation of the microtome. The vertical stroke of the specimen holder, also equipped with a cross roller bearing system, avoids vibration and is free of backlash. This unique technology results in consistent production of high quality sections.

Precise alignment of the specimen

With the help of the object orientation system on the X/Y-axes, the colour-coded zero-position, and the rotating knife holder, the specimens can be aligned quickly and easily in the desired position. This allows the specimen to be easily advanced to the knife/blade edge.

Safe operation

During the adjustment process the slide is latched into a fixed position by its locking device in order to prevent injury when setting up the specimen or the blade. A colour marked finger guard offers additional protection in the area of the knife/blade edge.

Flexible configuration

A wide range of object clamps and knife holders ensures versatility and accurate configuration according to the customers' requirements.

Easy cleaning and care

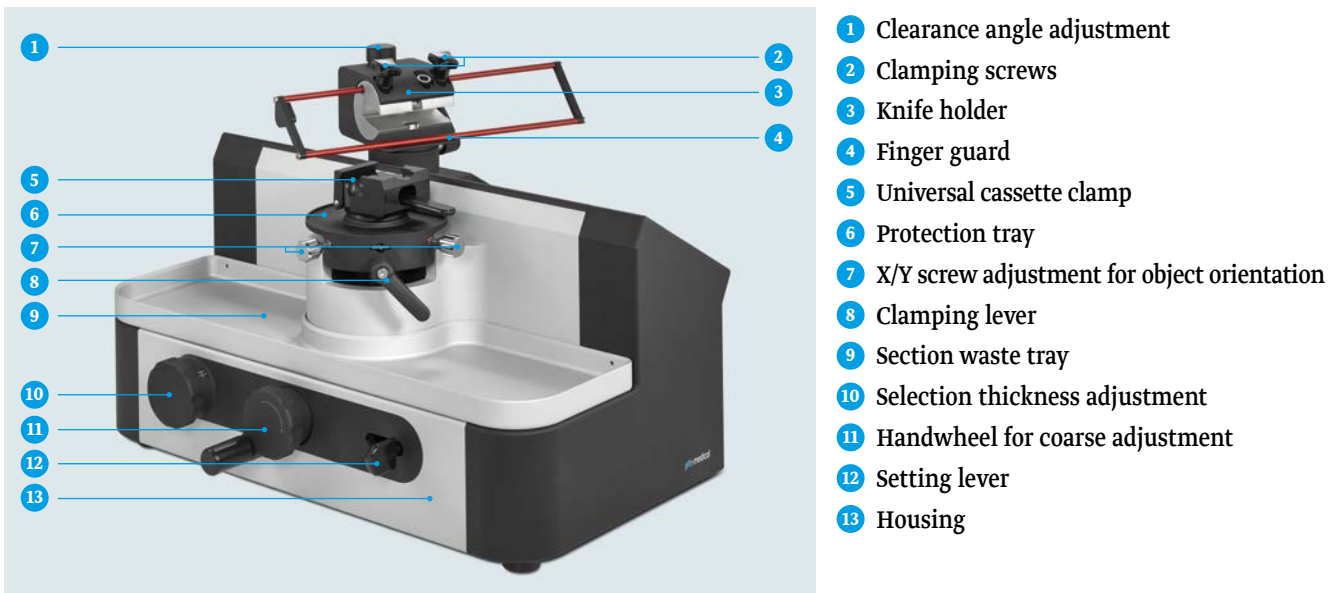
The housing surfaces are fully anodized and easy to clean. The waste produced during sectioning is collected in the integrated section waste tray, and then can easily be disposed of. The section waste tray is also anodized and easy to clean.

Details

- ▶ Modular system with ergonomic design
- ▶ Smooth and stable knife sliding action
- ▶ Stable and distortion-free housing
- ▶ Micrometer enclosed in housing for protection
- ▶ Quick change system for universal cassette clamp and standard object clamp
- ▶ Rotating knife holder with modern eccentric clamp
- ▶ Easy adjustment of the blade angle without unclamping the knife
- ▶ Three position knife slide lock
- ▶ Section waste tray (optional)
- ▶ Finger guard
- ▶ Section counter (4005 E)
- ▶ Section thickness addition (4005 E)

The **pfm Slide 4004 M** is a modern, newly-designed manual sliding microtome for all applications in routine use, research and industry.

View



- 1 Clearance angle adjustment
- 2 Clamping screws
- 3 Knife holder
- 4 Finger guard
- 5 Universal cassette clamp
- 6 Protection tray
- 7 X/Y screw adjustment for object orientation
- 8 Clamping lever
- 9 Section waste tray
- 10 Selection thickness adjustment
- 11 Handwheel for coarse adjustment
- 12 Setting lever
- 13 Housing

Benefits

Precise infeed

The section thickness on the manual pfm Slide 4004 M can be adjusted either manually, using the setting lever, or automatically by means of the automatic section thickness infeed. Coarse feed is achieved using the handwheel.

Technical Data

- ▶ **Fine feed:** manually or automatically
- ▶ **Coarse feed:** manually via coarse feed wheel
- ▶ **Section thickness:** 0.5 - 40 μm
- ▶ **Setting range:** 0.5 - 10 μm in 0.5 μm steps / 10 - 40 μm in 5 μm steps
- ▶ **Object orientation:** X- and Y-axes universal 8°, Z-axis up to 360° (exception of large object clamps)
- ▶ **Vertical/Horizontal range:** 48 mm/180 mm
- ▶ **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):** 340 x 420 x 300 mm
- ▶ **Weight:** 22 kg

Ordering Information

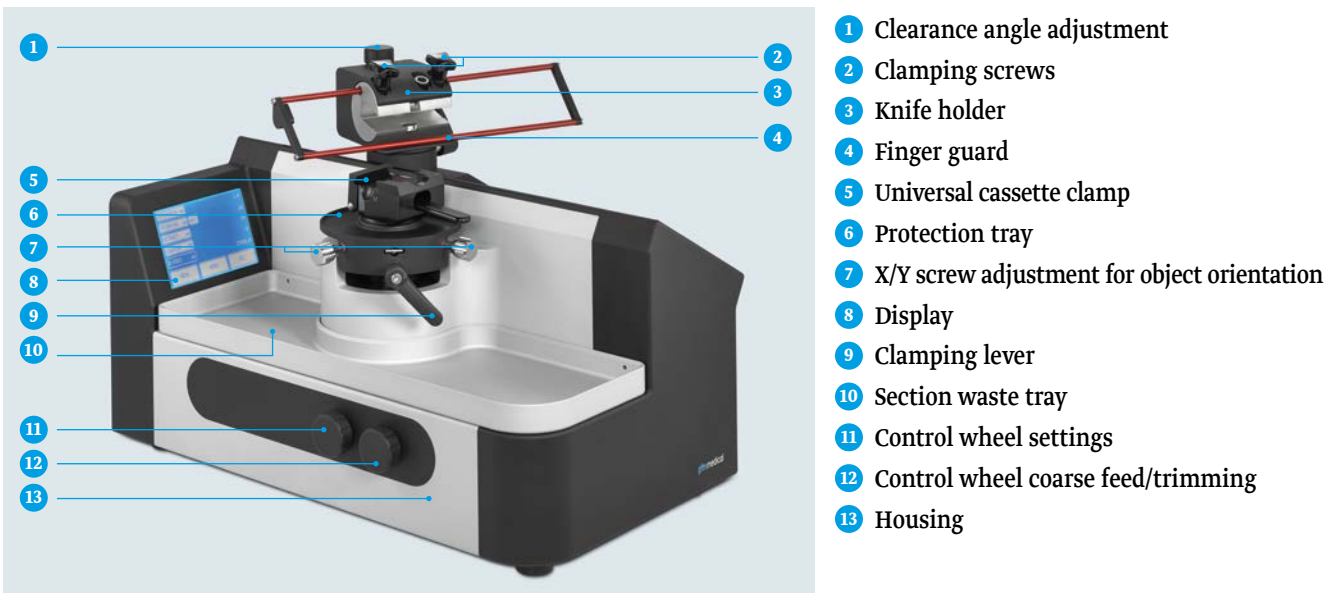
pfm Slide 4004 M

REF 400410

- | | | |
|------------------|--|---|
| Including | <ul style="list-style-type: none"> ▶ Base device ▶ 1 Protective cover ▶ 1 Operating manual IFU2004004 | <ul style="list-style-type: none"> ▶ Without knife holder ▶ Without object clamp orientable ▶ Without section waste tray |
|------------------|--|---|

The **pfm Slide 4005 E** is a modern, newly-designed electronic sliding microtome for all applications in routine use, research and industry.

View



Benefits

Precise infeed

On the pfm Slide 4005 E, an electronic stepping motor controls the fine feed, trimming and coarse feed function, as well as retraction.

Simple operation

The electronic pfm Slide 4005 E is equipped with a modern touch screen system. The control panels and displays are arranged clearly and by function.

Memory function

The last vertical position of the sample in use is stored by means of the memory function, so that the same position can be recalled when reactivated.

Technical Data

- ▶ **Fine feed:** automatically via sliding movement
- ▶ **Section thickness:** 0.5 - 100 μm
- ▶ **Setting range:** 0 - 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
- ▶ **Coarse feed:** automatically
- ▶ **Coarse feed speed:** 1.7 mm/s
- ▶ **Trimming mode:** 1 - 500 μm in 1 μm steps
- ▶ **Retraction:** 0 - 100 μm in 5 μm steps
- ▶ **Remaining feed indication 1 mm horizontal:** visual and audible
- ▶ **Object orientation:** X- and Y-axes universal 8°, Z-axis up to 360° (exception of large object clamps)
- ▶ **Vertical/Horizontal range:** 30 mm/180 mm
- ▶ **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):** 300 x 420 x 300 mm
- ▶ **Weight:** 22 kg

Ordering Information

pfm Slide 4005 E

REF 400510

Including

- ▶ Base device
- ▶ 1 Protective cover
- ▶ 1 Operating manual IFU2004005
- ▶ Without knife holder
- ▶ Without object clamp orientable
- ▶ Without section waste tray

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**

- ▶ Orientable version with adapter
- ▶ 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**

- ▶ Object clamp to be used with orientable adapter or fixed adapter
- ▶ 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

Ordering Accessories



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



Knife Holder

REF 013000

- ▶ The knife holder with finger guard is suitable for use with all conventional knives and blade holders.



pfm Blade Holder

REF 013001

- ▶ Direct fixing on the microtome with eccentric clamping
- ▶ Removable and easy to clean
- ▶ Finger guard



One Touch Knife Holder

REF 010009

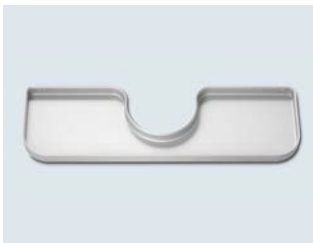
- ▶ The One Touch knife holder with finger guard is suitable for use with all conventional knives and blade holders.
- ▶ Preset non-adjustable clearance angle



Adapter support, fixed

REF 010015

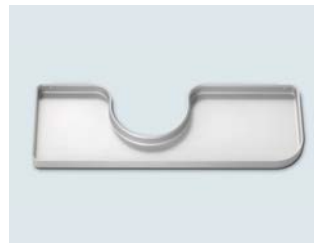
- ▶ The fixed adapter serves to attach various clamps which can then be mounted with the adapter of the standard object clamp.
- ▶ Also suitable for older microtomes



**Section waste tray
pfm Slide 4004 M**

REF 400420

- ▶ Material: anodised aluminium
- ▶ Easy to clean



**Section waste tray
pfm Slide 4005 E**

REF 400520

- ▶ Material: anodised aluminium
- ▶ Easy to clean

Contact

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

✉ service@pfmmedical.com

☎ +49 (0)2236 9641-220

☎ +49 (0)2236 9641-51

pfm medical ag
Wankelstraße 60
50996 Köln
Germany

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