
Sliding Microtome pfm Slide 4003 E

The electronic sliding microtome pfm Slide 4003 E by pfm medical ag is a powerful instrument with adjustable retraction, suitable for all paraffin work in routine practice, research and industry.

www.pfmmedical.com



The electronic sliding microtome **pfm Slide 4003 E** by pfm medical ag is a powerful instrument with adjustable retraction, suitable for all paraffin work in routine practice, research and industry.

View



- | | | | |
|------------------------------|--|---------------------------|------------------|
| 1 Clearance angle adjustment | 5 Universal cassette clamp | 8 Display | 12 Control wheel |
| 2 Clamping screws | 6 Protection tray | 9 Clamping lever | 13 Feed panel |
| 3 Knife holder | 7 X/Y adjustment screws for object orientation | 10 Section waste tray | 14 Cover |
| 4 Mounting for blade holder | | 11 Mains power connection | |

Benefits

Horizontal and vertical cross-roller bearing system

The stable knife sliding action has unrivalled smoothness, due to the horizontal cross-roller bearing. This results in less fatigue during daily use. The vertical object movement uses a cross-roller bearing system, is free from backlash and avoids vibration.

Infeed

The object movement, trimming function and retraction are controlled by a low-noise stepping motor. Coarse and fine feed are controlled and adjusted by an integrated key pad in the front lateral working section of the microtome. This allows a safe and easy approach to position the object to the blade.

Memory function

In addition to a memory function and a step counter, fixed reference points in the upper and lower cutting section make the positioning of the specimen easier.

Finger guard

An integrated finger guard provides the required protection in the area of the knife/blade.

Easy to clean and maintain

The microtome has an easy-to-clean anodised surface, within which the micrometer mechanism is fully protected in the enclosed housing. The integrated protection tray prevents contamination of the most important controls.

Details

- ▶ Backlash- and maintenance-free horizontal and vertical cross-roller bearing systems
- ▶ Sliding knife action unrivalled in smoothness and stability
- ▶ Stable and distortion free housing
- ▶ Enclosed micrometer mechanism
- ▶ Quick change system for universal cassette clamp and standard object clamp
- ▶ Rotating knife holder with modern eccentric clamp
- ▶ Simple clearance adjustment eliminating the need to loosen the knife holder clamping system
- ▶ Object orientation system: X/Y axes
- ▶ Integrated protection tray
- ▶ Section waste tray
- ▶ Finger guard
- ▶ Modular system with ergonomic design
- ▶ Anodised surface, easy to clean

Detailed View



- Task Menu:
- 1 Reset Button
 - 2 Memo Button
 - 3 Menu Button



- 1 Control wheel
- 2 Feed panel
- 3 Switchover button

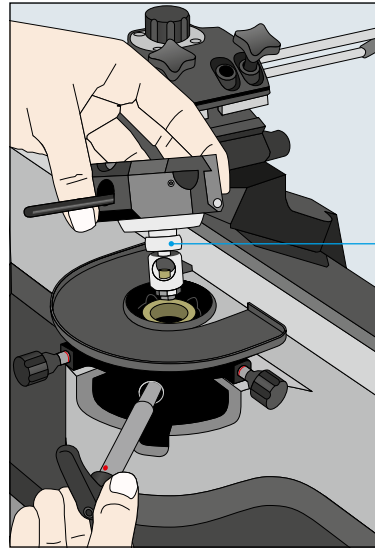
Technical Data

- ▶ **Section thickness range:** 0 - 100 µm
 - ▶ **Resolution:** 0 - 20 µm in 1 µm steps / 20 - 50 µm in 5 µm steps / 50 - 100 µm in 10 µm steps
- ▶ **Retraction:** 0 - 50 µm
 - ▶ **Resolution:** 0 - 50 µm in 5 µm steps
- ▶ **Trimming mode:** 10 - 500 µm
 - ▶ **Resolution:** 0 - 100 µm in 10 µm steps / 100 - 200 µm in 20 µm steps / 200 - 500 µm in 50 µm steps
- ▶ **Sliding movement:** manually
- ▶ **Setting:** electronically via stepping motor; automatically via sliding action; manually via feed button
- ▶ **Knife slide lock:** three positions
- ▶ **Memory function:** via memory button
- ▶ **Section counter:** LCD display
- ▶ **Dimensions (W/D/H):** 320 × 420 × 270 mm
- ▶ **Horizontal range:** 180 mm
- ▶ **Vertical range:** 30 mm
- ▶ **Weight:** 21 kg
- ▶ **Instrument fuse, primary circuit:** T 1.6 AH
- ▶ **Power supply:** 100 - 240 V; 0.9 VA; 50 - 60 Hz +/- 10 %

Mounting

Fitting/removing the object clamp, orientable

To change the object clamp, loosen the clamping lever and remove it from the guide bore. Both adjusting screws have to be turned to the red marks. After that, the entire object clamp together with the adapter can be removed upwards. For fitting the object clamp, reverse the above procedure. Take care with the correct positioning of the guide bore in the adapter to allow reinsertion of the clamping lever.



Adapter orientable

Quick change system for universal cassette clamp and standard object clamp

Ordering Information

pfm Slide 4003 E

› with universal cassette clamp, orientable

REF 040001

- Including**
- › Knife holder with integrated finger guard
 - › Removable protection tray at object holder
 - › Universal cassette clamp, orientable
 - › Without section waste tray

pfm Slide 4003 E

› with standard object clamp, orientable

REF 040002

- Including**
- › Knife holder with integrated finger guard
 - › Removable protection tray at object holder
 - › Standard object clamp, orientable
 - › Without section waste tray

Ordering Accessories



Universal cassette clamp

REF 010003

- › Non-orientable version for direct adaptation
- › 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

- › Non-orientable version for direct adaptation
- › Maximum specimen size: 40 x 45 mm



Standard object clamp, orientable

REF 010044

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

Ordering Accessories



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



Knife holder

REF 013002

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



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 orientable

REF 013016

- ▶ The orientable adapter is suitable for the pfm Slide 2003/4003 E and the pfm Rotary 3002/3003.
- ▶ For object orientation



Adapter 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

REF 040003

- ▶ Material: anodised aluminium
- ▶ Easy to clean



Protection tray

REF 013005

- ▶ Material: anodised aluminium
- ▶ With sealing ring
- ▶ Easy to clean



Finger guard

REF 010007

- ▶ With magnetic mounting

Contact

Should you have any questions our Customer Service & Sales Support team is happy to advise you.

service@pfmmmedical.com

T +49 (0)2236 9641-0

F +49 (0)2236 9641-51

www.pfmmmedical.com - Your information source for the products of pfm medical ag

pfmmedical

pfm medical ag
Wankelstraße 60
50996 Köln, Germany

Certified by
DIN EN ISO 13485