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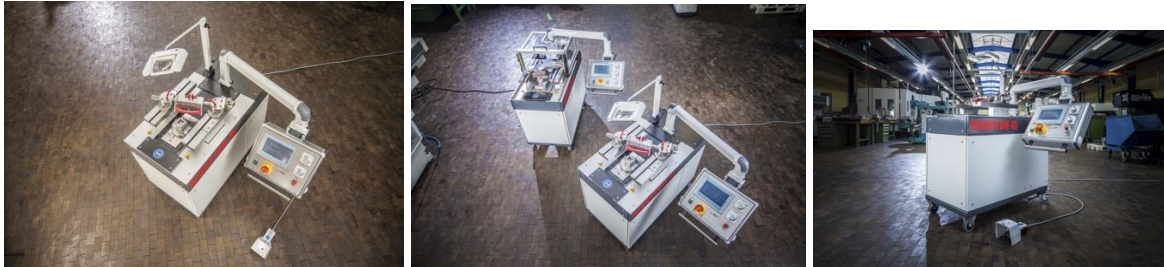
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## Heavy Sledge Microtome-XL



Our Large-Sledge-Microtomes are high-performance sliding microtomes for biomedical and industrial applications. The microtomes are fully automated and feature a control panel with electronic hand wheels and a touch screen allowing settings to be applied quickly and simply. High stability is guaranteed through their solid structure, while heavy-duty rollers enable easy handling. By means of precise knife feed and sample alignment as well as a freely adjustable clearance and declination angle, they enable high-precision sectioning for any application. The construction is designed to be user-friendly and low-maintenance.

### SECTIONS / KNIVES / FEED

- Section thickness ranging from 1 to 1,000  $\mu\text{m}$ , adjustable in 1  $\mu\text{m}$  intervals
- Sectioning speed ranging from 1 to 125 mm/s, continuously adjustable
- Vertical knife stroke distance: 70 mm
- Knife retraction: freely adjustable from 100 – 2000  $\mu\text{m}$
- Knife clearance angle adjustment freely configurable from 0° to -25°
- Knife declination freely configurable in both ways from 90° to 135°

- Freely configurable collision protection level
- Trimming function for fast trimming of samples with free configurable trim values
- Individual sectioning window with freely programmable front and rear starting and finishing points
- Manual knife movement via touchscreen or electronic handwheel
- Possible direct knife clamping without knife holder

#### **DIMENSION / WEIGHT**

- Dimension Mikrotom-XL: 1175 x 650 x 950 mm
- Dimension control panel: 400 x 470 x 150 mm plus telescopic arm
- Working height (without clamping device): 950 mm
- Required installation space: 1,600 x 1,400 mm
- Total weight: 550 kg

#### **STANDARD FEATURES**

- Illuminated large-field magnifier (162 x 105 mm) with 3 diopters and 2 lighting levels (220 V P20)
- Footswitch with start and emergency stop function
- Control Panel with 9-inch Siemens touchscreen, two electronic handwheels and potentiometer, can be positioned to the left or right of the device
- Control unit can be supplied in any language (multi-lingual)

#### **OBJECT / SAMPLE**

- Maximum sample size (incl. clamping device): 260 x 200 x 70 mm
- Sample orientation: rotatable 360° and inclinable  $\pm 5^\circ$  on the x-/y-axis
- Reversing speed ranging from 1 to 125 mm/s, adjustable in 1-mm/s-intervals
- Manual moving of samples using an electronic hand wheel (sectioning speed can be adjusted using an incremental encoder/potentiometer)
- Mounting of the sample clamping device via magnet or T-shaped grooved plate
- Clamping devices fast and easy changeable through adaption

- Clamping devices available in different sizes and shapes (custom products possible)

## CONTROL / DRIVE UNITS / PORTS

- Rated voltage: 400 V, 16 A
- Rated current: 6.3 A
- Rated frequency: 50 Hz
- Power input: 1.5 kW
- Total power consumption: max. 1,500 VA
- Fuse: 16 A
- A separate drive unit for knife and object movement
- Three sectioning functions: button activated, single and continuous
- Intuitive operation via touchscreen, electronic handwheels and potentiometer
- Potentiometer for infinitely variable control of sectioning speed, even during sectioning process
- Footswitch with start and emergency stop function
- Automatic emergency stop at point of collision
- Two 220 V power sockets for additional devices

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