

CUTTING MACHINES



CUTLAM® micro 3.0



The CUTLAM® micro 3.0 is a bench-top cut-off machine for laboratories looking for an automatic machine for long, high-precision cuts, offering high capacity in a compact package. Thanks to the many ways in which the disc and table can be moved, even the most complex jobs are possible.

Large capacity compact cutting machine

It is fitted with a large: 320 x 540 mm chamber, and equipped with a grooved aluminium table, sized 210 x 210 mm, and stainless steel interchangeable pallets.

The large capacity of the CUTLAM® micro 3.0 relies on the use of 200 mm cut-off wheel, combined with a vertical movement range of 100 mm (Z axis) and a longitudinal range of 270 mm (Y axis).

Precision

Axis positioning accuracy is 0.01 mm, which can be viewed on screen. Feed speeds during the cutting phase are adjustable from 0.1 to 20 mm/sec. Use of the intelligent feed management system (see next page for an explanation of this device) will automatically reduce the axis feed rate to a minimum value of 0.02 mm/sec.

Always in control

A large touchscreen with a graphical user interface makes it easy to get to grips with the machine intuitively. All positioning and cutting parameters are continuously visible on the screen. A joystick is used to quickly position the cutting point. In automatic and semi-automatic mode, an estimated cutting time is displayed.

2 cutting modes are available: manual and automatic.



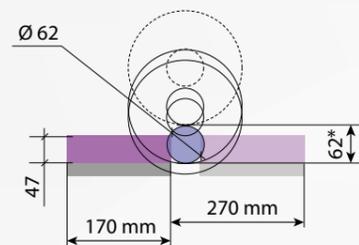
*optional 3rd (X)



300 programs can be stored in the built-in memory, including: start position, feed speed, rotational speed, cutting mode.

Theoretical cutting capacity - Ø 200 mm disc

*space under wheel



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Efficiency: 5 key points for higher productivity

1. Powerful motor of 1,1 kW.
2. Sequential cutting mode for a maximum cooling.
3. Ingenious feed speed control:
 - The feed speed is pre-set, and will be automatically reduced if the load on the cutting wheel increases. The pre-set speed returns when the load on the wheel decreases.
 - It improves the quality of the cut by limiting the heat damages on the samples.
 - Suitable for irregular samples and/or materials with heterogeneous hardness.
 - It prevents the wheel from breaking in case of overload.
 - It allows you to always work at maximum speed without any risk of damage.
4. Optional cross-feed table (X axis) manual or motorised for repetitive parallel cuts.
5. Independent lubrication/cooling system, composed of a 100 µ washable filter, and a 30 litres sedimentation tank with multi-point nozzle, insures excellent cooling of the sample and the cutting wheel even during intensive use.

Options

Manual cross-feed table (X axis) to cut parallel sections stroke 55 mm accurate to 0,01 mm	60 CTM31 00
Motorised cross feed table (X axis) to cut parallel sections stroke 50 mm, accurate to 0,01 mm	60 CTM34 00
Positioning laser	60 CTM35 00

Technical Data	CUTLAM® micro 3.0
Wheel Ø	75 to 200 mm
Shaft Ø	12,7 mm
Standard flanges Ø	75 mm
Passage under the wheel	62 mm (with a Ø 200 mm disc)
Max cutting capacity	Ø 62 mm (with a Ø 200 mm disc)
Vertical movement	Z axis 100 mm automatic
Longitudinal movement	Y axis 270 mm automatic
Transversal movement	X axis 55 mm manual or 50 mm motorised (optional)
Cooling/ Lubrication	Decantation tank, 2 chambers, Input 100 µm filter, Pump 800 L/hour driven by the machine.
Motor power	1,1 kW
Rotational speed	Variable, from 1000 to 4000 rpm.
Cutting modes	Manual, semi-automatic, automatic
Feed speed control	0.1 to 10 mm/sec. programmable automatic continuous or sequenced feed/torque control. 0.1 to 20 mm/sec. in manual mode.
Lightening	LED
Protection	Transparent cover with locking system
Voltage	230 V - 50 Hz simple phase
Dim. W x H x D	620 x 470 x 750 mm (H cover open 812 mm)
Weight	80 kg
Reference	60 CTM30 00

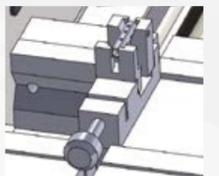


Tool for axial cutting of Ø 4 mm parts

This device, used in conjunction with quick release clamps, enables manual positioning following the X axis, ensuring cutting precision and repeatability.

NEW

60 CTM03 93



60 CTM35 00



60 CTM31 00



60 CTM34 00



60 CTM01 10/20/30



60 CT200 40



60 CTM36 00



60 CTM32 00



60 CTM33 00



60 M0100 00

Accessories

Set of flanges Ø 35 mm for cut-off wheels Ø 75 to 100 mm	60 CTM01 10
Set of flanges Ø 50 mm for cut-off wheels Ø 125 to 150 mm	60 CTM01 20
Set of flanges Ø 75 mm for cut-off wheels until Ø 230 mm	60 CTM01 30
Independent double vice (right and left) screw tightening	60 CT200 40
Right vice with fast tightening, small model	60 CTM32 00
Left vice with fast tightening, small model	60 CTM33 00
Universal clamping Kopal 54	60 CTM36 00
Cabinet: 1 drawer, 1 storage in the door + integration of the recirculation tank	60 M0100 00