TSI System
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Faced with the constant evolution of the materials and the quality standards, LAM PLAN is a reference partner for the preparation of the samples for the metallographic analysis.

Our technical solutions and our customised methods will ensure you reliable and reproducible results.
We are fully committed to the quality of the samples.

CUTTING MACHINES

CUTLAM®micro 2.0

MADE IN FRANCE

The CUTLAM®micro 2.0 is a compact laboratory micro-cutting machine intended for the most sensitive materials. The speed range and cutting chamber capacity make this machine incredibly versatile.

The sample is held in position using a vice-tightened holding arm and the wheel located outside the cutting chamber enables a micrometric movement along the Z axis; the movement can be tracked directly on the screen (accurate to 0,02 mm) Thanks to the zeroing system, very accurate parallel cuts can be performed.

A wide range of vices is available, enabling you to clamp any type of component or material. The cutting progress is either controlled manually or with a counterweight system specially adapted to delicate cuts. A rocker arm balances the implement weight, and another one permits to adjust the applied load with precision.

Fitted with a large-capacity (10 litres, large for the machine's size), independent filtration/decanting/recirculation tank, it is easy to perform long cuts under ideal cooling conditions. The CUTLAM®micro 2.0 has been designed to simplify maintenance and cleaning operations, the base of the cutting chamber is equipped with an inlet filter to prevent the loss of small parts and components. A 100 µm fabric filter at the decanter inlet filters out the largest particles, and the remainder of the filtration is accomplished by decanting into a compartmented tank.

Built upon a robust, mechanically welded chassis sheathed with a painted sheet-steel body, the CUTLAM®micro 2.0 is particularly stable and is not prone to vibration, saving you valuable laboratory work space.

Technical data	CUTLAM®micro 2.0
Wheel Ø	75 to 200 mm
Shaft Ø	12,7 mm
Standard flanges Ø	50 mm
Lateral arm displacement	Stroke 80 mm (accuracy 0,02 mm)
Preload weight	2 x 200 g
Vertical movement	Manual
Motor power	0,6 kW
Rotational speed	Variable, from 200 to 4000 rpm
Protection	Transparent cover with locking system
Touch screen 3,5"	Intuitive and graphic interface
Voltage	230 V - 50 Hz single phase
Dim. W x H x D	430 x 300 x 450 mm (H cover open: 644 mm)
Weight	40 kg
Reference	60 CTM20 00

CUTLAM®micro 2.0

Laboratory precision micro cutting machine

Included Equipment

Recirculation system, 10 litres, 2 compartment decantation tank, 100 µ fabric filter, recirculation pumps 800 L/hour driven by the machine	
Cylindrical sample holder with clamping screw: Ø 12 to 50 mm	
Set of flanges: Ø 50 mm for cut-off wheel: Ø 125 to 150 mm	

Options

Slow speed 50 to 1000 rpm	60 CTM 20 20
Vacuum system for holding thin sections	60 CTM 03 80

Accessories

Set of flanges Ø 35 mm for cut-off wheels Ø 75 to 100 mm	60 CTM01 10
Set of flanges Ø 75 mm cut-off wheels until Ø 200 mm	60 CTM01 30
Sample holder with multi screw clamping for irregular parts	60 CTM03 50
Sample holder double vice with clamping screw: Ø 12 mm max	60 CTM03 30
V sample holder with clamping screw: Ø 24 mm maxi	60 CTM03 20
Sample holder double vice with clamping screw: Ø 12 mm max	60 CTM03 40
Cylindrical sample holder with clamping screw: Ø 12 mm to 50 mm	60 CTM03 10
Small vice with clamping screw: Ø 12 mm	60 CTM02 10
Medium vice with clamping screw: Ø 24 mm	60 CTM021 10