

MECATOME T210

PRECISION AUTOMATIC MICRO-CUTTING MACHINE

Ref. 51400

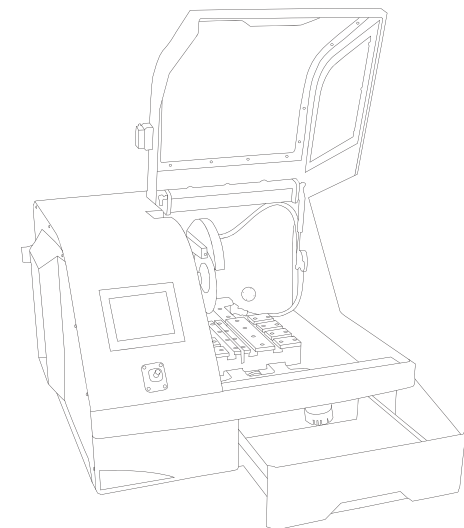
A powerful and precise micro-machine designed for sectioning medium sized samples from a wide variety of materials of differing hardness, from the hardest to the softest.

The optional X axis drive gives the possibility of carrying out multiple series sections.

There are three modes of cutting:

- Assisted: a manual cut can be made using the joystick to pilot the table (effortless for the operator)
- Automatic: an automatic cut can be made by selecting both the disc rotation speed and the advance speed of the table. Possibility of an impulse cutting mode.
- Programmable: an automatic cut can be made using pre-selected parameters.

The grooved table (with interchangeable stainless steel pallets) is compatible with most readily available clamping systems.



CE

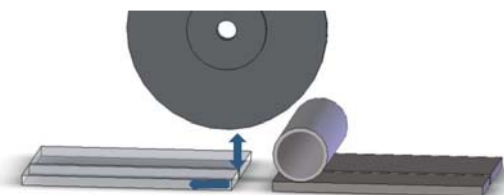
505mm
(closed lid)

753mm

758mm

90kg

CUTTING ENVELOPE*



Ø 55mm

40mm

55 x 190mm

0 - 251mm

* This illustration of the cutting envelope is to show the maximum theoretical capacity only. The actual capacity may be increased, depending on sample material, cutting frequency and selected flanges.

CHARACTERISTICS

HOOD	
Type	PETG enclosure with metal hinges
Safety	Interlock switch keeps hood locked during cutting
MOTORIZATION - POWER SUPPLY	
Nominal power S1	1500W
Nominal power S3	2700W
Power supply	220V / Single phase / 50Hz
Control of the motor	Frequency inverter
CUT-OFF WHEELS	
Type of cut-off wheels	Resin bonded and metal bonded
Cut-off wheel size range	From Ø 75 to Ø 203mm
Rotation speed	From 300 to 6.000 RPM
Arbor size	12.7mm
CONTROL	
Control Interface	Color touch control screen
Security Access	Can activate password protection
Programmability	Up to 100 programs protected by password
CUTTING	
Cutting modes	Assisted, automatic, programmed, pulse mode
Type of table movement	Motorised Y axis motion
Y axis speed	From 0.01 to 3mm/s
Cutting control	Automated regulation optimised to the motor ratings
Y axis range	251mm Y-axis movement of the table
X axis range	Optional 100mm X-axis movement of the table
Z axis range	60mm
Serial sectioning	Option (motorised X table)
Dimensions of the tables	Left table: 82 x 210mm-Right table: 142 x 210mm
Positioning laser	Option
Fume extraction port	Option
Space under cut-off wheel	40mm (with cut off wheel Ø 200mm)
Type of table	Treated aluminum table with exchangeable stainless blocks
Holders	Sample carrier arm will accept a wide variety of holders
LUBRICATION - COOLING	
Pump & tank	Integrated - Capacity 10L Option: 25L external pump and tank - Ref. 51440
Type of lubrication	Internal recirculating pump or optional external recirculating
Method of directing pumped coolant	6 nozzles in the blade guard
Type of filtration	Integrated: filtration grid - External: 100µm washable filter cloth
ERGONOMICS	
Internal lighting	LED
Spray nozzle for cleaning	Integrated

See MECATOME T210 video link



ACCESSORIES

STAINLESS STEEL VICES AND HOLDERS



Quick clamping vice right side
Height 32mm
Opening 50mm
Ref. 51319



Quick clamping vice left side
Height 32mm
Opening 50mm
Ref. 51321



Mini screw vice
Ref. 51722



Quick clamping vice for long sample
Height 45mm
Opening 150mm
Ref. 51356



Box of Kopal holders
Ref. 50613



Kopal holding
Ref. 50616

SAMPLE CHUCKS



V Shaped sample chuck
Ref. 51715



Vice chuck for longitudinal cuts
Ref. 51717



Vice chuck for longitudinal cuts (length 53mm)
Ref. 51718



Chuck for small samples (vice type).
30mm max
40mm on request
Ref. 51713



Orientable chuck
Ref. 51156



Chuck for cylindrical sample
Ref. 51714



Irregular shaped sample chuck
Ref. 51716



Set of 5 aluminium plates for sample sticking (to be use with orientable chuck 51156)
60 x 25mm - Ref. 51162
40 x 25mm - Ref. 51163



Sample chucks (to use only with a motorized transversal table)
Ref. 51410

OTHER ACCESSORIES



Base Cabinet (vice type).
Width 770mm
x depth 880mm
x height 855mm
Ref. 51006

Outlet for Ø76mm extractor (custom manufacturing - only on new machine order)
Ref. 51450

FLANGES



Set of stainless steel flanges Ø 75mm for wheels Ø 150 to 200mm
Ref. 51325

Set of stainless steel flanges Ø 50mm for wheels Ø 100 to 150mm
Ref. 51326

Set of stainless steel flanges Ø 35mm for wheels Ø 75 to 100mm
Ref. 51327

TABLES & POSITIONING



Motorised traversing table. Right side movement
Ref. 51420



Manual traversing additional table. Right side movement
Ref. 51355



Rotating vice
Ref. 51323

Positioning laser
Ref. 51431