MECATOME T205



PRESI

CUTTING | MECATOME T205 Ref. 51760

MECATOME T205

MANUAL MICRO-CUTTING MACHINE

The MECATOME T205 is a manual precision micro-cutting machine characterized by its robustness and compact design. With a large working space, it allows for cuts with the highest precision and to work on a wide range of materials, from the softest to the hardest. Its powerful motor makes it possible to work at high and constant torque over the entire speed range from 100 to 4000 RPM.

Robustness

- Mechanically welded steel cover and PETG protective glass
- Epoxy paint

Two available cutting modes

- Manual
- By gravity (weight, counterweight)



Color touchscreen

- LCD color display 4.3'' TFT, 16/9
- User-friendly interface
- Easy to use
- Micrometric display of the lateral displacement of the arm
- Backup for 3 programs
- Protection by access code
- Calculation of anti-rust concentration adjustment

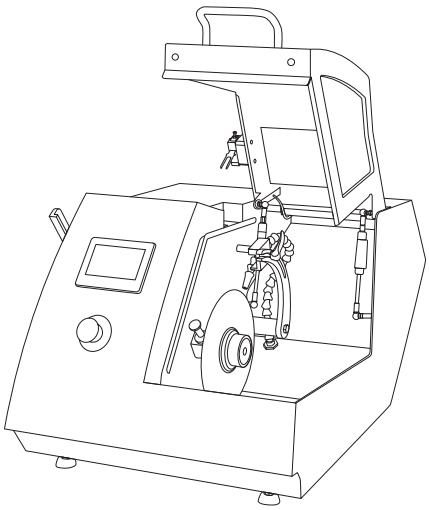




Safety

- Emergency stop button: convenient and quick access to immediately stop the cutting disc
- Braked stopping of the grinding wheel
- Mechanical locking of the hood during operation
- Zero speed check before unlocking
- Emergency stop button
- EC Marking

MECATOME T205



440mm closed lid
770mm open lid

580mm

660mm

55kg

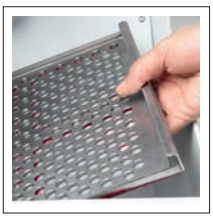
Working comfort

- Blocking of the shaft for wheel change
- Tool-less cut-off wheel change (option)
- X-axis travel: 100mm
- Light integrated into the hood
  - Anti-glare
  - Optimal lighting of the working area
- Guided evacuation system for residual drops

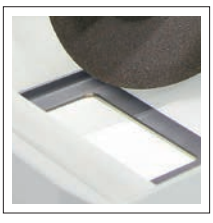
Lubrication close to the cut area

- By pump
- Built-in 3.5L capacity tank

Recovery - Filtration



Metal grid



100µm washable stretch fabric filte

SPECIFICATIONS MECATOME T205

HOOD	
Type	Metal Frame & PETG
Safety	Mechanical locking of the hood during cutting Braked stopping of the cut-off wheel Zero speed check before unlocking the hood

MOTORISATION - POWER SUPPLY	
Power	960W
Motor	Brushless, controlled by regulation board
Power supply	110-230V - Single phase - 50/60Hz

CUT-OFF WHEEL	
Kind of the cut-off wheel	Resinoid & Metallic
Size of the cut-off wheel	from Ø75 to Ø200mm
Rotation speed	from 100 to 4000 RPM
Arbor size	12,7mm

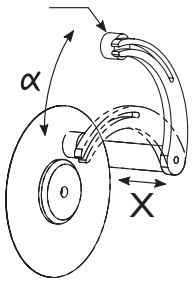
CONTROL	
Control interface	4.3" TFT color touch screen, 16/9
Security access	Can be activated
Programmability	Up to 3 programs

CUTTING	
Operating mode	Manual or by gravity (weight / counterweight)
X axis travel	Lateral movement of the arm - Travel distance 100mm
Holders	Sample holders fixed on arm

LUBRICATION - COOLING	
Type of lubrication	By pump, flow rate 45L/min
Recirculation tank	Integrated - Capacity 3.5L
Type of filtration	100µm fabric filter stretched over a metal frame
Method of directing pumped coolant	1 adjustable lubrication point

ERGONOMICS	
Internal lighting	LED lighting integrated into the hood (IP 68)
Spray nozzle for cleaning	Quick connector, linked to main lubrication point
Cutting disc change	Shaft lock for wheel change Ôption : Tool-less cut-off wheel changing system
No-load sound level	< 70 dB

CUTTING ENVELOPE*



Ⓧ = 0 - 100mm
◯ = Ø 40mm
Ⓐ = 0 - 50°

* 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.

OPTION



QUICK - RELEASE NUT
Tool-less cut-off wheel change Ref.51725

ACCESSORIES

SAMPLE HOLDERS



V shaped sample chuck
Ref. 51715



Orientable chuck (to be used with aluminium plates Ref. 51162 and 51163)
Réf. 51156



Vice chuck for longitudinal cuts
Ref. 51717



Chuck for small samples (vice type)
Ref. 51713



Chuck for cylindrical sample
Ref. 51714



Irregular shaped sample chuck
Ref. 51716



Set of 5 Aluminium plates for samples sticking
60 x 25mm - Ref. 51162
40 x 25mm - Ref. 51163

VICES



Mini screw vice
Ref. 51722



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

FLANGES



Set of 2 flanges ø 35mm for wheel ø 75 to 100mm
Ref. 51710



Set of 2 flanges ø 50mm for wheel ø 100 to 150mm
Ref. 51711



Set of 2 flanges ø 75mm for wheel ø 150 to 200mm
Ref. 51712

OTHER ACCESSORIE



Analog refractometer BRIX 0-10
Measure the concentration of the anti-rust coolant - Ref. 19074

CONSUMABLES

RESINOID CUT-OFF WHEELS

	REF.	ABRASIVE	Ø
		Ferrous materials	
AO	01046	Al_2O_3	Ø 125 x 0,5 x 12,7mm
AO	01043	Al_2O_3	Ø 150 x 0,5 x 12,7mm
AO	01002	Al_2O_3	Ø 200 x 1,6 x 25,4mm*
A	01040	Al_2O_3	Ø 100 x 0,3 x 12,7mm
AOFII	01001	Al_2O_3	Ø 200 x 0,8 x 25,4mm*
		Non-ferrous materials	
MNF	01005	SiC	Ø 200 x 1,6 x 25,4mm*
C	01041	SiC	Ø 100 x 0,3 x 12,7mm
		Ferrous & non-ferrous materials	
UTW	01100	SiC	Ø 180 x 0,5 x 25,4mm*
UTW	01101	SiC	Ø 200 x 0,5 x 25,4mm*
S	01060	SiC	Ø 180 x 0,5 x 25,4mm*

* to be used with reduction rings ref. 51324

METALLIC CUT-OFF WHEELS

	REF.	Ø
	Hard ferrous materials	
CBN	02059	Ø 75 x 0,5 x 12,7mm
CBN	02062	Ø 100 x 0,5 x 12,7mm
CBN	02050	Ø 125 x 0,5 x 12,7mm
CBN	02065	Ø 150 x 0,6 x 12,7mm
CBN	02056	Ø 175 x 0,7 x 12,7mm
CBN	02039	Ø 200 x 0,9 x 32mm*

* to be used with reduction rings ref. 51331

REDUCTION RINGS*

REF.	DESIGNATION	Ø
	Pack of 5	
51324	Reduction ring aluminium	25,4 / 12,7mm
51331	Reduction ring aluminium	32 / 12,7mm
51332	Reduction ring aluminium	25,4 / 12,7mm

* Other diameters on request.

METALLIC CUT-OFF WHEELS

	REF.	Ø
	Ceramic & non-ferrous materials	
DIAMOND LR	02058	Ø 75 x 0,5 x 12,7mm
DIAMOND LR	02033	Ø 100 x 0,5 x 12,7mm
DIAMOND LR	02035	Ø 125 x 0,5 x 12,7mm
DIAMOND LR	02037	Ø 150 x 0,6 x 12,7mm
DIAMOND LR	02067	Ø 175 x 0,7 x 12,7mm
DIAMOND LR	02041	Ø 200 x 0,9 x 32mm*
DIAMOND LM	02030	Ø 75 x 0,3 x 12,7mm
DIAMOND LM	02031	Ø 100 x 0,3 x 12,7mm
DIAMOND LM	02034	Ø 125 x 0,5 x 12,7mm
DIAMOND LM	02036	Ø 150 x 0,6 x 12,7mm
DIAMOND LM	02055	Ø 175 x 0,7 x 12,7mm
DIAMOND LM	02038	Ø 200 x 0,9 x 32mm*
DIAMOND LM+	02057	Ø 75 x 0,3 x 12,7mm
DIAMOND LM+	02060	Ø 100 x 0,3 x 12,7mm
DIAMOND LM+	02063	Ø 125 x 0,5 x 12,7mm
DIAMOND LM+	02064	Ø 150 x 0,6 x 12,7mm
DIAMOND LM+	02066	Ø 175 x 0,7 x 12,7mm
DIAMOND LM+	02040	Ø 200 x 0,9 x 32mm*
	Composit & plastic materials	
DIAMOND ELD	02100	Ø 100 x 1,4 x 12,7mm
DIAMOND ELD	02101	Ø 125 x 1,4 x 12,7mm
DIAMOND ELD	02102	Ø 150 x 1,4 x 12,7mm
DIAMOND ELD	02103	Ø 175 x 1,4 x 12,7mm
DIAMOND ELD	02104	Ø 200 x 1,4 x 12,7mm

* to be used with reduction rings ref. 51331

ANTIRUST COOLANT

REF.	DESIGNATION
01025	1L bottle
01090	5L drum
01026	10L drum

ANTIFOAM AGENT

REF.	DESIGNATION
01094	1L bottle
01095	5L drum
01096	10L drum

ANTISEPTIC LIQUID

REF.	DESIGNATION
01093	500CC bottle
01097	1L bottle
01098	5L drum

ginette by atlanticlafab. 04/22 - Photos credits: Franck Ardito - DR