MECATOME T345

PRESI

CUTTING | MECATOME T345
Ref. 50390

MECATOME T345

POWERFUL AUTOMATIC CUTTING MACHINE

Powerful and precise, the MECATOME T345 is an automatic cutting machine. Its rotation speeds ranging from 1000 to 6000 RPM allow the use of metallic discs as well as resinoids. Its three programmable motorized axes make it a machine that adapts to all situations. The MECATOME T345 offers numerous cutting modes that allow to optimize the cutting of the most complex parts.

Robustness

- Mechanically welded steel cover and PETG protective glass
- Stainless steel cutting chamber
- Epoxy paint

Intuitive control

- Programmable color touch screen
- Visualization of motor load
- Calculation of anti-rust concentration adjustment
- 3-axis joystick with 2 programmable control buttons

Stability

- Adjustable, anti-vibration feet

55L filtration tank

- Double filtration system: mechanical & magnetic (optional)

Working comfort & power

- Blocking of the shaft for wheel change
- Tool-less cut-off wheel change
- Motorized Y & Z cutting axes
- Motorization of the positioning axis X (optional)
- Automatic clamping of the cutting arm at all positions
- Clamping table with interchangeable stainless steel pallets
- Light integrated into the hood:
  - Anti-glare
  - Optimal lighting of the working area
- Guided evacuation system for residual drops
- Cleaning gun and guided evacuation system for cutting residues by flow of lubricant

Lubrication close to the cut area

- Wheel guard including 2 lubrication points
- 2 adjustable lubrication points

Safety

- Two-hand control
- Braked stopping of the cut-off wheel
- Mechanical locking of the hood during operation
- Zero speed control before unlocking
- Emergency stop button
- CE marking

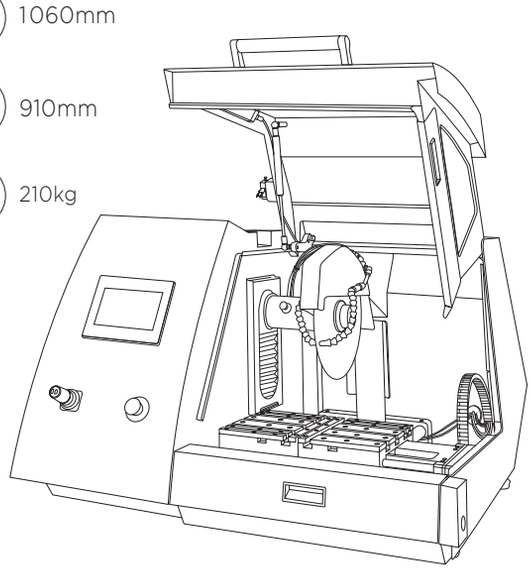
MECATOME T345

680mm closed lid
1180mm open lid

1060mm

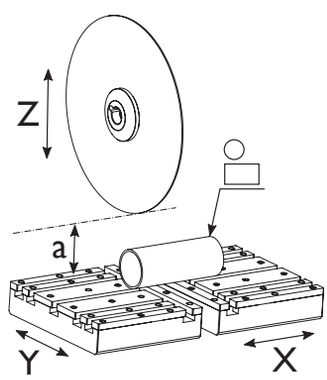
910mm

210kg



CUTTING ENVELOPE*

Ⓩ = 150mm
Ⓨ = 240mm
Ⓧ = Option: 100mm
ⓐ = 90 mm (cut-off wheel Ø300mm)
◯ = Ø105mm
▭ = 105 x 145mm



* 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.

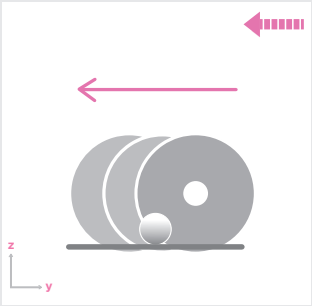
CUTTING METHODS

Driven in assisted mode or different programmable automatic modes, the MECATOME T345 is suitable for developing cutting methods as well as for use according to pre-established protocols. With an optional motorized X-axis table, the MECATOME T345 allows you to position the parts precisely and to achieve serial cuts. The two cutting axes can be driven separately or combined, depending on the need.

ASSISTED MODE

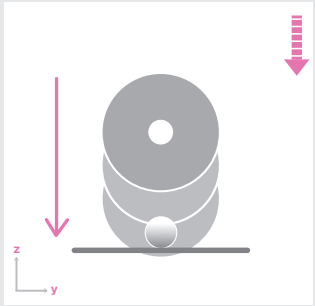
In this mode, the user directly controls the table feed using the joystick and defines the maximum speed and the regulation if necessary. This is an efortless manual cut.

PULSE MODE Y



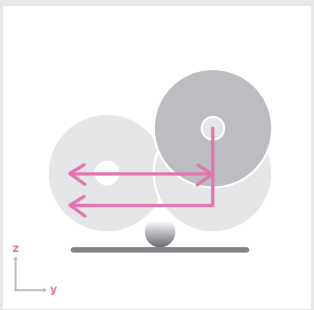
Cutting mode where the wheel advances intermittently along the Y axis. Dedicated to difficult materials or massive parts, this mode allows gradual release of the constraints and limits temperature peaks.

PULSE MODE Z



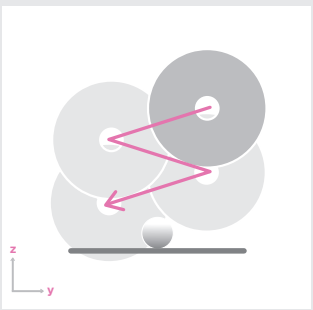
Cutting mode where the wheel advances intermittently along the Z axis. Dedicated to difficult materials, this mode allows gradual release of the constraints and limits temperature peaks.

COMBINED MODE



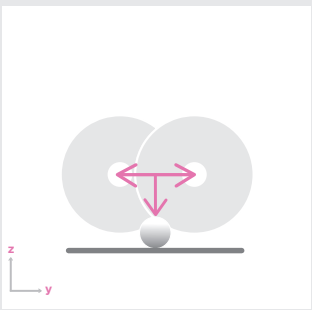
Cutting mode allowing a Z then Y cut, regulated or not. This mode increases the cutting capacity of the machine. The MULTI-COMBINED work mode allows the cut to be broken down into several stages along the Z axis. This mode is particularly dedicated to thick parts.

PROGRESSIVE COMBINED MODE



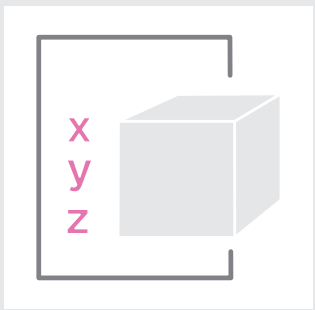
Cutting mode allowing a progression of the cut both along the Z axis and the Y axis, regulated or not. This mode optimizes the cutting time.

OSCILLATING MODE



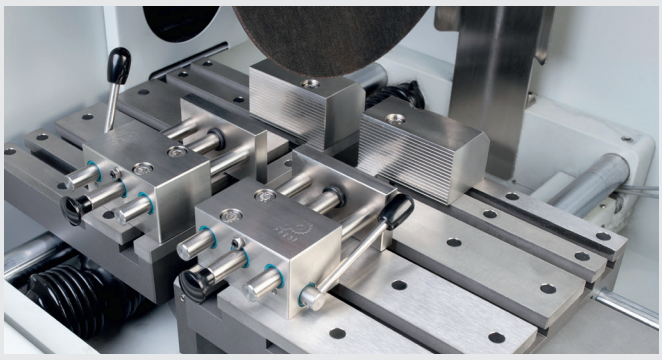
Z cutting mode, oscillating along the Y axis regulated or not. This mode is particularly dedicated to difficult to cut materials, lubrication of the cutting area is greatly improved.

EXPERT MODE



Operating mode that transformes your machine into a numerical control center, dedicated to cutting. This mode is compatible with the program mode.

OPTIONS



TRANSVERSAL TABLE WITH MOTORIZED MOVEMENT

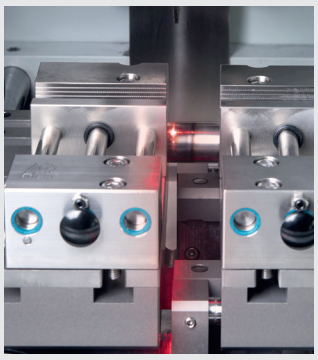
Travel distance 100mm; 1/100th precision

- Position the parts
- Carry out serial cuts

Ref. 50391

MAGNETIC FILTER

For 55L tank - Ref. 50222



POSITIONING LASER

Visualize the cutting line
Ref. 50392

SUCTION & EXTRACTION

Mist extraction with fluid recovery
Ref. 51273

CHARACTERISTICS MECATOME T345

HOOD	
Type	Metal Frame & PETG Stainless steel cutting chamber
Safety	Two-hand control for table positioning, when hood open Mechanical locking of the hood during cutting Braked stopping of the cut-off wheel Zero speed check before unlocking the hood
Fumes extraction	Option: mist extraction with fluid recovery

MOTORISATION - POWER SUPPLY	
Power	3700W
Motor	Asynchronous motor controlled by frequency inverter
Power supply	400V - Three-phase - 50/60Hz

CUT-OFF WHEEL	
Kind of the cut-off wheel	Resinoid & Metallic
Size of the cut-off wheel	Up to Ø300mm
Rotation speed	1000 to 6000 RPM
Arbor size	25,4mm

CONTROL	
Control interface	Touchscreen 3-dimensional joystick with 2 shortcut buttons
Security access	Can be activated
Programmability	Up to 100 programs, password protected

CUTTING	
Operating mode	Assisted, Automatic, Program Mode
Cutting modes	Regulated, Pulse Cutting, Combined, Oscillating
table automation	Y-axis movement
Cutting control	Feeding Regulation
Cutting axis	Motorized Y & Z axes (The X axis being a positioning axis)
Y axis travel	240mm
Y axis speed	from 0,01 to 3mm/s
Z axis travel	150mm
Z axis speed	from 0,01 to 3mm/s
Serial cutting	Option: motorized x-axis table, travel distance 100mm
Table dimensions	Left Table: 192 x 230mm Right Table: 192 x 230mm
Distance between cut-oof wheel and table	77,5mm (with Ø 300mm cut-off wheel)
Positionning laser	Option: Laser Class 1M; Po = 1mW; l = 635nm
Table type	Treated aluminum table, interchangeable stainless steel pallets
Holders	T-slotted table (12mm) accepting all commercial clamping systems

LUBRICATION - COOLING	
Type of lubrication	By pump, flow rate 70L/min
Recirculation tank	External - Capacity 55L
Type of filtration	Washable 100µm cloth filter, optional magnetic filter
Method of directing pumped coolant	2 lubrication points integrated in cut-off wheel guard Two orientable lubrication points

ERGONOMICS	
Internal lighting	LED lighting integrated into the hood (IP 68)
Spray nozzle for cleaning	Integrated
Cutting disc change	Tool-less cut-off wheel changing system
No-load sound level	< 70 dB

ACCESSORIES

STAINLESS STEEL VICES & CLAMPING SYSTEM

Left quick clamping vice 45mm height removable jaw + rear jaw
Ref. 50236

Right quick clamping vice 45mm height removable jaw + rear jaw
Ref. 50235

Kopal clamp
Ref. 50616

Kopal kit
Ref. 50613

TABLES & POSITIONING

Manual transversal table
Ref. 50244

OTHER ACCESSORIES

Kit of v positioning supports
Ref. 50370

Base cabinet for automatic cutting machine (large model)
Ref. 51470

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

CONSUMABLES

RESINOID CUT-OFF WHEELS

	REF.	ABRASIVE	Ø
	Ferrous materials		
S	01016	Al_2O_3	Ø 250 x 1,6 x 32mm
	01022	Al_2O_3	Ø 300 x 2 x 32mm
AO	01014	Al_2O_3	Ø 250 x 1,6 x 32mm
	01020	Al_2O_3	Ø 300 x 2 x 32mm
A	01015	Al_2O_3	Ø 250 x 1,6 x 32mm
	01021	Al_2O_3	Ø 300 x 2 x 32mm
AOF II	01012*	Al_2O_3	Ø 250 x 0,8 x 32mm
	01013	Al_2O_3	Ø 250 x 0,8 x 32mm
	01019	Al_2O_3	Ø 300 x 1 x 32mm
	Non-ferrous materials		
MNF	01017	SiC	Ø 250 x 1,6 x 32mm
	01023	SiC	Ø 300 x 2 x 32mm
T	01071	SiC	Ø 250 x 1,6 x 32mm
	01072	SiC	Ø 300 x 2 x 32mm
F	01018	SiC	Ø 250 x 1,6 x 32mm
	01024	SiC	Ø 300 x 2 x 32mm

* Cut-off wheel "S".

METALLIC CUT-OFF WHEELS

	REF.	Ø
	Hard ferrous materials	
CBN	02043	Ø 250 x 1,2 x 32mm
	02047	Ø 300 x 1,2 x 32mm
	Ceramic & non-ferrous materials	
DIAMOND LR	02045	Ø 250 x 1,2 x 32mm
	02049	Ø 300 x 1,2 x 32mm
DIAMOND LM	02042	Ø 250 x 1,2 x 32mm
	02046	Ø 300 x 1,4 x 32mm
DIAMOND LM+	02044	Ø 250 x 1,2 x 32mm
	02048	Ø 300 x 1,4 x 32mm
	Composit & plastic materials	
DIAMOND ELD	02105	Ø 250 x 1,8 x 25,4mm
	02106	Ø 300 x 1,8 x 25,4mm

REDUCTION RINGS*

REF.	DESIGNATION	Ø
	Pack of 20	
01089	Reduction ring	32/25,4 mm x 2mm
01092	Reduction ring	32/25,4 mm x 3mm

* Other diameters on request.

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