

MECATOME T345



MECATOME T345
Ref. 50390



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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

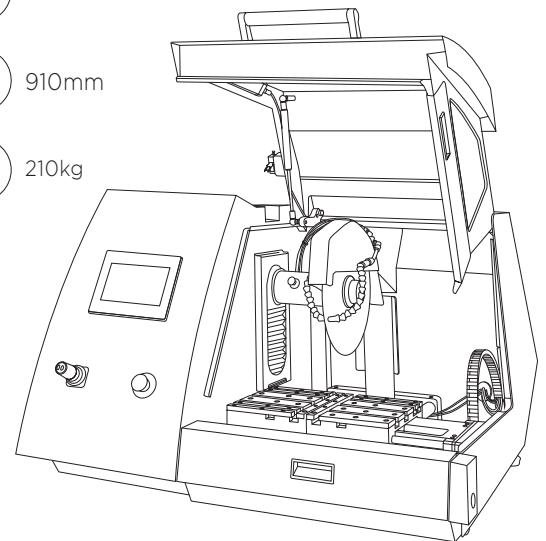
MECATOME T345

680mm closed lid
1180mm open lid

1060mm

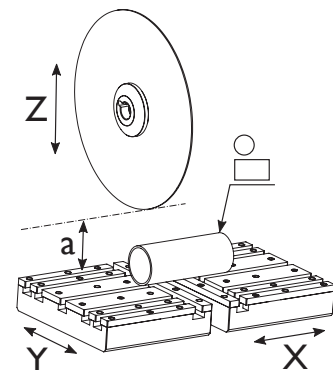
910mm

210kg



CUTTING ENVELOPE*

- ⓪ = 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

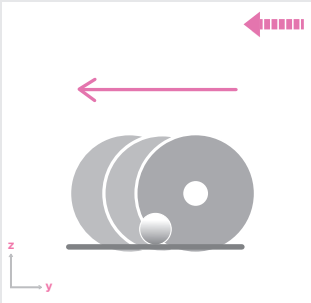
Driven in assisted mode or different programmable automatic modes, the MECATOME T345 is suitable for developing cutting methods as well as for use according to pre-established protocols. With an optional motorized X-axis table, the MECATOME T345 allows you to position the parts precisely and to achieve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

ASSISTED MODE



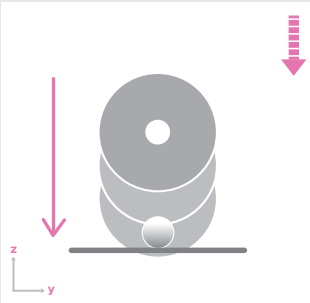
In this mode, the user directly controls the table feed using the joystick and defines the maximum speed and the regulation if necessary. This is an effortless manual cut.

PULSE MODE Y



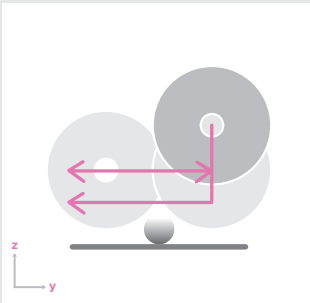
Cutting mode where the wheel advances intermittently along the Y axis. Dedicated to difficult materials or massive parts, this mode allows gradual release of the constraints and limits temperature peaks.

PULSE MODE Z



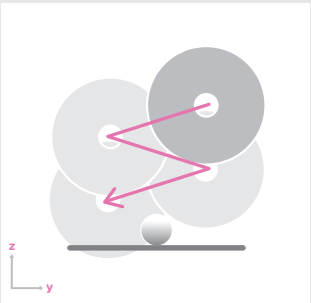
Cutting mode where the wheel advances intermittently along the Z axis. Dedicated to difficult materials, this mode allows gradual release of the constraints and limits temperature peaks.

COMBINED MODE



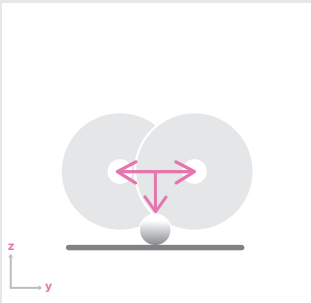
Cutting mode allowing a Z then Y cut, regulated or not. This mode increases the cutting capacity of the machine. The MULTI-COMBINED work mode allows the cut to be broken down into several stages along the Z axis. This mode is particularly dedicated to thick parts.

PROGRESSIVE COMBINED MODE



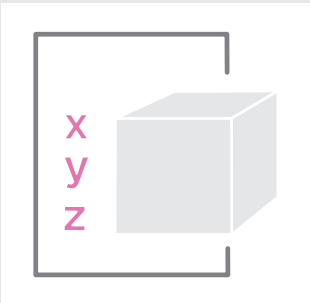
Cutting mode allowing a progression of the cut both along the Z axis and the Y axis, regulated or not. This mode optimizes the cutting time.

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

OPTIONS



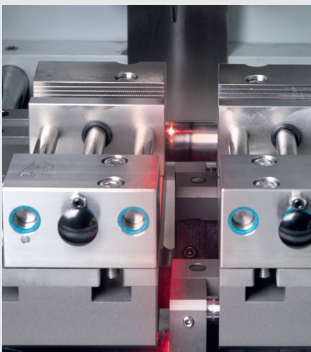
TRANSVERSAL TABLE WITH MOTORIZED MOVEMENT

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 | 300 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-off wheel and table | 90mm (with Ø 300mm cut-off wheel) |
| Positioning laser | Option: Laser Class 1M; Po = 1mW; I = 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



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



Kit of v positioning supports
Ref. 50370



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 ₂ O ₃ | Ø 250 x 1,6 x 32mm |
| | 01022 | Al ₂ O ₃ | Ø 300 x 2 x 32mm |
| AO | 01014 | Al ₂ O ₃ | Ø 250 x 1,6 x 32mm |
| | 01020 | Al ₂ O ₃ | Ø 300 x 2 x 32mm |
| A | 01015 | Al ₂ O ₃ | Ø 250 x 1,6 x 32mm |
| | 01021 | Al ₂ O ₃ | Ø 300 x 2 x 32mm |
| AOF II | 01012* | Al ₂ O ₃ | Ø 250 x 0,8 x 32mm |
| | 01013 | Al ₂ O ₃ | Ø 250 x 0,8 x 32mm |
| MNF | 01019 | Al ₂ O ₃ | Ø 300 x 1 x 32mm |
| | Non-ferrous materials | | |
| T | 01017 | SiC | Ø 250 x 1,6 x 32mm |
| | 01023 | SiC | Ø 300 x 2 x 32mm |
| F | 01071 | SiC | Ø 250 x 1,6 x 32mm |
| | 01072 | SiC | Ø 300 x 2 x 32mm |
| | 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 |