

CUTTING



MOUNTING



POLISHING



HARDNESS TESTING



# MECATOME T 180

PRECISION MICRO CUTTING MACHINE



Efficient and powerful, Mecatome T180 can cut a large range of materials (from the hardest to the softest ones).



A STRONG WORLDWIDE PRESENCE THROUGH SUBSIDIARIES AND MORE THAN 35 DISTRIBUTORS



# FUNCTIONALITIES

## REF. 51700

**Width**  
430mm

**Depth**  
380mm

**Height closed lid**  
330mm

**Height opened lid**  
680mm

**Weight**  
30 kg

**Conformity**  
EC

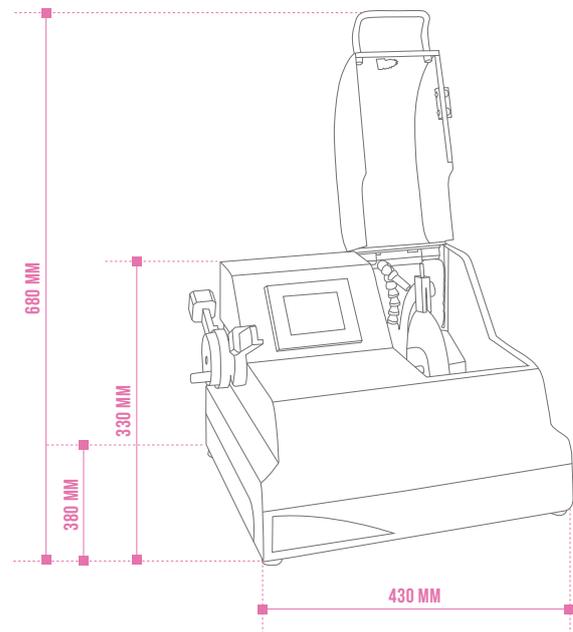
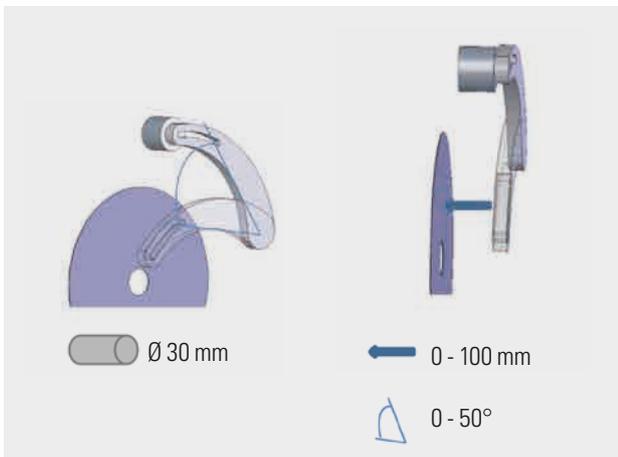
### A cutting machine with compact dimensions

Robustly built, Mecatome T180 can cut a large range of materials (from the hardest to the softest ones).



The large tactile screen provides an easy to use interface to control all cutting parameters and display X-axis positioning of the cut.

## CUTTING ENVELOPE\*



\* This illustration of the cutting envelope of the MECATOME T330 is to show the maximum theoretical capacity only. The actual capacity in practice will depend on the sample geometry and its physical properties.

# CHARACTERISTICS

HOOD	
Type	PETG
Safety	Closure switch to cut off motor when hood opened
MOTORIZATION-POWER SUPPLY	
Power	575 W
Power supply	220 V / Single phase / 50 Hz-upon request 110 V / Single phase/60 Hz
CUT-OFF WHEELS	
Type of cut-off wheels	Resin bonded and metal bonded
Cut-off wheel size range	From Ø 75 to Ø 180mm
Rotation speed	From 300 to 2.500 RPM-Option: slow speed kit from 100 to 1.200 RPM
Arbor size	12.7mm
CONTROL	
Control Interface	Color touch control screen
Security Access	Can activate password protection
Programmability	Up to 3 programs
CUTTING	
Cutting method	Manual or by gravity (Weight/counter-Weight)
X axis range	100mm X-axis movement of the sample carrier arm
Holders	Sample carrier arm will accept a wide variety of holders
LUBRICATION-COOLING	
Pump & tank	Integrated-Capacity 2.5 L
Type of lubrication	Recirculating pump or drag feed
Method of directing pumped coolant	A single alignable nozzle
Type of filtration	Exchangeable paper filters
ERGONOMICS	
Spray nozzle for cleaning	Integrated

# ACCESSORIES

## Sample chucks

- 51715**  
V shaped sample chuck
- 51717**  
Vice chuck for longitudinal cuts
- 51713**  
Chuck for small samples (Vice Type)
- 51156**  
Orientable chuck (to be used with aluminium plates Ref. 51162 and 51163)
- 51714**  
Irregular shaped sample chuck
- 51716**  
Chuck for cylindrical sample (up to 32mm)
- 51162**  
Set of 5 Aluminium plates (60 x 25mm) for samples sticking
- 51163**  
Set of 5 Aluminium plates (40 x 25mm) for samples sticking

## Flanges

- 51710**  
Set of 2 flanges Ø 35mm for wheel Ø 75 to 100 mm
- 51711**  
Set of 2 flanges Ø 50mm for wheel Ø 100 to 150 mm
- 51712**  
Set of 2 flanges Ø 75mm for wheel Ø 150 to 180mm

## Other accessories

- 51720**  
Low speed kit 100 to 1 200 RPM T180/Flexicut
- 51730**  
Self lighting LED on magnetic base



REF. 51715



REF. 51717



REF. 51713



REF. 51156



REF. 51714



REF. 51716



REF. 51162 - 51163



REF. 51710 - 51711 - 51712



REF. 51730

# CONSUMABLES

## STANDARD RESINOID CUT-OFF WHEELS

REF.	DESIGNATION	DIAMETER	HARDNESS	MATERIALS
01040	Type A abrasive Al <sub>2</sub> O <sub>3</sub> (ferrous materials)	Ø 100 x 0.3 x 12.7mm	100 - 350 Hv	Low carbon, mild and extra mild and treated steels with medium cross-sections
01046	Type AO abrasive Al <sub>2</sub> O <sub>3</sub> (ferrous materials)	Ø 125 x 0.5 x 12.7mm	300 - 500 Hv	Treated steels, stainless steels, refractory metals, alloyed cast irons
01043		Ø 150 x 0.5 x 12.7mm		
01041	Type C abrasive SiC (non ferrous materials)	Ø 100 x 0.3 x 12.7mm	30 - 350 Hv	Aluminium, copper and alloys, non ferrous metals, titanium and alloys
01060	Type SiC abrasive SiC	Ø 180 x 0.5 x 25.4mm*	450 - 700 Hv	Treated steels, with fragile coatings, difficult materials

\* To be used with reduction ring (Ref. 51324)

## DIAMOND CUT-OFF WHEELS

REF.	DESIGNATION	DIAMETER	MATERIALS
02030	Type LM	Ø 75 x 0.3 x 12.7mm	Ceramics, composites, tungsten carbide, alumina, sintered carbides
02031		Ø 100 x 0.3 x 12.7mm	
02034		Ø 125 x 0.5 x 12.7mm	
02036		Ø 150 x 0.6 x 12.7mm	
02055		Ø 175 x 0.7 x 12.7mm	
02057	Type LM+	Ø 75 x 0.3 x 12.7mm	Ceramics (large sections), tungsten carbide, silicon carbide, plasma deposit, mounted samples, refractory materials, minerals, concretes
02060		Ø 100 x 0.3 x 12.7mm	
02063		Ø 125 x 0.5 x 12.7mm	
02064		Ø 150 x 0.6 x 12.7mm	
02066	Ø 175 x 0.7 x 12.7mm		
02058	Type LR	Ø 75 x 0.5 x 12.7mm	Composites, plasma deposit, ceramics, electronic components
02033		Ø 100 x 0.5 x 12.7mm	
02035		Ø 125 x 0.5 x 12.7mm	
02037		Ø 150 x 0.6 x 12.7mm	
02067		Ø 175 x 0.9 x 12.7mm	

**LM** **Metallic bond.** Very polyvalent cut-off wheel, normal concentration, to cut hard materials such as:

—■ ceramics, composites, tungsten carbide, alumina, sintered carbides.

**LM+** **Metallic bond.** High concentration disc to cut hard materials such as:

—■ ceramics (large sections), tungsten carbide, silicon carbide, plasma deposit, mounted samples, refractory materials, minerals, concretes...

**LR** **Resin bond.** High concentration disc, advised when you want the best cutting quality. To cut hard and fragile materials:

—■ composites, plasma deposit, ceramics, electronic components...

## BORON CARBIDE CUT-OFF WHEELS

REF.	DESIGNATION	DIAMETER	MATERIALS
02059	Type NB	Ø 75 x 0.5 x 12.7mm	Cast irons, treated steels, hard and high speed steels
02062		Ø 100 x 0.5 x 12.7mm	
02050		Ø 125 x 0.5 x 12.7mm	
02065		Ø 150 x 0.6 x 12.7mm	
02056		Ø 175 x 0.7 x 12.7mm	

**NB** **Resin bond.** High concentration disc of boron nitride edge to cut :

—■ Cast irons, treated steels, hard and high speed steels

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