

MECATOME ST 310

INNOVATION IN CUTTING



New manual cutting system.

High capacity machine: possibility of cutting large and long workpieces. Simple and adaptable, 4 preset speeds for getting best cutting results regardless the type of materials.





FUNCTIONALITIES



REF. 50200

660mm + 120 mm for the swinging arm

Depth

880mm

Height closed lid

660mm

Height opened lid

970mm

Weight

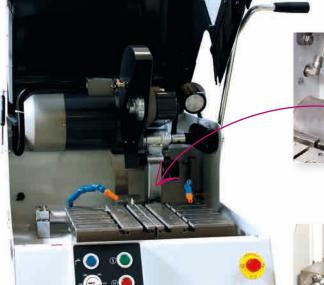
120 kg

Conformity

Manual abrasive cut-off machine with a swing action for increased cutting speed

MECATOME ST 310 with its PRESI exclusive swing arm action provides for increased length of longitudinal cut capacity and rapid sectioning without burning making it the highest performer in its class.

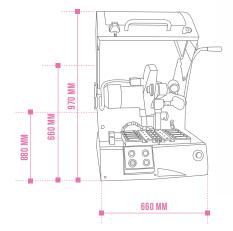




Mecatome ST310

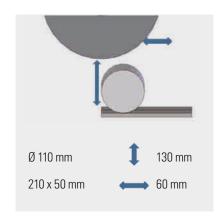






CUTTING ENVELOPE*

A choice of 250mm or 300mm diameter cut-off blades coupled with up to 4 pre-set rotational speeds provides the optimum cutting condition for a wide range of materials. The MECATOME ST 310 has been designed with the need to be able to easily accommodate samples that are longer than the chamber through the use of removable side ports. Sample set up is easy with the raised "T" slot bed, large, well lit cutting chamber and wide open access thanks to a fully retracting hood. Observation of the sample during the cutting operation is enhanced with the provision of extra-large windows in the hood.



* This illustration of the cutting envelope of the MECATOME ST 310 is to show the maximum theoretical capacity only. The actual capacity in practice will depend on the sample geometry

SWINGING MOVEMENT

MECATOME ST 310 equipped with a swinging movement allows a 60% time saving compared with traditional cutting machine and means for the user, a significant reduction of effort

The contact point between sample and cut-off wheel is always different: so easier is the cut.



CHARACTERISTICS

HOOD		
Туре	PETG enclosure with metal hinges and gas strut assisted lift	
Safety	Interlock switch keeps hood locked during cutting	
MOTORIZATION-POWER SUPPLY		
Power	3 700 W	
Power supply	380 V / Three-phases / 50 Hz	
Control of the motor	Frequency inverter	
CUT-OFF WHEELS		
Type of cut-off wheels	Resin bonded and metal bonded	
Cut-off wheel size range	Up to 300mm	
Rotation speed	2.800, 3.200, 3.700 or 4.000 RPM	
Arbor size	25.4mm	
CONTROL		
Control Interface	Push buttons	
CUTTING		
Cutting modes	Manual swing action	
Table dimensions	390 x 290mm	
Distance between cut-off wheel and table	130 mm (with a Ø 300mm wheel)	
Type of table	Treated aluminum table with exchangeable stainless blocks	
Holders	Any sample fixturing system compatible with a 12mm "T" slot bed	
LUBRICATION-COOLING		
Pump & tank	External-60 L	
Type of lubrication	External recirculating system	
Method of directing pumped coolant	2 ports in the wheel guard 2 alignable nozzles in the cutting chamber	
Type of filtration	100 μm washable filter cloth	
ERGONOMICS		
Internal lighting	LED	
Spray nozzle for cleaning	Integrated	
CONFORMITY		
Conformity	EC	

ACCESSORIES

Vices and Holders

51319 Right quick clamping vice

51321

Left quick clamping vice

50906*

Left and right quick clamping vices Height 45mm

Left quick clamping vice Height 45mm

REF. 50905

50909*Right quick clamping vice Height 45mm



REF. 50909



REF. 50902

REF. 51006

50901*

50903*

50613

50616

Kopal holding

Left screw clamping vice Height 45mm

Right screw clamping vice Height 45mm

Box of Kopal holders



REF. 50901

Tables and positioning

51610

Manual X-axis table

Other accessories

51006

Base Cabinet Width 770mm x depth 880mm x height 855mm

51620

Set of 3 filters for coolant tank ST310/T330/T300

* Stainless steel



REF. 50903



REF. 50613



REF. 50616



REF. 50610







50902*Double screw clamping vices Left and Right Height 45mm



REF. 51620

CONSUMABLES

STANDARD RESINOID CUT-OFF WHEELS

REF.	DESIGNATION	DIAMETER	HARDNESS	MATERIALS
01015	Type A	Ø 250 x 1.6 x 32mm*	- 100 - 350 Hv	Low carbon, mild and extra mild and treated steels with medium cross-sections
01021	abrasive Al ₂ O ₃ (ferrous materials)	Ø 300 x 2 x 32mm*	100 - 330 110	
01002		Ø 200 x 1.6 x 25.4mm	300 - 500 Hv	Low carbon, mild and extra mild and treated steels with medium cross-sections
01014	Type AO abrasive AI,O, (ferrous materials)	Ø 250 x 1.6 x 32mm*		
01020	abrasivo Ai ₂ O ₃ (torrous materials)	Ø 300 x 2 x 32mm*		
01012	Type AOF II "S" abrasive Al ₂ O ₃ (ferrous materials)	Ø 250 x 0.8 x 32mm	80 - 300 Hv	Rubber bonded cut-off wheel, thin section cutting, low cross-section sintered steels, hard metal layers
01001	Type AOF II abrasive Al ₂ 0 ₃ (ferrous materials)	Ø 200 x 0.8 x 25.4mm		
01013		Ø 250 x 0.8 x 32mm		
01019		Ø 300 x 1 x 32mm		
01018	Type F abrasive SiC (non ferrous materials)	Ø 250 x 1.6 x 32mm*	150 - 400 Hv	White, grey and spheroidal graphite cast iron, titanium and alloys
01024		Ø 300 x 2 x 32mm*		
01005	Type MNF abrasive SiC (non ferrous materials)	Ø 200 x 1.6 x 25.4mm	30 - 350 Hv	Aluminium, copper and alloys, non ferrous metals, titanium and alloys
01017		Ø 250 x 2 x 32mm*		
01023		Ø 300 x 2 x 32mm*		
01060	Type SiC abrasive SIC	Ø 180 x 0.5 x 25.4mm	450 - 700 Hv	Treated steels, with fragile coatings, difficult materials
01016	Type S	Ø 250 x 1.6 x 32mm*		
01022	abrasive Al₂O₃ (ferrous materials)	Ø 300 x 2 x 32mm*		
01071	Type T	Ø 250 x 1.6 x 32mm*	50 - 400 Hv	Titanium, titanium alloys, non ferrous metals
01072	abrasive SiC (non ferrous materials)	Ø 300 x 2 x 32mm*	30 - 400 HV	

DIAMOND CUT-OFF WHEELS

REF.	DESIGNATION	DIAMETER	MATERIALS
02038		Ø 200 x 0.9 x 32mm*	
02042	Type LM	Ø 250 x 1.2 x 32mm*	Ceramics, composites, tungsten carbide, alumina, sintered carbides
02046		Ø 300 x 1.4 x 32mm*	
02040	Type LM+	Ø 200 x 0.9 x 32mm*	Ceramics (large sections), tungsten carbide, silicon carbide, plasma deposit, mounted samples, refractory materials, minerals, concretes
02044		Ø 250 x 1.2 x 32mm*	
02048		Ø 300 x 1.4 x 32mm*	
02041		Ø 200 x 0.9 x 32mm*	
02045	71	Ø 250 x 1.2 x 32mm*	Composites, plasma deposit, ceramics, electronic components
02049		Ø 300 x 1.2 x 32mm*	

BORON CARBIDE CUT-OFF WHEELS

REF.	DESIGNATION	DIAMETER	MATERIALS
02039		Ø 200 x 0.9 x 32mm*	
02043	Type NB	Ø 250 x 1.2 x 32mm*	Cast irons, treated steels, hard and high speed steels
02047		Ø 300 x 1.2 x 32mm*	

NB Resin bond. High concentration disc of boron nitride edge to cut:
Cast irons, treated steels, hard and high speed steels

PRESI IS ALSO...

CUTTING

LR



Mecatome T330

MOUNTING



Mecapress 3

POLISHING



Le Cube

HARDNESS TESTING



Microtech MX 1

POLISHING



Mecatech 334





^{*} To be used with reduction ring (Ref. 01092)