POLISHING HEADS FOR MECATECH 334

TI15 - REF. 67812 Individual pressure For polishing of 1 to 6 mounts (maximum Ø 50mm) automated, reproducible.

TC15 - REF. 67811

Central pressure For automated and reproducible polishing of 3 to 12 mounts in specimen holders Ø 160 to 220mm.

Use

Four types of polishing head are available for MECATECH 334.

pump for a precise dosage.

proportional electronic valve and 50mm

TCI15 - REF. 67810 Individual and Central pressure Integrated functions of the TI15 and TC15 heads.



TCI MAX - REF. 67813 Individual and Central pressure Integrated functions of the TC15 head. For automated and reproducible polishing of 1 to 8 nounts in individual mode (maximum Ø 40mm)



CHARACTERISTICS

TI 15	TC15	TCI 15	TCIMAX
v		¥	~
	¥	¥	~
v	¥	¥	×
	¥	~	~
¥	¥	¥	¥
20 to 150 RPM	20 to 150 RPM	20 to 150 RPM	20 to 150 RPM
Clockwise and counter-clockwise	Clockwise and counter-clockwise	Clockwise and counter-clockwise	Clockwise and counter-clockwise
180 W	180 W	180 W	180 W
0.1-5 daN	0.1-5 daN	0.1-5 daN	0.1-5 daN
30 daN	30 daN	30 daN	30 daN
	¥	¥	
¥	¥	¥	¥
¥	¥	¥	¥
¥	¥	¥	~
¥	¥	¥	~
¥	¥	~	~
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ACCESSORIES FOR POLISHING HEADS

ECIMEN	HOLDERS FOR CENTRAL PR	ESSURE POLISI	ling		TI 15	TC15	TCI 15	TCIMA
102	Specimen holder	ø 160mm	for 6 samples Ø 25 to 32mm			~	~	~
103	Specimen holder	ø 160mm	for 4 samples Ø 30 to 40mm			~	~	~
104	Specimen holder	ø 160mm	for 4 samples Ø 40 to 50mm			~	~	~
106	Specimen holder	ø 160mm a	nnular holding for 6 samples Ø 30	mm		~	~	~
107	Specimen holder	ø 160mm a	nnular holding for 4 samples Ø 40	mm		~	~	~
105	Blank specimen holder	ø 160mm				~	~	~
119	Specimen holder	ø 180mm	for 6 samples Ø 38.1 to 40mm			~	~	~
108	Specimen holder	ø 210mm	for 12 samples Ø 25 to 32mm			~	~	~
109	Specimen holder	ø 210mm	for 8 samples Ø 38.1 to 40mm			~	~	~
110	Specimen holder	ø 210mm	for 6 samples Ø 50mm			~	~	~
114	Specimen holder	ø 210mm	for 6 rectangular samples 30 x s	55mm		~	~	~
111	Specimen holder	ø 220mm	for 3 rectangular samples 50 x	100mm		¥	~	~
116	Compulsory hooking sys	stem for centra	al pressure specimen holder			~	~	~
162	Levelling press for sam					¥	~	~
CIMEN	HOLDERS FOR INDIVIDUAL	PRESSURE POL	ISHING					
830	Specimen holder	ø 150mm	for 6 samples ø 30mm		~		~	~
833	Specimen holder	ø 160mm	for 6 samples ø 40mm		~		~	~
835	Specimen holder	ø 170mm	for 6 samples ø 50mm		¥		¥	~
840	Specimen holder	ø 170mm	for 8 samples ø 30mm					~
DUCTION	N RINGS FOR SPECIMEN HOL	.DERS						
850	1 reduction ring	ø 50mm —	-> ø 25mm		¥		¥	
851	1 reduction ring	ø 50mm —	-> ø 25,4mm		~		~	
852	1 reduction ring	ø 50mm —	-> ø 30mm		~		~	
853	1 reduction ring	ø 50mm —	-> ø 31,7mm		~		~	
854	1 reduction ring	ø 50mm —	-> ø 38,1mm		~		~	
855	1 reduction ring	ø 50mm —	-> ø 40mm		~		~	
856	1 reduction ring	ø 40mm —	-> ø 25mm		~		~	~
857	1 reduction ring	ø 40mm —	-> ø 25,4mm		~		~	~
858	1 reduction ring	ø 40mm —	-> ø 30mm		~		~	~
859	1 reduction ring	ø 40mm —	-> ø 31,7mm		~		*	¥
-		100		<u>نوني</u>	Q	9	6	
57103	REF. 5	7106	REF. 57105	REF. 57116	REF. 67835		REF. 67840)
							6	F
					REF. 67850			OLDERS





PRESI IS ALSO...





HARDNESS TESTING





Resins







MECATECH 334

INNOVATION IN POLISHING



PRESI all technological experience dedicated to the most complete polishing machine on the market!



A STRONG WORLDWIDE PRESENCE THROUGH SUBSIDIARIES AND MORE THAN 35 DISTRIBUTORS

FUNCTIONALITIES

REF. 67805

Width 520mm
Depth 750mm
Height 640mm
Weight 75kg
Conformity EC

Single station, automated polishing machine

MECATECH 334 is a robust, powerful and reliable machine, incorporating the most advanced technologies for ease of use and simple maintenance. Its Ø 250mm and Ø 300mm platens, associated with the TC 15, TI 15 and TCI 15 polishing heads give the best polishing results on all types, sizes and numbers of specimens.



TECHNICAL GLOSSARY

FREQUENCY CONTROLLER

Uses "Inverter" technology. This unit controls the three phase motors. The functions used with the MECATECh 334 are: ultra precise speed variation, constant torque and speed whatever the load, progressive acceleration and immediate stop, two directions of rotation and safety in the event of prolonged overload.

520 MM

LOCKING OF POLISHING HEADS

A mechanical device provides a vertical movement of 50 mm for good ergonomics and automatic locking in the horizontal plane, for increased safety and comfort.

120 X 90 TFT LCD SCREEN

Very sensitive colour touch screen covering all the functions of the MECATECh 334, avoiding a proliferation of keys or buttons and any errors in settings. Very easy to use, with "logical functions".

MEMORISATION

It is possible to store 100 methods of polishing, which ensures perfect reproducibility of methods and enables operators to save their own settings and protect them with a password.

MEASUREMENT OF MATERIAL REMOVAL

An ultra-accurate linear gauge measures the movement of the actuator. This function is particularly useful when it is necessary to remove a precise amount of material, or to look for a defect. The accuracy obtained is plus or minus 5 µ with a suitable polishing pads.

ELECTRONIC PROPORTIONAL VALVE

This unit enables the air pressure to be measured and stabilised at a precise value, thereby ensuring a perfectly constant and reliable force on the specimens. No drift is possible, unlike using a classical pressure controller, ensuring perfect reproducibility with the MECATECH 334.

PERISTALTIC MICRO-PUMP

These pumps give very accurate dosing of liquids, unlike gravity devices. This precise dosing prevents any overheating or drying of the polishing pad and frees the operator from continuous monitoring.

FUNCTIONING

TFT LCD COLOUR TOUCH SCREEN

Thanks to the LCD touch screen, which can be located on the left or right, it is very easy to create or modify a method or to record (100 methods can be stored) and manage the functions of the MECATECh 334. While the cycle is in progress, the current operation is displayed together with the next or previous operation, enabling the operator to anticipate future consumables.

POWERFUL **AND SILENT MOTORS**

The powerful and quiet motors controlled by frequency controllers, and a poly-V belt transmission, with no tension adjustment (new technology) endow the MECATECH 334 with silent operation, giving a high level of comfort in the laboratory.

HIGH POLISHING QUALITY

The force applied to the specimens is controlled by an electronic proportional valve ensuring unequalled accuracy. automatically calculates the force to be applied to the specimen, whatever the number of specimens, eliminating any risk of operator error. The force is reduced when starting and stopping the cycle to give optimum polishing quality.

accurate dose, resulting in substantial economies and perfect reproducibility, whoever the user. **AUTOMATIC LOCKING**

PRECISE DOSING

Automatic locking of the polishing head at the start of the cycle eliminates any risk of error due to the use of a lever. raising the polishing head at the end of the cycle improves ergonomics and the loading/unloading of the specimen stage or individual specimens

PROGRAMMABLE

Apart from the usual adjustment of the polishing time, it is also possible to program the desired amount of material to be removed from the specimen, freeing the operator from tedious and stressful manual operations, with central pressure only.

LED LIGHTING

Illumination of the polishing pad with a LED lamp eliminates shadow areas under the polishing head, giving the user better visual control during operation.

CHARACTERISTICS

	MECAT
Number of polishing platens	1
Diameter of the polishing platen	250 to
Rotation speed	20 to 6
Direction of rotation	Clockv
Notor Power	900 W
Forque compensation	autom
mmediate stop of the platen	autom
Progressive acceleration of the platen	autom
Drying function 600 RPM	~
Spindle on bearings + seal	~
Base platen + anti-vibration joints	~
Automatic diamond distribution Distritech 1	1
Composite removable tank	~
Splash guard	~
ligh strength mechanically welded + painted steel chassis	~
Composite casting	~
IFT LCD 120 x 90mm colour touch screen	~
Simplified service and maintenance without dismantling	~
/oltage / Frequency / Max. current	230 V
Air pressure	5-10 b
Nater inlet	Ø 12m
Nater outlet	Ø 32m
Compressed air (inside)	Ø 10m

Lubricants and abrasives are introduced by peristaltic micro pumps giving an

ELECTRICAL SUPPLY

The 230 V single phase electrical power supply enables the MECATECH 334 to be positioned wherever the user wishes, without any special connection requirements.

USEFUL INFORMATION

MECATECH 334 is equipped with a frequency controller uses inverter technology. This unit controls the three phase motors. The functions used with the MECATECh 334 are: ultra precise speed variation, constant torque and speed whatever the load, progressive acceleration and immediate stop, two directions of rotation and safety in the event of prolonged overload.

600 RPM wise and counter-clockwis 1P / 50 - 60 Hz / 8A

ACCESSORIES

Platens and base drive platens

67820 Almagtech platen Ø 250mm 67821 Almagtech platen Ø 300mm 56055 Circular paper holder (metal) Ø 250mm 56068 Circular paper holder (PVC) Ø 250mm 56069 Circular paper holder (PVC) Ø 300mm

Slurry dispenser

67870 Distritech 1

Covers for polishing machines 66025

PVC Lid (Mecatech 334)

Other accessory

67750 Air compressor (for labs with no compressed air supply)

DISTRITECH







REF. 67870

DISTRITECH 5 - REF. 67875 COMPATIBLE WITH THE WHOLE MECATECH RANGE.



- Slurry dispenser device, with a capacity of 5 bottles, 500cc each to be placed next to MECATECH.
- Each bottle dosage is managed by MECATECH.
- Each DISTRITECH 5 bottle has its own peristaltic pump and its own distribution pipe to avoid cross contamination.
- Priming function.
- Allows colloidal silica distribution by integrating an automatic rinsing function to avoid crvstallisation.

DISTRITECH 1 - REF. 67870 INCORPORATED SLURRY DISPENSER ON MECATECH 334.



- 500cc capacity
- Slurry dispenser for MECATECH 334, easily interchangeable from one bottle to another.
- Dosage is integrated with MECATECH 334.
- Every DISTRITECH 1 has its own peristaltic micro-pump, its distribution pipe to avoid cross contamination, as well as a storage support.
- Priming function.