

innovate.

THE PRESI SIGNATURE. ALL AROUND THE WORLD.



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MECATECH, the latest generation of automatic polishing machines BYPRESI

Innovation.

Equipped with platens from Ø200 to 300 mm, the new range of MECATECH automatic polishing machines has the most advanced technologies.

Versatility.

The MECATECH range allows both manual and automatic use.

Unrivaled motor power.

Thanks to an motor power from 750W to 1500W, the entire PRESI experience is condensed in this most complete range on the market.

OPTIONAL

DISTRITECH 5.1 - Ref. 67890

Abrasive suspensions dispenser device

Compatible with the entire MECATECH range

- Capacity: 5 bottles of 500 cc
- Each abrasive suspension dispenser is managed by the machine
- No risk of pollution: each bottle has its own distribution circuit
- Priming function
- Colloidal silica distribution with automatic rinsing function, no risk of crystallisation

Reliability and regularity.

Whatever the size or the number of samples, MECATECH guarantees an optimal polishing.

Robustness and character.

With its affirmed style and edged lines, this new range is distinguished by its new design with an easily recognizable sleek and refined carbon look.

> LED illuminated display indicates the bottle in operation



Accessories 100%

compatible with the older generation of MECATECH



Programming and memorization

- Easy creation and modification of polishing methods
- Perfect reproducibility of methods
- Password protection
- A USB connection makes it possible to save the integrity of the registered polishing methods and ensures the evolution of the material

Large touchscreen

- 7"TFT LCD color display, 16/9
- Ergonomic and intuitive user interface
- Many features:
- Speed and direction of rotation (head and platen)
- Sprinkling
- Drying
- Stage duration
 - Applied force
- Management of Distritech 5.1
 - and the 2 tanks integrated



POLISHING HEADS

Polishing heads have a :

- Powerful motor gearing driven by a frequency inverter
- Automatic polishing head locking when the cycle starts: avoids every risk of error

• Lateral shifting of the head to completely release the polishing platen and work in manual mode (except for the 300 SPS model)

surveillance.

SP5

Removes shadow areas under the polishing head giving the user better visual control during operation.

Mecatech

Emergency stop button

Convenient and quick access to the machine emergency stop button to immediately stop its operation.

Programming the value of the desired material removal with central pressure. An ultra-accurate linear gauge (+ or -5μ on a suitable polishing pad) measures the movement of the cylinder. This function frees the operator of tedious manipulations.

Optimum polishing quality

A proportional electronic valve enables the air pressure to be measured and stabilised at a precise value. The force applied to the samples is perfectly constant and reproducibility is guaranteed.

Lubricants or abrasives distribution is ensured by 2 tanks with peristaltic pump. They avoid a possible heating of the polishing support and ensure a precise dosage which frees the operator from a restrictive

LED lighting

FREQUENCY INVERTER

which controls the three-phase motor :

- Gives exceptional power to the head and the platen
- Ultra-precise speed variation
- Constant torgue and speed whatever the applied load
- Progressive acceleration and immediate stop
- 2 directions of rotation (head and platen)
- Thermal security in case of prolonged overload

Easy maintenance

- Additional removable bowl easy to clean
- The tank incorporates an anti-splah device that prevents any projection
- The body and the composite of the removable bowl exclude any oxidation

Driven by a frequency converter and a fully mounted poly-V belt drive, it provides significant work comfort in a lab environment.

MECATECH range

Platen diameters : 200 to 250 mm





Ref. 67910 Width : 510 mm Depth : 810 mm Height : 665 mm Weight : 73 kg 1 platen - 4 pistons Individual pressure





Ref. 67920 Width : 510 mm Depth : 810 mm Height : 665 mm Weight : 73 kg 1 platen - 6 pistons Central and individual pressure



Compliance

Ref. 67930 Width : 920 mm Depth : 735 mm Height : 665 mm Weight : 98 kg 2 platens - 6 pistons Central and individual pressure

Platen diameters : 250 to 300 mm



Compliance

Ref. 67940 Width : 620 mm Depth : 875 mm Height : 680 mm Weight : 82 kg

1 platen - 6 pistons Central and individual pressure



SWEEPING FUNCTION

The MECATECH SPS sweeping function optimizes the use of consumables and improves samples flatness. In addition, productivity is improved by increasing the capacity of the polishing head from 6 to 8 samples.

Compliance

Ref. 67950 Width : 620 mm Depth : 875 mm Height : 700 mm Weight : 96 kg 1 platen - 8 pistons Central and individual pressure

OPTIONAL MECAPROTECT

This protection hood meets the most stringent safety requirements. It perfectly isolates the machine from the operator. The connection between the machine and the hood prevents the MECATECH from working when the hood is open.

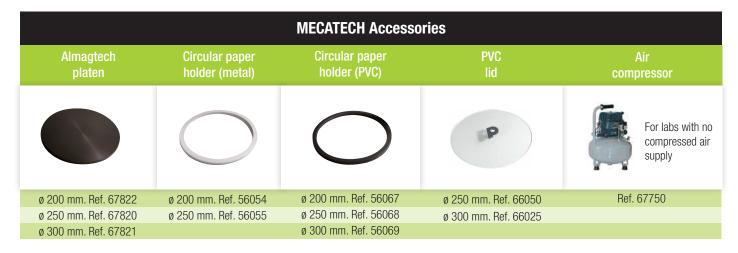
MECAPROTECT 250 Ref. 67915 - MECAPROTECT 300 Ref. 67945





TECHNICAL FEATURES

Automatic polishing machines MECATECH											
MODEL OF THE POLISHING MACHINE	250 SPI	250 SPC	250 DPC	300 SPC	300 SPS						
Number of motors	1	1	2	1	1						
Number of polishing platens	1	1	2	1	1						
Diameter of the polishing platen	200 to 250 mm	200 to 250 mm	200 to 250 mm x2	250 to 300 mm	300 mm						
Rotation speed	20 to 700 RPM	20 to 700 RPM	20 to 700 RPM	20 to 700 RPM	20 to 700 RPM						
Rotation direction : clockwise and counter-clockwise	✓	\checkmark	✓	\checkmark	\checkmark						
Motor power	750 W	750 W	2 x 750 W	1500 W	1500 W						
Torque compensation	Automatic	Automatic	Automatic	Automatic	Automatic						
Immediate stop of the platen	Automatic	Automatic	Automatic	Automatic	Automatic						
Progressive acceleration of the platen	Automatic	Automatic	Automatic	Automatic	Automatic						
Drying function	700 RPM	700 RPM	700 RPM	700 RPM	700 RPM						
Spindle on bearing	✓	\checkmark	\checkmark	\checkmark	\checkmark						
Base platen + anti-vibration seals	✓	\checkmark	\checkmark	\checkmark	\checkmark						
Additional removable bowl	✓	\checkmark	✓	\checkmark	✓						
Splash guard	✓	\checkmark	×	\checkmark	✓						
High strength mechanically welded + painted steel chassis	✓	✓	✓	\checkmark	×						
Body RIM injection	✓	✓	1	✓	×						
16/9 color TFT LCD touch screen 7"	1	\checkmark	✓	\checkmark	\checkmark						
Simplified service and maintenance without dismantling	1	✓	✓	✓	✓						
Power supply	230V 1P	230V 1P	230V 1P	230V 1P	230V 1P						
Frequency	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz						
Max. current	8A	8A	8A	8A	8A						
Air pressure	5-10 bars	5-10 bars	5-10 bars	5-10 bars	5-10 bars						
Water inlet	Ø 12 mm	Ø 12 mm	Ø 12 mm	Ø 12 mm	Ø 12 mm						
Water outlet	Ø 32 mm	Ø 32 mm	Ø 32 mm	Ø 32 mm	Ø 32 mm						
Compressed air	Ø 10 mm	Ø 10 mm	Ø 10 mm	Ø 10 mm	Ø 10 mm						
POLISHING HEADS	250 SPI	250 SPC	250 DPC	300 SPC	300 SPS						
Individual pressure	√	√	∠00 DI 0	√ COC CI C	√						
Central pressure	_	√ 	✓ ✓	✓	✓ ✓						
Mounted samples	\checkmark	✓	✓	✓	✓						
Non mounted samples	-	√	✓	✓	✓						
Rectangular samples	1	✓ ✓	✓	✓	✓ ✓						
Rotation speed	20 to 150 RPM	20 to 150 RPM	20 to 150 RPM	20 to 150 RPM	20 to 150 RPM						
Rotation direction : clockwise and counter-clockwise	✓	∠0 10 100 mm	∠0 to 100 mm	∠0 to 100 mm	∠0 to 100 mm						
Motor power	180 W	180 W	180 W	270 W	270 W						
Force per specimen	0,1-5 daN	0,1-5 daN	0,1-5 daN	0,1-5 daN	0,1-5 daN						
Maximum power available	20 daN	30 daN	30 daN	30 daN	40 daN						
Material removal measurement with automatic stop	20 Uain	SU uaiv	S0 dain	JU Uali	40 Uali						
Force controlled electronically		v √	✓	✓	✓ ✓						
Force reduced at start and end of cycle	↓ ↓	↓	✓ ✓	✓ ✓	✓ ✓						
50mm lowering and raising of the polishing head	↓ ↓	v √	✓	✓							
Automatic locking of the polishing head	↓ ↓	↓	✓ ✓	✓ ✓	-						
200cc (x2) lubricant included in the polishing head	↓ ↓	↓	✓ ✓	v √	✓ ✓						
Sweeping function	, v	• -			✓ ✓						
	-		-	-	v						



POL	ISHING HEAD	MECATECH					
Specim	en holders for central p	ressure polishing	250 SPI	250 SPC	250 DPC	300 SPC	300 SPS
57120	specimen holder Ø120 mm	for 3 samples Ø25 to 32 mm	-	✓	✓	-	-
57126	specimen holder Ø140 mm	for 6 samples Ø25 to 32 mm	-	√	✓	-	-
57125	specimen holder Ø140 mm	for 3 samples Ø30 to 40 mm	-	 ✓ 	\checkmark	-	-
57102	specimen holder Ø160 mm	for 6 samples Ø25 to 32 mm	-	✓	✓	\checkmark	\checkmark
57103	specimen holder Ø160 mm	for 4 samples Ø30 to 40 mm	-	✓	\checkmark	\checkmark	✓
57104	specimen holder Ø160 mm	for 4 samples Ø40 to 50 mm	-	✓	✓	\checkmark	\checkmark
57106	specimen holder Ø160 mm annular holding	for 6 samples Ø30 mm	-	~	~	~	~
57107	specimen holder Ø160 mm annular holding	for 4 samples Ø40 mm	-	✓	✓	\checkmark	√
57105	blank specimen holder	Ø160 mm	-	✓	✓	\checkmark	✓
57119	specimen holder Ø170 mm	for 6 samples Ø30 to 40 mm	-	√	\checkmark	√	\checkmark
57108	specimen holder Ø210 mm	for 12 samples Ø25 to 32 mm	-	-	-	√	✓
57109	specimen holder Ø210 mm	for 8 samples Ø30 to 40 mm	-	-	-	1	1
57110	specimen holder Ø210 mm	for 6 samples Ø50 mm	-	-	-	✓	✓
57114	specimen holder Ø 210 mm	for 6 rectangular samples 30 x 55mm	-	-	-	√	√
57111 57116	specimen holder Ø 220 mm	for 3 rectangular samples 50 x 100mm	-	-	-	√	√
57162	compulsory hooking system levelling press for samples	for central pressure specimen holder	-	\checkmark	✓ ✓	\checkmark	✓ ✓
	nen holders for individua	L proceuro poliching					
			250 581	250 SPG	250 DPG	300 SPC	300 SPS
			250 SPI	250 SPC	250 DPC	300 SPC	300 SPS
57142 57141	specimen holder Ø140 mm	for 4 samples Ø30 mm for 4 samples Ø40 mm			250 DPC	300 SPC	300 SPS
57142		for 4 samples Ø30 mm	✓	250 SPC	250 DPC	300 SPC	300 SPS
57142 57141	specimen holder Ø140 mm specimen holder Ø150 mm	for 4 samples Ø30 mm for 4 samples Ø40 mm	✓ ✓	250 SPC	250 DPC - - - -	300 SPC - - - -	300 SPS
57142 57141 57144	specimen holder Ø140 mm specimen holder Ø150 mm specimen holder Ø150 mm	for 4 samples Ø30 mm for 4 samples Ø40 mm for 4 samples Ø38,1 mm	✓ ✓		- - -	- - -	300 SPS
57142 57141 57144 67830	specimen holder Ø140 mm specimen holder Ø150 mm specimen holder Ø150 mm specimen holder Ø150 mm	for 4 samples Ø30 mm for 4 samples Ø40 mm for 4 samples Ø38,1 mm for 6 samples Ø30 mm	✓ ✓	- - - -	- - -	- - -	300 SPS
57142 57141 57144 67830 67833	specimen holder Ø140 mm specimen holder Ø150 mm specimen holder Ø150 mm specimen holder Ø150 mm specimen holder Ø160 mm	for 4 samples Ø30 mm for 4 samples Ø40 mm for 4 samples Ø38,1 mm for 6 samples Ø30 mm for 6 samples Ø40 mm	✓ ✓	- - - -	- - - -	- - -	300 SPS
57142 57141 57144 67830 67833 57143 67835 67838	specimen holder Ø140 mm specimen holder Ø150 mm specimen holder Ø150 mm specimen holder Ø150 mm specimen holder Ø160 mm specimen holder Ø170 mm specimen holder Ø170 mm	for 4 samples Ø30 mm for 4 samples Ø40 mm for 4 samples Ø38,1 mm for 6 samples Ø30 mm for 6 samples Ø40 mm for 3 samples Ø50 mm	✓ ✓	- - - -	- - - -	- - - - -	300 SPS
57142 57141 57144 67830 67833 57143 67835 67838 67837	specimen holder Ø140 mm specimen holder Ø150 mm specimen holder Ø150 mm specimen holder Ø150 mm specimen holder Ø160 mm specimen holder Ø170 mm specimen holder Ø170 mm specimen holder Ø180 mm	for 4 samples Ø30 mm for 4 samples Ø40 mm for 4 samples Ø38,1 mm for 6 samples Ø30 mm for 6 samples Ø40 mm for 6 samples Ø50 mm for 6 samples Ø50 mm for 8 samples Ø30 mm for 8 samples Ø40 mm	✓ ✓	- - - -	- - - -	- - - - - - - -	- - - - - - - - - - - - - -
57142 57141 57144 67830 67833 57143 67835 67838	specimen holder Ø140 mm specimen holder Ø150 mm specimen holder Ø150 mm specimen holder Ø150 mm specimen holder Ø160 mm specimen holder Ø170 mm specimen holder Ø170 mm	for 4 samples Ø30 mm for 4 samples Ø40 mm for 4 samples Ø38,1 mm for 6 samples Ø30 mm for 6 samples Ø40 mm for 3 samples Ø50 mm for 6 samples Ø50 mm for 8 samples Ø30 mm	✓ ✓	- - - -	- - - -	- - - - - - - -	- - - - - - - -
57142 57141 57144 67830 67833 57143 67835 67838 67837 67836	specimen holder Ø140 mm specimen holder Ø150 mm specimen holder Ø150 mm specimen holder Ø150 mm specimen holder Ø160 mm specimen holder Ø170 mm specimen holder Ø170 mm specimen holder Ø180 mm	for 4 samples Ø30 mm for 4 samples Ø40 mm for 4 samples Ø38,1 mm for 6 samples Ø30 mm for 6 samples Ø40 mm for 3 samples Ø50 mm for 6 samples Ø50 mm for 8 samples Ø30 mm for 8 samples Ø40 mm for 8 samples Ø50 mm	✓ ✓	- - - -	- - - -	- - - - - - - -	- - - - - - - - - - - - - -
57142 57141 57144 67830 67833 57143 67835 67835 67838 67837 67836 Reduct	specimen holder Ø140 mm specimen holder Ø150 mm specimen holder Ø150 mm specimen holder Ø150 mm specimen holder Ø160 mm specimen holder Ø170 mm specimen holder Ø170 mm specimen holder Ø180 mm specimen holder Ø190 mm	for 4 samples Ø30 mm for 4 samples Ø40 mm for 4 samples Ø38,1 mm for 6 samples Ø30 mm for 6 samples Ø40 mm for 3 samples Ø50 mm for 6 samples Ø50 mm for 8 samples Ø30 mm for 8 samples Ø40 mm for 8 samples Ø50 mm	✓ ✓ ✓ - - - - - - - - - - - - - -	- - - - - - - - - -	- - - ✓ - - - - - -	- - - - - - - - -	- - - - - - - - - - - - - - - - - - -
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57142 57141 57144 67830 67833 57143 67835 67838 67837 67836 Reduct 67850 67851 67852	specimen holder Ø140 mm specimen holder Ø150 mm specimen holder Ø150 mm specimen holder Ø150 mm specimen holder Ø160 mm specimen holder Ø170 mm specimen holder Ø170 mm specimen holder Ø180 mm specimen holder Ø190 mm specimen holder Ø200 mm ion rings for specimen h 1 reduction ring 1 reduction ring 1 reduction ring	for 4 samples Ø30 mm for 4 samples Ø40 mm for 4 samples Ø38,1 mm for 6 samples Ø30 mm for 6 samples Ø40 mm for 3 samples Ø50 mm for 6 samples Ø50 mm for 8 samples Ø50 mm for 8 samples Ø40 mm for 8 samples Ø50 mm tolders Ø 50 mm> Ø 25 mm Ø 50 mm> Ø 25,4 mm Ø 50 mm> Ø 30 mm	 ✓ ✓ ✓ – – – – – 250 SPI – 	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - 300 SPC ✓ - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -
57142 57141 57144 67830 67833 57143 67835 67838 67837 67836 Reduct 67850 67851 67852 67853	specimen holder Ø140 mm specimen holder Ø150 mm specimen holder Ø150 mm specimen holder Ø150 mm specimen holder Ø150 mm specimen holder Ø170 mm specimen holder Ø170 mm specimen holder Ø170 mm specimen holder Ø180 mm specimen holder Ø190 mm specimen holder Ø200 mm tion rings for specimen holder 1 reduction ring 1 reduction ring 1 reduction ring 1 reduction ring	for 4 samples Ø30 mm for 4 samples Ø40 mm for 4 samples Ø38,1 mm for 6 samples Ø30 mm for 6 samples Ø30 mm for 6 samples Ø50 mm for 6 samples Ø50 mm for 8 samples Ø30 mm for 8 samples Ø50 mm ø 50 mm> Ø 25,4 mm Ø 50 mm> Ø 30 mm Ø 50 mm> Ø 30 mm Ø 50 mm> Ø 31,7 mm	 ✓ ✓ ✓ – – – – – – 250 SPI – –	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - 300 SPC - - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -
57142 57141 57144 67830 67833 57143 67835 67838 67837 67836 Reduct 67850 67851 67852 67853 67854	specimen holder Ø140 mm specimen holder Ø150 mm specimen holder Ø150 mm specimen holder Ø150 mm specimen holder Ø150 mm specimen holder Ø170 mm specimen holder Ø170 mm specimen holder Ø170 mm specimen holder Ø190 mm specimen holder Ø190 mm specimen holder Ø200 mm ton rings for specimen h 1 reduction ring 1 reduction ring 1 reduction ring 1 reduction ring 1 reduction ring 1 reduction ring 1 reduction ring	for 4 samples Ø30 mm for 4 samples Ø40 mm for 4 samples Ø38,1 mm for 6 samples Ø30 mm for 6 samples Ø30 mm for 6 samples Ø50 mm for 8 samples Ø50 mm for 8 samples Ø50 mm for 8 samples Ø40 mm for 8 samples Ø40 mm for 8 samples Ø50 mm tolders Ø 50 mm> Ø 25 mm Ø 50 mm> Ø 25,4 mm Ø 50 mm> Ø 30 mm Ø 50 mm> Ø 31,7 mm Ø 50 mm> Ø 38,1 mm	 ✓ ✓ ✓ – – – – – – 250 SPI – –	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - 300 SPC ✓ - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -
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57142 57141 57144 67830 67833 57143 67835 67836 7836 7836 67850 67851 67852 67853 67854 67855 67856 67857	specimen holder Ø140 mm specimen holder Ø150 mm specimen holder Ø150 mm specimen holder Ø150 mm specimen holder Ø160 mm specimen holder Ø170 mm specimen holder Ø170 mm specimen holder Ø170 mm specimen holder Ø180 mm specimen holder Ø190 mm specimen holder Ø200 mm ten rings for specimen holder 1 reduction ring 1 reduction ring	for 4 samples Ø30 mm for 4 samples Ø40 mm for 4 samples Ø38,1 mm for 6 samples Ø30 mm for 6 samples Ø40 mm for 3 samples Ø50 mm for 6 samples Ø50 mm for 8 samples Ø50 mm for 8 samples Ø30 mm for 8 samples Ø50 mm for 9 samples Ø50 mm for 8 samples Ø50 mm for 9 somm> Ø 25,4 mm Ø 50 mm> Ø 30 mm Ø 50 mm> Ø 31,7 mm Ø 50 mm> Ø 40 mm Ø 40 mm> Ø 25 mm Ø 40 mm> Ø 25 mm	 ✓ ✓ ✓ – –	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -
57142 57141 57144 67830 67833 57143 67835 67837 67836 7836 7850 67851 67852 67853 67854 67855 67856	specimen holder Ø140 mm specimen holder Ø150 mm specimen holder Ø150 mm specimen holder Ø150 mm specimen holder Ø160 mm specimen holder Ø170 mm specimen holder Ø170 mm specimen holder Ø170 mm specimen holder Ø190 mm specimen holder Ø200 mm ion rings for specimen h 1 reduction ring 1 reduction ring	for 4 samples Ø30 mm for 4 samples Ø40 mm for 4 samples Ø38,1 mm for 6 samples Ø30 mm for 6 samples Ø40 mm for 6 samples Ø40 mm for 8 samples Ø50 mm for 8 samples Ø50 mm for 8 samples Ø40 mm for 8 samples Ø50 mm tolders Ø 50 mm> Ø 25 mm Ø 50 mm> Ø 25,4 mm Ø 50 mm> Ø 30 mm Ø 50 mm> Ø 31,7 mm Ø 50 mm> Ø 38,1 mm Ø 50 mm> Ø 40 mm Ø 40 mm> Ø 25 mm	 ✓ ✓ ✓ – –	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -	- - - - - - - - - - - - - - - - - - -



Ref. 57120 - 57125



Ref. 67835



Ref. 57102 - 57126



Ref. 67836 to 67838



Ref. 57103



Ref. 57140 to 57142



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Ref. 57116



Ref. 57106



Reduction ring



Ref. 57107



Specific holders on request



