TOP TECH

PLATO-E Series

Manual Grinding & Polishing

E-F-M1 Ø300mm

E-FR-M1 Ø300mm

Perfect Surface. Always

F-M1 Ø300mm/FR-M1 Ø300mm

- Safe and convenient grinding arm is suitable for various samples
- Intuitive display design for easy operation
- Multiple choices of platen applications (Option)
- Employing diamond discs (Option) ensures the flatness
- Compatible with dispenser (Option)

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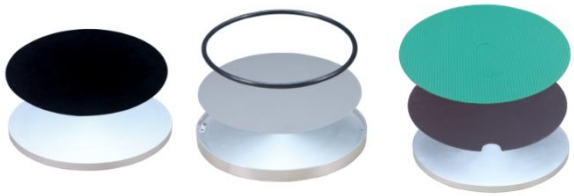
Introduction & feature

Fiber-Reinforced Plastic (FRP) body cover
FRP body cover design is easier for maintenance and endurable.

Platen speed and direction adjustable
Adjust the platen speed and rotational direction based on the sample materials.

Intuitive display design
Intuitive display design is easy to learn for operators.

Multiple choices of platens are suitable for various consumables
Platen can be rapidly replaced. According to the feature of the consumables, such as PSA back SiC papers, plain back SiC papers, diamond discs, and polishing cloths, to apply with suitable platens.



High effective brushless motor
Low rotational speed and high torque ensure the precision of grinding/ polishing, and also has longer lifespan.

Expand platen is for a wider size sample grinding/ polishing
Different from the restriction of 8” and 10” platens, platen size of Ø300mm (12”) increases the sample size for grinding or polishing.

Versatile M1 sample-fix arm
Manually grinding by assistance handle, with fixed design of adjustable height for Z-axis, and the arm is able to move horizontally. Also, the sample holder can be rapidly changed.

Flexible operation with dual platens (E-FR-M1)
Dual platens increase the efficiency of the application for platens. Grinding and polishing can be able to process at the same time.

Compatible with dispenser (Option)
Opting for a dispenser can distribute diamond suspension or aluminum suspension automatically.

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Accessories (Optional)

Item	Order no.
Dispenser-one bottle type	P20F0027
Dispenser-four bottle type	P20F0028

Grinding Platen

Polishing Platen

Magnetic Platen and Paper Hold

Item	Spec.	Order no.
Grinding Platen (Patent)	12”	CP0603
Polishing Platen	12”	P30E010503
Magnetic Platen and Paper Hold (Patent)	12”	CP0503

Anti-Splash Cover (Standard)

Item	Spec.	Order no.
Anti-Splash Cover (Standard)	12”	P30E0107

Item	Spec.	Order no.
Magnetic Pad (Option)	12”	S080103

Item	Spec.	Order no.
Carrier Plate (Option)	12”	S090103

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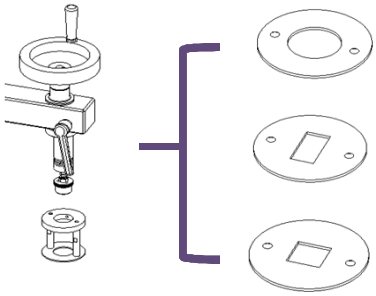
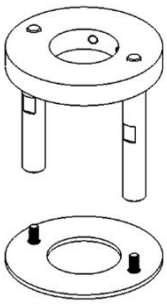
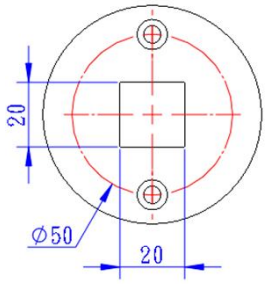
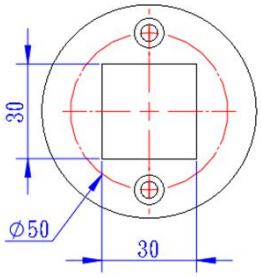
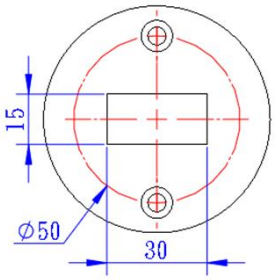
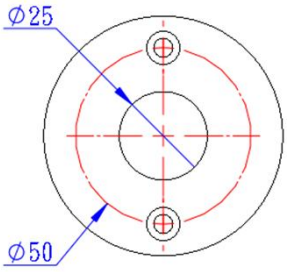
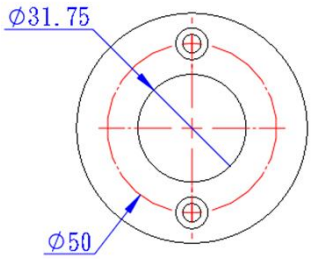
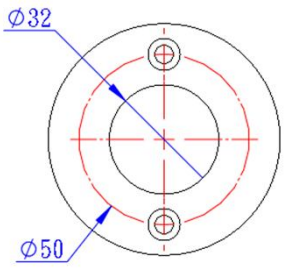
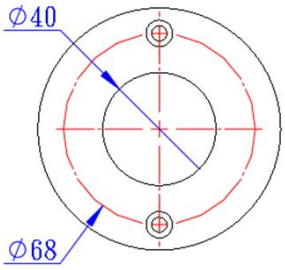
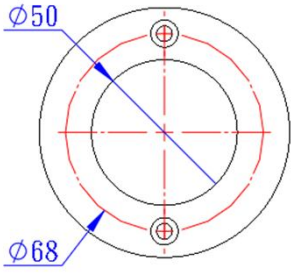




Holder Set

Sample Holder

P20K0021A Sample Holder (20x20)	P20K0021B Sample Holder (30x30)	P20K0021C Sample Holder (30x15)
		
P20K0021D **Sample Holder (25)**	**P20K0021E** **Sample Holder (31.75)**	**P20K0021** **Sample Holder (32)**
		
P20K0022 **Sample Holder (40)**	**P20K0023** **Sample Holder (50)**	
		**The holder set for the Sample Holder ø40 and ø50 can not be applied to other sizes of sample holders.**

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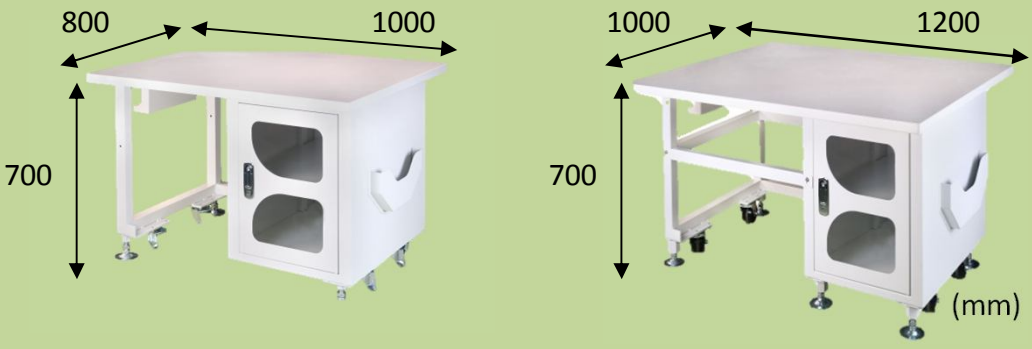
Working Table (Optional)

	TF01	TF02
size(L*W*H)	1000*800*700 mm	1200*1000*700 mm

Sample



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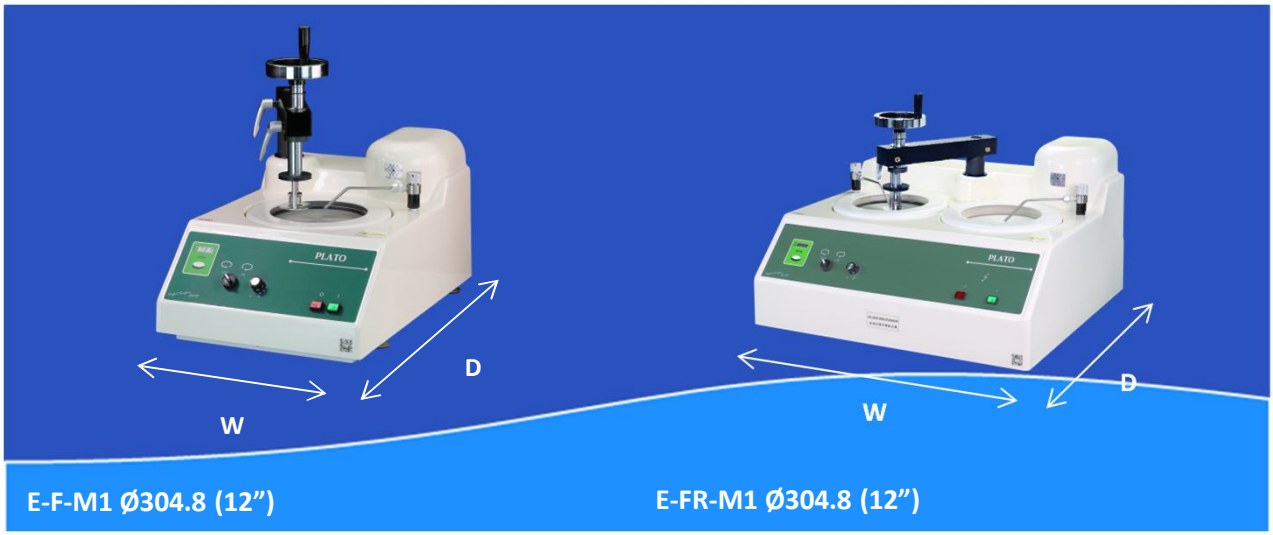
Specifications

Model	E-F-M1	E-FR-M1
Platen Size (mm)	Ø304.8 (12")	Ø304.8 (12")
Platen Quantity	1	2
Grinding Method	Manual	Manual
Noise Level (dB)	52~57	54~59
Platen Motor Power (W)	370	370
Platen Rotational Speed (rpm)	50~600 (Special rotational speed can be customized)	
Machine Dimension WxDxH (mm)	500x800x528	850x750x528
Machine Weight (kg)	74	111
Water Inlet Pipe Size (mm)	10mm pipes (Inlet Ø10 — Outlet Ø15)	10mm pipes (Inlet Ø10 — Outlet Ø15)
Water Outlet Pipe Size (mm)	26mm pipes (Inlet Ø26 — Outlet Ø30)	32mm pipes (Inlet Ø32 — Outlet Ø36)
Power Supply (V)	AC110/220 1Ø	AC110/220 1Ø
Accessories	Grinding Platen 1pc, O-ring 1pc, Anti-Splash Cover 1pcs, Silicon Carbide Paper 8pcs, Polishing Cloth 2pcs, Aluminum Oxide Powder 100g, 500g Dispenser 1pc	Grinding Platen 1pc, O-ring 1pc, Polishing Platen 1pc, Anti-Splash Cover 2pcs, Silicon Carbide Paper 8pcs, Polishing Cloth 2pcs, Aluminum Oxide Powder 100g, 500g Dispenser 1pc
Option	P20F0027 Dispenser Set- single bottle, P20F0028 Dispenser Set- four bottles, PA0108-3 8" Anti-Splash Cover (Standard), PA0108-4 10" Anti-Splash Cover (Standard)	



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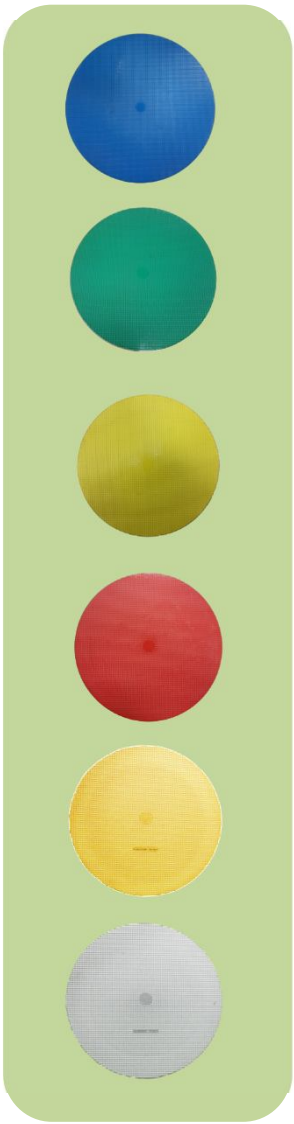
Consumable (Option)

Diamond Disc



Ordering No.	Description	Magnetic Pad	Package (pc/box)
No. 1	Equivalent to SiC Paper of P120		
SAA09CA54050	12” (305mm)	●	1
No. 2	Equivalent to SiC Paper of P240		
SAA09CA55050	12” (305mm)	●	1
No. 3	Equivalent to SiC Paper of P600		
SAA09CA56050	12” (305mm)	●	1
No. 4	Equivalent to SiC Paper of P1200		
SAA09CA58050	12” (305mm)	●	1
No. 5	Without diamond particles, applied with diamond suspension for polishing (Suitable for general material)		
SAA09CA53050	12” (305mm)	●	2
No. 6	Without diamond particles, applied with diamond suspension for polishing (Suitable for harder material)		
SAA09CA52050	12” (305mm)	●	2

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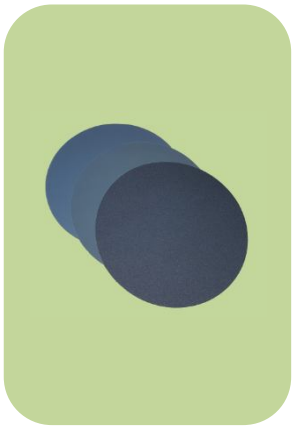
FEPA P SiC Paper (Plain Back)



	Size	Grain Size	Package (pcs/pack)
Ordering No.	Φ 305mm SiC Paper (Plain Back)		
S0530001	12”(305mm)	P60	100
S0530004	12”(305mm)	P120	100
S0530007	12”(305mm)	P240	100
S0530008	12”(305mm)	P320	100
S0530009	12”(305mm)	P400	100
S0530010	12”(305mm)	P600	100
S0530011	12”(305mm)	P800	100
S0530012	12”(305mm)	P1000	100
S0530013	12”(305mm)	P1200	100
S0530014	12”(305mm)	P1500	100
S0530015	12”(305mm)	P2000	100

FEPA P SiC Paper (PSA Back)

	Size	Grain Size	Package (pcs/pack)
Ordering No.	Φ 305mm SiC Paper (PSA Back)		
S05A30004	12”(305mm)	P120	100
S05A30006	12”(305mm)	P180	100
S05A30007	12”(305mm)	P240	100
S05A30010	12”(305mm)	P600	100
S05A30011	12”(305mm)	P800	100
S05A30012	12”(305mm)	P1000	100
S05A30013	12”(305mm)	P1200	100
S05A30014	12”(305mm)	P1500	100
S05A30015	12”(305mm)	P2000	100

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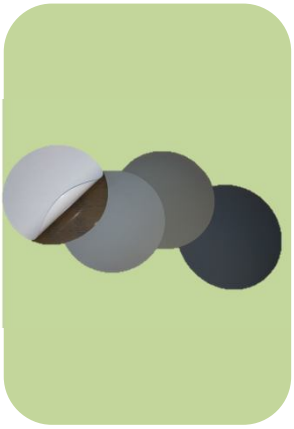
ANSI SiC Paper (Plain Back)

	Size	Grain Size	Package (pcs/pack)
Ordering No.	Φ 305mm SiC Paper (Plain Back)		
S0530120060AU	12”(305mm)	#60	100
S0530120120AU	12”(305mm)	#120	100
S0530120180AU	12”(305mm)	#180	100
S0530120240AU	12”(305mm)	#240	100
S0530120320AU	12”(305mm)	#320	100
S0530120400AU	12”(305mm)	#400	100
S0530120600AU	12”(305mm)	#600	100
S0530120800AU	12”(305mm)	#800	100
S0530121200AU	12”(305mm)	#1200	100

ANSI SiC Paper (PSA Back)



	Size	Grain Size	Package (pcs/pack)
Ordering No.	Φ 305mm SiC Paper (PSA Back)		
S05A30120600AU	12” (305mm)	#600	100
S05A30120800AU	12” (305mm)	#800	100
S05A30121000AU	12” (305mm)	#1000	100
S05A30121200AU	12” (305mm)	#1200	100

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Diamond Suspension

Ordering No.	Monocrystalline Diamond Suspension	Color	Capacity (ml/bottle)
S0703080902	0.1um	Dark Gray	300ml
S0703030902	1um	Blue	300ml
S0703040902	3um	Green	300ml
S0703050902	6um	Yellow	300ml
S0703060902	9um	Red	300ml

Ordering No.	Polycrystalline Diamond Suspension	Color	Capacity (ml/bottle)
S0708080402	0.1um	Black	470ml
S0708030402	1um	Black	470ml
S0708040402	3um	Black	470ml
S0708050402	6um	Black	470ml
S0708060402	9um	Black	470ml
S0708070402	15um	Black	470ml

Oxide and Final Suspension

Ordering No.	Aluminum Oxide Suspension	Capacity (ml/bottle)
S0707010902	0.05um	300 ml
S0707020902	0.3um	300 ml

Ordering No.	Final Polishing Suspension	Capacity (ml/bottle)
S0704C10902	0.04um	300 ml

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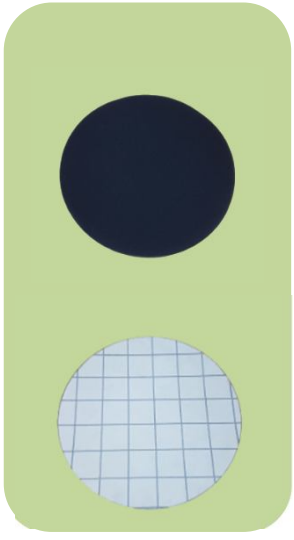
Oxide Powder

Order No.	Aluminum Oxide Powder	Capacity (lb/bottle)
S0701010102	0.05um	1 lb
S07010201	0.3um	1 lb
S07010211	0.3um	2 lb
S07010301	1um	1 lb
S07010311	1um	2 lb
S07010401	3um	1 lb
S07011201	5um	1 lb

Order No.	Magnesium Oxide Powder	Capacity (lb/bottle)
S0705030102	1um	1 lb

Order No.	Magnesium Oxide Powder	Capacity (lb/bottle)
S07061009	0.5um	1 lb
S07061109	1.5um	1 lb

Polishing Cloths



Ordering No.	Nylon Polishing cloth for planar and medium polishing of all materials, such as copper, steel, and alloy	Package (pcs/pack)
S060103	12” (305mm)	10

Ordering No.	Nylon Polishing cloth for planar and medium polishing of all materials, such as copper, steel, and alloy	Package (pcs/pack)
S060203	12” (305mm)	10

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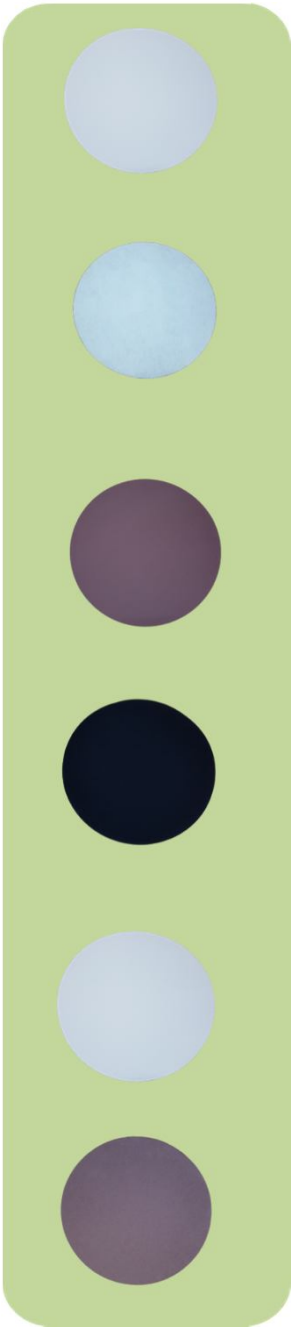
Polishing Cloths



Ordering No.	Pellon Polishing cloth for medium polishing of steel, composite material and rock		Package (pcs/pack)
S060303	12”	(305mm)	10

Ordering No.	Non-Woven Polishing cloth for medium polishing of soft metals, such as copper and aluminum		Package (pcs/pack)
S060403	12”	(305mm)	10

Ordering No.	MicroPad Polishing cloth for medium polishing of all materials, such as aluminum and soft steel		Package (pcs/pack)
S060503	12”	(305mm)	10

Ordering No.	PolyPadL Polishing cloth for fine polishing of metals, such as stainless steel and hard steel		Package (pcs/pack)
S060703	12”	(305mm)	10

Ordering No.	PolyPadH Polishing cloth for fine polishing of metals, such as alloy and stainless steel		Package (pcs/pack)
S060803	12”	(305mm)	10

Ordering No.	FinalPad Polishing cloth for fine polishing of all materials		Package (pcs/pack)
S060903	12”	(305mm)	10

Top Tech distributors

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Agent

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NO. EB2-BM01