

PLATO-E Series

Manual Grinding & Polishing

Easy
Operation

Lightweight
& Practical



*Perfect Surface.
Always*

P20G-2-E/P25G-2-E Series

- Lightweight design
- Superior industrial material body
- Telescopic water set, CW/ CCW control, multiple platen options
- Employing the diamond discs (optional) ensure the flatness
- Easy operation
- Soft start design for the platen

Patent

Introduction & Feature



Dual platens design

Equipped with a grinding platen and a polishing platen, it offers flexible application, allowing different stages of sample processing to be completed on the same equipment. This design not only enhances work efficiency but also enables quick operation switching based on requirements, making it suitable for metallographic sample preparation of various materials, ensuring efficiency and precision throughout the process.

Lightweight design

The body features high durability while remaining relatively lightweight and space-efficient, making it an excellent choice for scientific research and laboratory environments.

Superior industrial material body

It is free of harmful substances and can be recycled under suitable conditions, meeting the modern industry's requirements for sustainable development.

Easy operation

Incorporates a user-friendly design with an intuitive control panel, ensuring that users can quickly become familiar with its operation.



Introduction & Feature

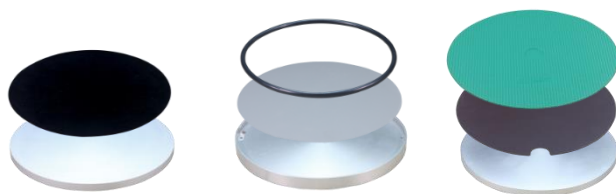
Telescopic water set

The water spray set can be adjusted and extended according to requirements. Whether for cleaning the grinding/polishing platen or tidying up around the machine, users can easily adjust the spray angle and position to achieve comprehensive cleaning results.



Versatile platen options, compatible with various consumables

8" and 10" platens are available, and the platens can be easily replaced, allowing for quick changes of consumables and improved work efficiency. Users can flexibly select discs and consumables according to the actual sample preparation requirements, ensuring optimal results for every operation.



Platen speed and direction adjustable

During the grinding and polishing process, the appropriate rotation speed and platen direction should be adjusted according to the different materials to achieve high-quality sample preparation results.

Employing the diamond discs (optional) ensures the flatness

Further improves the grinding and polishing flatness of samples, especially suitable for high-hardness materials with strict flatness requirements.

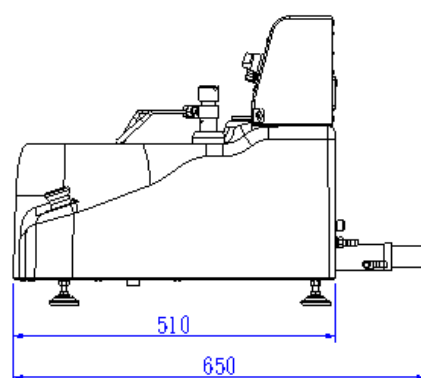
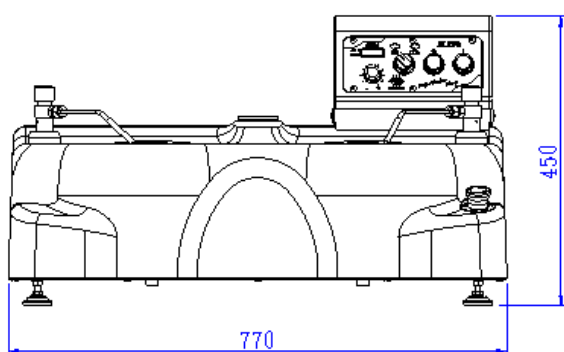


Soft start design for the platen

The soft start design ensures that the platen gradually accelerates upon startup, allowing the rotational speed to reach the set value steadily, thereby protecting the sample from the impact of sudden acceleration.

Specification

Model	P20G-2-E	P25G-2-E
Platen Size (mm)	Ø203.2 (8")	Ø254 (10")
Platen Quantity	2	
Grinding Method	Manual	
Platen Motor Power (W)	250	
Platen Rotational Speed (rpm)	50~600	
Water Inlet (mm)	Inner Dia.: 3/8" (Ø9.53mm), Outer Dia.: 19/32" (Ø15.08mm)	
Water Outlet (mm)	Inner Dia.: 1-19/64" (Ø32.94mm), Outer Dia.: 1-29/64" (Ø36.91mm)	
Machine Dimension WxDxH (mm)	770x650x450	
Power Supply	AC110V/220V 1Ø	
Machine Weight (kg)	34	35
Standard Accessories	Grinding Platen 1pc, O-ring 1pc, Polishing Platen 1pc, Anti-Splash Cover (Standard) 2 pc, Silicon Carbide Paper 8 pcs, Polishing Cloth 2pcs, Aluminum Oxide Powder 100g, 500g Dispenser 1 pc	
Option	PA0108-1-V01 8" Anti-Splash Cover (Flat), PA0108-V01 10" Anti-Splash Cover (Flat), PA0108-3 8" Anti-Splash Cover (Standard), PA0108-4 10" Anti-Splash Cover (Standard), CM0406 Filter Set	



Accessories (Optional)



Item	Spec.	Order no.
Grinding Platen (Patent)	8"	CP0601
	10"	CP0602
Polishing Platen	8"	P20D00020101
	10"	P25A00010201
Magnetic Platen and Paper Hold (Patent)	8"	CP0501
	10"	CP0502

Item	Spec.	Order no.
Anti-Splash Cover (Flat)	8"	PA0108-1-V01
	10"	PA0108-V01
Anti-Splash Cover (Standard)	8"	PA0108-3
	10"	PA0108-4

Item	Spec.	Order no.
Magnetic Pad	8"	S080101
	10"	S080102

Item	Spec.	Order no.
Carrier Plate	8"	S090101
	10"	S090102



Working Table (Optional)



TF01

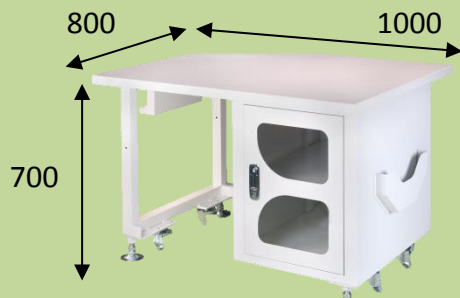
TF02

size(L*W*H)

1000*800*700 mm

1200*1000*700 mm

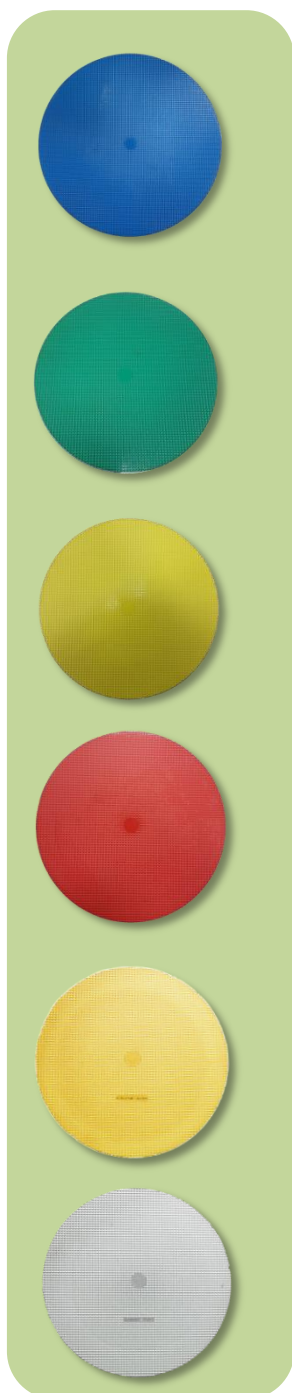
Sample



(mm)

Consumable (Optional)

Diamond Disc



Ordering No.	Description	Magnetic Pad	Package (pc/box)
No. 1	Equivalent to SiC Paper of P120		
SAA09CA54020	8" (203mm)	●	1
SAA09CA54040	10" (254mm)	●	1
No. 2	Equivalent to SiC Paper of P240		
SAA09CA55020	8" (203mm)	●	1
SAA09CA55040	10" (254mm)	●	1
No. 3	Equivalent to SiC Paper of P600		
SAA09CA56020	8" (203mm)	●	1
SAA09CA56040	10" (254mm)	●	1
No. 4	Equivalent to SiC Paper of P1200		
SAA09CA58020	8" (203mm)	●	1
SAA09CA58040	10" (254mm)	●	1
No. 5	Without diamond particles, applied with diamond suspension for polishing (Suitable for general material)		
SAA09CA53020	8" (203mm)	●	2
SAA09CA53040	10" (254mm)	●	2
No. 6	Without diamond particles, applied with diamond suspension for polishing (Suitable for harder material)		
SAA09CA52020	8" (203mm)	●	2
SAA09CA52040	10" (254mm)	●	2

Consumable (Optional)

FEPA P SiC Paper (Plain Back)



	Size	Grain Size	Package (pcs/pack)
Order No.	Φ 200mm SiC Paper		
S0520002	8"(200mm)	P80	100
S0520003	8"(200mm)	P100	100
S0520004	8"(200mm)	P120	100
S0520005	8"(200mm)	P150	100
S0520006	8"(200mm)	P180	100
S0520007	8"(200mm)	P240	100
S0520008	8"(200mm)	P320	100
S0520009	8"(200mm)	P400	100
S0520010	8"(200mm)	P600	100
S0520011	8"(200mm)	P800	100
S0520012	8"(200mm)	P1000	100
S0520013	8"(200mm)	P1200	100
S0520014	8"(200mm)	P1500	100
S0520015	8"(200mm)	P2000	100



	Size	Grain Size	Package (pcs/pack)
Order No.	Φ 250mm SiC paper		
S0525002	10"(250mm)	P80	100
S0525003	10"(250mm)	P100	100
S0525006	10"(250mm)	P180	100
S0525007	10"(250mm)	P240	100
S0525008	10"(250mm)	P320	100
S0525009	10"(250mm)	P400	100
S0525010	10"(250mm)	P600	100
S0525011	10"(250mm)	P800	100
S0525012	10"(250mm)	P1000	100
S0525013	10"(250mm)	P1200	100
S0525014	10"(250mm)	P1500	100
S0525015	10"(250mm)	P2000	100

Consumable (Optional)

ANSI SiC Paper (Plain Back)



	Size	Grain Size	Package (pcs/pack)
Order No.	Φ 200mm SiC Paper		
S0520080060AU	8"(200mm)	#60	100
S0520080120AU	8"(200mm)	#120	100
S0520080180AU	8"(200mm)	#180	100
S0520080240AU	8"(200mm)	#240	100
S0520080320AU	8"(200mm)	#320	100
S0520080400AU	8"(200mm)	#400	100
S0520080600AU	8"(200mm)	#600	100
S0520080800AU	8"(200mm)	#800	100
S0520081000AU	8"(200mm)	#1000	100
S0520081200AU	8"(200mm)	#1200	100



	Size	Grain Size	Package (pcs/pack)
Order No.	Φ 250mm SiC Paper		
S0525100060AU	10"(250mm)	#60	100
S0525100120AU	10"(250mm)	#120	100
S0525100180AU	10"(250mm)	#180	100
S0525100240AU	10"(250mm)	#240	100
S0525100320AU	10"(250mm)	#320	100
S0525100400AU	10"(250mm)	#400	100
S0525100600AU	10"(250mm)	#600	100
S0525100800AU	10"(250mm)	#800	100
S0525101000AU	10"(250mm)	#1000	100
S0525101200AU	10"(250mm)	#1200	100

Consumable (Optional)

FEPA P SiC Paper (PSA Back)



	Size	Grain Size	Package (pcs/pack)
Order No.	Φ 200mm SiC Paper		
S05A20006	8"(200mm)	P180	100
S05A20007	8"(200mm)	P240	100
S05A20008	8"(200mm)	P320	100
S05A20009	8"(200mm)	P400	100
S05A20010	8"(200mm)	P600	100
S05A20011	8"(200mm)	P800	100
S05A20012	8"(200mm)	P1000	100
S05A20013	8"(200mm)	P1200	100
S05A20014	8"(200mm)	P1500	100
S05A20015	8"(200mm)	P2000	100

	Size	Grain Size	Package (pcs/pack)
Order No.	Φ 250mm SiC Paper		
S05A25006	10"(250mm)	P180	100
S05A25007	10"(250mm)	P240	100
S05A25008	10"(250mm)	P320	100
S05A25009	10"(250mm)	P400	100
S05A25010	10"(250mm)	P600	100
S05A25011	10"(250mm)	P800	100
S05A25012	10"(250mm)	P1000	100
S05A25013	10"(250mm)	P1200	100
S05A25014	10"(250mm)	P1500	100
S05A25015	10"(250mm)	P2000	100

Consumable (Optional)

ANSI SiC Paper (Plain Back)



	Size	Grain Size	Package (pcs/pack)
Order No.	Φ 254mm SiC Paper		
S05A25100600AU	10" (254mm)	#600	100
S05A25100800AU	10" (254mm)	#800	100
S05A25101000AU	10" (254mm)	#1000	100
S05A25101200AU	10" (254mm)	#1200	100

Diamond Suspension



Order No.	Monocrystalline Diamond Suspension		
S0703080902	0.1um	300ml	Dark Gray
S0703030902	1um	300ml	Blue
S0703040902	3um	300ml	Green
S0703050902	6um	300ml	Yellow
S0703060902	9um	300ml	Red

Order No.	Polycrystalline Diamond Suspension		
S0708080402	0.1um	470ml	Black
S0708030402	1um	470ml	Black
S0708040402	3um	470ml	Black
S0708050402	6um	470ml	Black
S0708060402	9um	470ml	Black
S0708070402	15um	470ml	Black

Consumable (Optional)

Oxide and Final Suspension



Order No.	Aluminum Oxide Suspension	
S0707010902	0.05um	300 ml
S0707020902	0.3um	300 ml

Order No.	Final Polishing Suspension (Colloidal Silica)	
S0704C10902	0.04um	300 ml

Oxide Powder



Order No.	Aluminum oxide powder	
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	
S0705030102	1um	1 lb

Order No.	Zirconium oxide powder	
S07061009	0.5um	1 lb
S07061109	1.5um	1 lb

Consumable (Optional)

Polishing Cloths

Nylon

	- Flock polishing cloth used for scratch removal, and polishing as high reflective as possible, suitable for most materials - For fine polishing, it is recommended to use 0.3-6μm polishing suspension or colloidal silica.		
	Order No.	Size	Packing
	S060101	Ø8" Ø203mm	10
	S060102	Ø10" Ø254mm	10

Pellon

	- Non-woven, with excellent removal rate and flatness, suitable for steel, composite materials, rocks, etc - For rough and medium polishing, it is recommended to use 6-9μm polishing suspension.		
	Order No.	Size	Packing
	S060301	Ø8" Ø203mm	10
	S060302	Ø10" Ø254mm	10

PolyPadL

	- Polyurethane polishing pads, used for removing stains in chemical mechanical polishing, suitable for various metals and glass - For fine polishing, it is recommended to use colloidal silica.		
	Order No.	Size	Packing
	S060701	Ø8" Ø203mm	10
	S060702	Ø10" Ø254mm	10

PolyPadH

	- Polyurethane polishing pads, used for removing stains in chemical mechanical polishing, suitable for various metals and glass - For fine polishing, it is recommended to use colloidal silica.		
	Order No.	Size	Packing
	S060801	Ø8" Ø203mm	10
	S060802	Ø10" Ø254mm	10

Consumable (Optional)

FinalPad



- Soft fiber synthetic silk used for scratch removal, and polishing as high reflective as possible, suitable for most materials
- For fine polishing, it is recommended to use 0.3-6 μ m polishing suspension or colloidal silica.

Order No.	Size		Packing
S060901	Ø8"	Ø203mm	10
S060902	Ø10"	Ø254mm	10

Woven



- Woven natural fibers, with excellent removal rate and flatness, suitable for most materials
- For rough and medium polishing, it is recommended to use 3-9 μ m polishing suspension.

Order No.	Size		Packing
S061601	Ø8"	Ø203mm	5
S061602	Ø10"	Ø254mm	5

Top Tech distributors



TOP TECH



TOP TECH MACHINES CO.,LTD

No.6-3,Siayuan Rd.,Dali,Taichung,412 Taiwan
TEL: +886-4-2406-3799 FAX: +886-4-2406-0960
E-mail: top@toptech.tw http://www.toptech.tw

Agent

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