

PLATO-E Series

Manual Grinding & Polishing



*Perfect Surface.
Always*

P20G-2-M1/P25G-2-M1 Series

- Flexible and modularized control box maximizes the space utilization
- Telescopic water set, rinse and spin, and CW/ CCW control
- Employing diamond discs (Optional) ensures the flatness
- Compatible with dispenser (Optional)
- Safe and convenient grinding arm is suitable for various samples

Patent

Introduction & Feature



Superior industrial material body

Exquisite Appearance

Streamline appearance design and glossy film surface finishing makes the mechanical appearance artistic and exquisite.

Modular design

The combined control box can be fixed behind the machine or be placed next to the machine with quick-change design, which is easy to clean and can maximize the space.

Various Anti-splash design

Various anti-splash covers can be applied based on the method of polishing process.

Various choices of platen

Platen size of 8" and 10" are suitable for any consumables application.

Automatic drying function

The automatic drying function makes the cleaning process more fast. Also, avoid the crossing contamination during the operating process.

Platen speed and direction adjustable

Adjust the platen speed and direction based on the sample materials.

Versatile M1 sample-fix arm

Grinding by assistant handle
Z-axis adjustable (with fixed design)
Horizontally moveable (with fixed design)
Rapid changing design for sample holders



Low speed grinding and polishing function

Rotational speed can be lowered to 10 rpm.
With external dispenser (optional), it meets the requirement of long-time polishing process without deformation.

Telescopic water set

Clean the machine conveniently



Accessories (Optional)



Grinding Platen



Polishing Platen



Magnetic Platen
and Paper Hold



Anti-Splash Cover
(Manual)



Anti-Splash Cover
(Auto)



Anti-Splash Cover
(Full Cover)



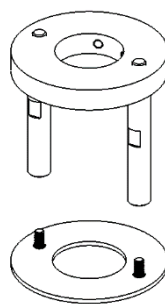
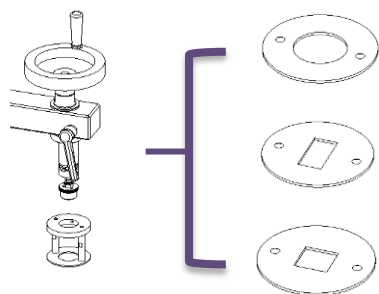
Item	Order no.
Dispenser-one bottle type	P20F0027
Dispenser-four bottle type	P20F0028

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 (Manual)	8"	PA0108-1
	10"	PA0108
Anti-Splash Cover (Auto)	8"	PA0108-3
	10"	PA0108-4
Anti-Splash Cover (Full Cover)	-	PA0108-2
Anti-Splash Cover (Movable)	-	PA0110A

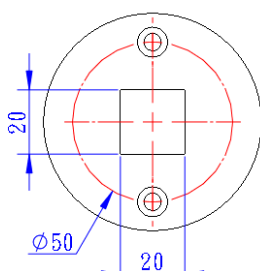
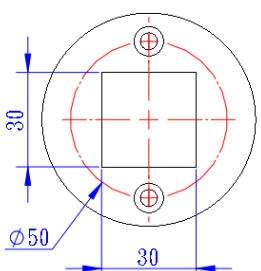
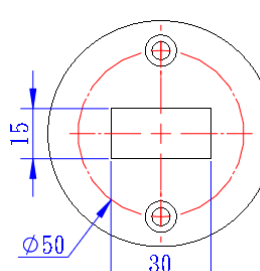
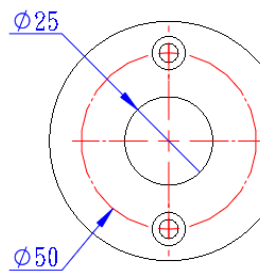
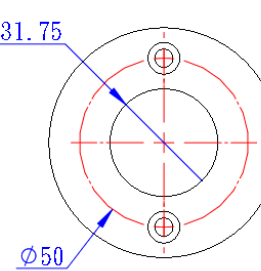
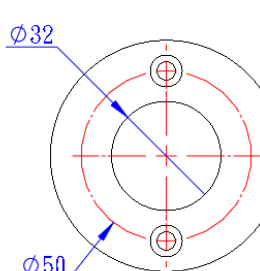
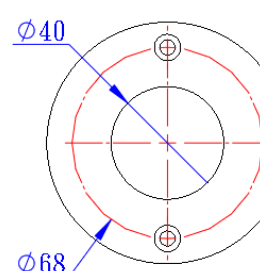
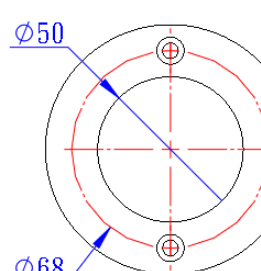
Item	Spec.	Order no.
Magnetic Pad	8"	S080101
	10"	S080102

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



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 $\phi 40$ and $\phi 50$ can not be applied to other sizes of sample holders.

Working Table (Optional)



TF01

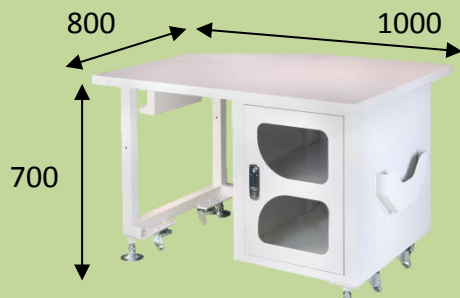
TF02

size(L*W*H)

1000*800*700 mm

1200*1000*700 mm

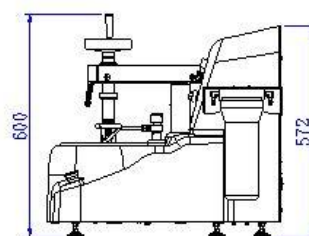
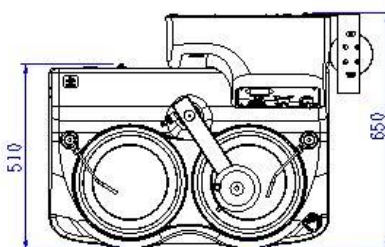
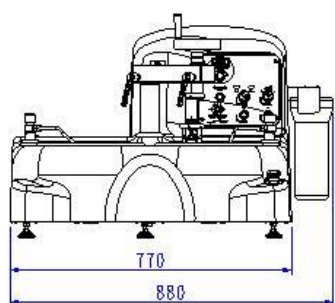
Sample



(mm)

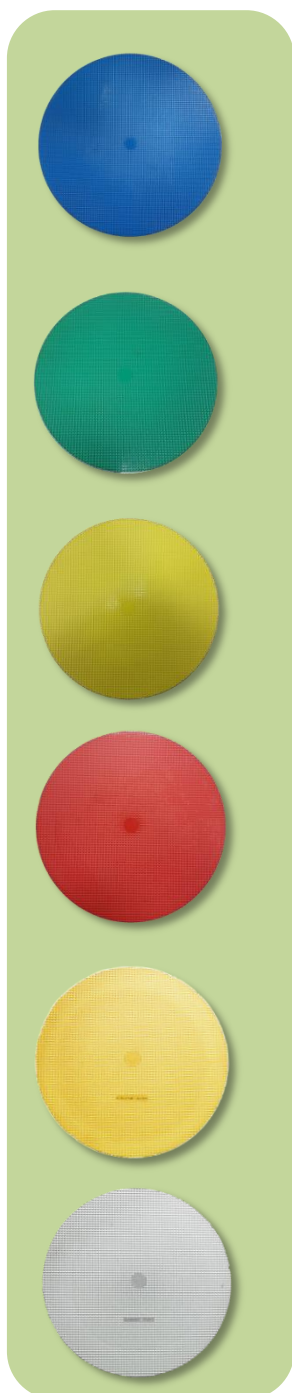
Specification

Model	P20G-2-M1	P25G-2-M1
Platen Size (mm)	Ø203.2 (8")	Ø254 (10")
Platen Quantity	2	
Grinding Method	Manual (Auxiliary Sample Holder)	
Grinding Quantity	1	
Sample Size (mm)	Ø25/Ø32/Ø40/Ø50 (Special sample size can be customized)	
Platen Motor Power (W)	400	
Platen Rotational Speed (rpm)	1~600 (Effective Rotational Speed 10~600)	
Timer (min: s)	99:59	
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)	880x650x600	
Machine Weight (kg) AC110V 1Ø	76	78
Machine Weight (kg) AC220V 1Ø	66	68
Standard Accessories	Grinding Platen 1 pc, O-Ring 1 pc, Polishing Platen 1 pc, Anti-Splash Cover 4 pcs, Silicon Carbide Paper 8 pcs, Polishing Cloth 2pcs, Aluminum Oxide Powder 100g, Filter 1 set, 500g Dispenser 1 pc	
Option	P20F0027 Dispenser Set for One Bottle, P20F0028 Dispenser Set for Four Bottles, PA0108-1 8" Anti-Splash Cover (Manual), PA0108 10" Anti-Splash Cover (Manual), PA0108-3 8" Anti-Splash Cover (Auto), PA0108-4 10" Anti-Splash Cover (Auto), PA0108-2 Anti-Splash Cover (Full-Cover), PA0110A Anti-Splash Cover (Movable)	



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 1-6μm diamond 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 diamond 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 1-6 μ m diamond 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 diamond suspension.

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

Top Tech distributors



TOP TECH



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Agent

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