TOP TECH

PLATO-E Series

Manual Grinding & Polishing

45 dB
Silent Type

Perfect Surface. Always

P20G-1-M1/P25G-1-M1 Series

Patent

- 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

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Introduction & Feature

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 faster. Also, avoid the crossing contamination during the operating process.

Superior industrial material body

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

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Accessories (Optional)

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

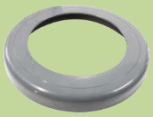
Grinding Platen

Polishing Platen

Magnetic Platen and Paper Hold

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

Anti-Splash Cover (Manual)



Anti-Splash Cover (Auto)

Anti-Splash Cover (Full Cover)

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

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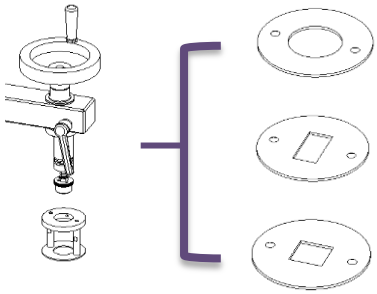
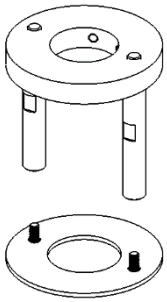
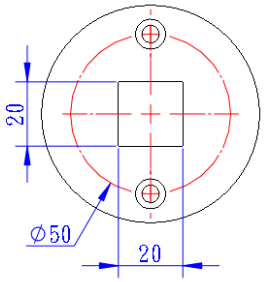
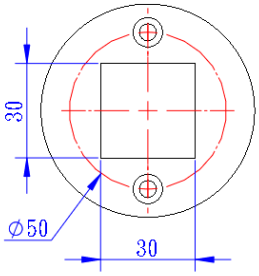
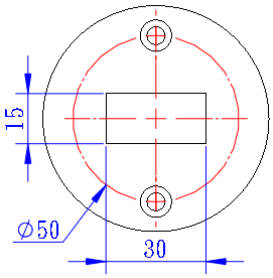
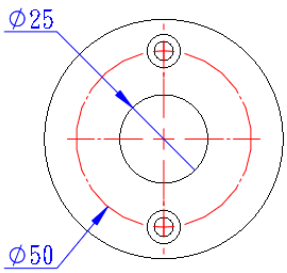
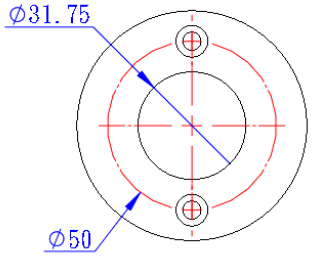
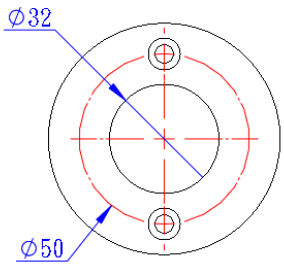
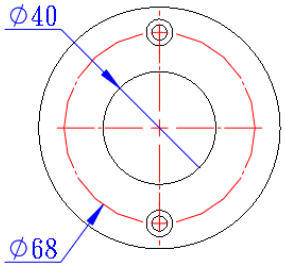
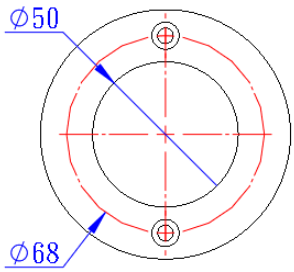




Holder set

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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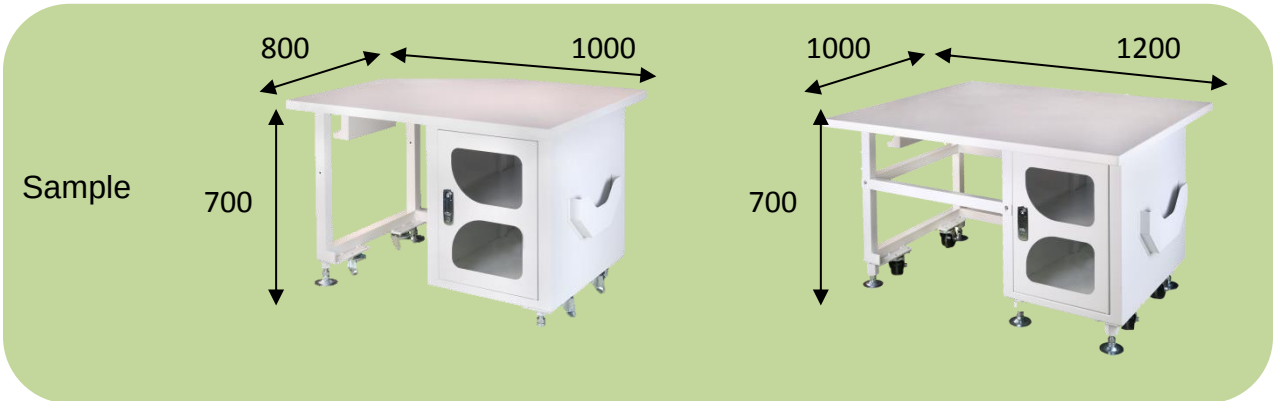
Working Table (Optional)

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



(mm)

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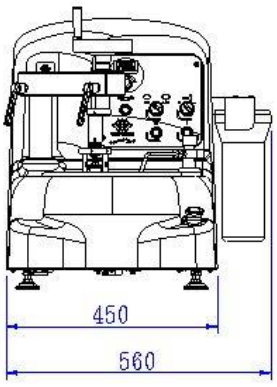
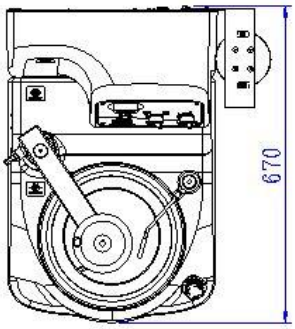
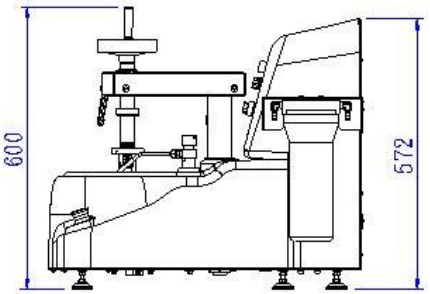
Specification

Model	P20G-1-M1	P25G-1-M1
Platen Size (mm)	Ø203.2 (8”)	Ø254 (10”)
Platen Quantity	1	
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)	560x670x600	
Machine Weight (kg) AC110V 1Ø	57	58
Machine Weight (kg) AC220V 1Ø	47	48
Standard Accessories	Grinding Platen 1pc, O-ring 1pc, Anti-Splash Cover 2 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)	







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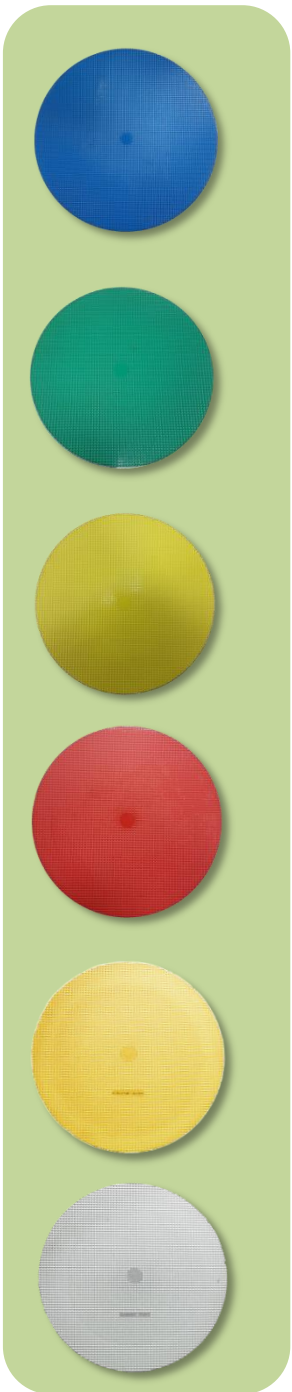
Consumable (Optional)

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

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Consumable (Optional)

FEPA P SiC Paper (Plain Back)

Order No.	Size Φ 200mm SiC Paper	Grain Size	Package (pcs/pack)
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

Order No.	Size Φ 250mm SiC paper	Grain Size	Package (pcs/pack)
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

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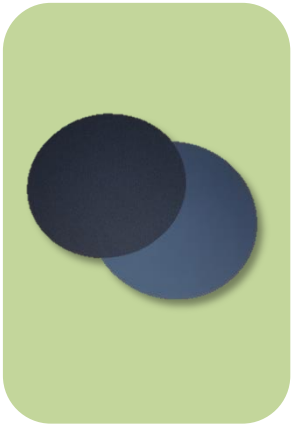
Consumable (Optional)

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

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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

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Consumable (Optional)

ANSI SiC Paper (Plain Back)

Order No.	Size	Grain Size	Package (pcs/pack)
	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

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Consumable (Optional)

Oxide and Final Suspension

Oder 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

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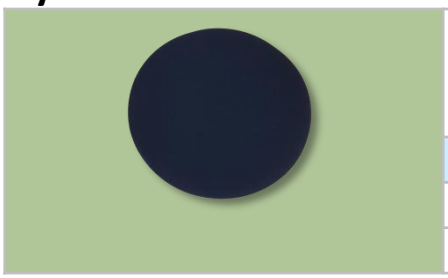
Consumable (Optional)

Polishing Cloths

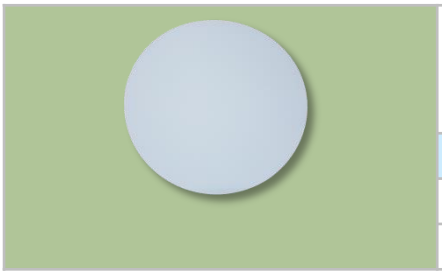
Nylon



- 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

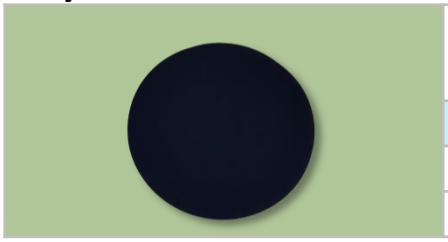
Pellon



- 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

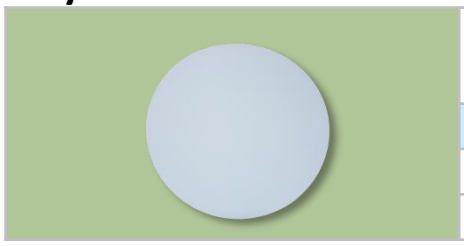
PolyPadL



- 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

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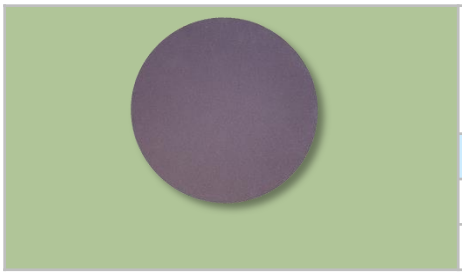
Consumable (Optional)

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 1-6μm 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 3-9μm diamond suspension.

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

Top Tech distributors

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Agent

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