



TOP TECH

# PLATO-R SERIES

## Air-Pressure Grinding & Polishing



### P20G-1-R6 series

- 7" HMI touch panel
- Individual force (Standard)
- Individual micro force (Optional)
- Central force (Optional)
- Variable rotational speed and adjustable rotational direction for platen and head
- 10 memory modes for recording application parameters
- Automatic and programmable dispenser (Optional)

*Perfect Surface.  
Always*

**Patent**

## Introduction & Feature



### Multi-functional control panel

It is equipped with a high-quality color touch panel, intuitive human-machine interface, and 10 modules of parameter memory function.

### Rotational speed of the head is adjustable

The grinding head is equipped with brushless motor with rotation speed from 10~170rpm.



### Automatic drying function

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

### Overload protection

When the total force is more than the default setting during operation, the machine will stop automatically.

### Low speed grinding and polishing function

Rotational speed can be lowered to 1 rpm. With external dispenser (optional), it meets the requirement of long-time polishing process without deformation.

### Dispenser (Optional)

Users can control the dispenser by setting up the parameters on control panel.



### Sample Pistons

Sample pistons will lower down lightly to prevent the surface of the specimen from damage.



### 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 maintenance and can maximize the space.

### Individual pressure

Pressing force is between 0.5~6kg. The suggested pressure and amount of samples are marked on the grinding head.

### Individual micro force (Optional)

Pressing force is between 0.2~1kg. Suitable for the specimen, requiring the micro force pressing during grinding/polishing.

### Central force (Optional)

Pressing force is between 3~12 kg. Quick-released sample holder simplifies the leveling process and cleaning process.

### Various Anti-splash application

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

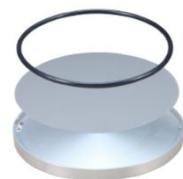
### Superior industrial plastic body

### Exquisite Appearance

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

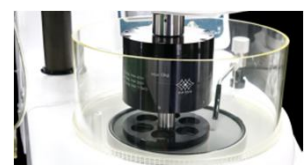
### Various choices of platen

Platens with size 8" and 10" are suitable for any kinds of consumables .



### Telescopic water set and air pressure gun

The machine can be cleaned conveniently.



## Accessories (Optional)



Grinding Platen



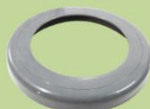
Polishing Platen



Magnetic Platen and Paper Hold



Anti-Splash Cover (Manual)



Anti-Splash Cover (Auto)



Anti-Splash Cover (Full Cover)



Item	Order No.
Dispenser Set	PA1-F1-04A
Dropping Bottle	Y09006

Item	Order No.
Dosing System	P20F0026A

Item	Size	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	Size	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	Size	Order No.
Magnetic	8"	S080101
	10"	S080102



Item	Size	Order No.
Carrier Plate	8"	S090101
	10"	S090102

**Precise Light Force (0.2~1kg)**

Size (mm)	Sample Quantity	Order No.
Ø25	6	PA1-D2-625
Ø25.4	6	PA1-D2-625.4
Ø31.75	6	PA1-D2-631.75
Ø32	6	PA1-D2-632
Ø38.1	3	PA1-D2-338.1
Ø40	3	PA1-D2-340

**Platen 250mm only**

Ø38.1	4	PA1-D2-438.1
Ø40	4	PA1-D2-440
Ø50	4	PA1-D2-450

**Central Force (3~12kg)**

Size (mm)	Sample Quantity	Order No.
Ø25	6	PA1-D3-625
Ø25.4	6	PA1-D3-625.4
Ø31.75	6	PA1-D3-631.75
Ø32	6	PA1-D3-632
Ø38.1	3	PA1-D3-338.1
Ø40	3	PA1-D3-340

**Platen 250mm only**

Ø38.1	4	PA1-D3-438.1
Ø40	4	PA1-D3-440
Ø50	4	PA1-D3-450

**Working Table (Optional)**



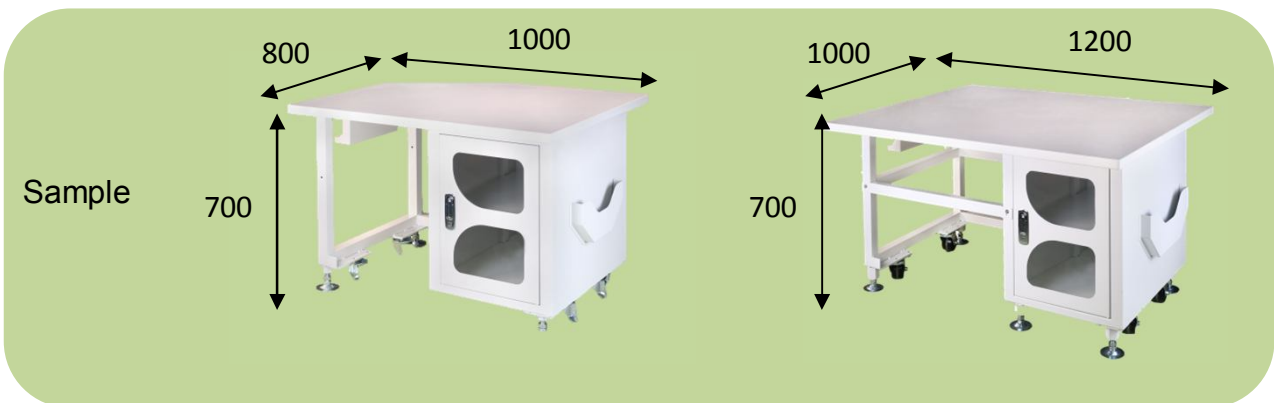
TF01

TF02

size(L\*W\*H)

1000\*800\*700 mm

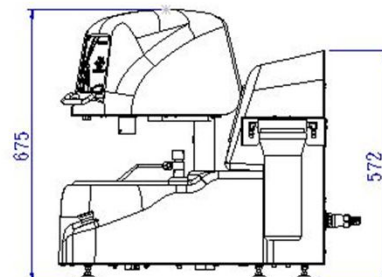
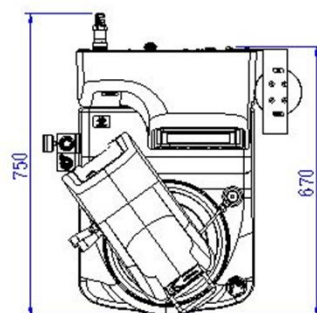
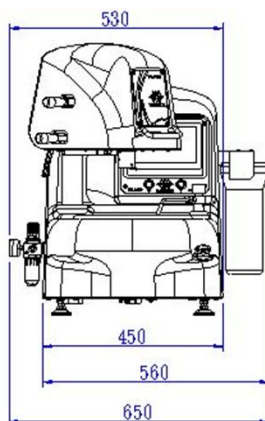
1200\*1000\*700 mm



(mm)

## Specifications

Model	P20G-1-R6	P20G-1-R3	P25G-1-R6	P25G-1-R3	P25G-1-R4
Platen Size (mm)	Ø203.2 (8")		Ø254 (10")		
Platen Quantity	1				
Sample Size / Quantity	Ø25mm, Ø25.4mm, Ø30mm, Ø31.75mm, Ø32mm/6pcs Ø38.1mm, Ø40mm/3pcs		Ø25mm, Ø25.4mm, Ø30mm Ø31.75mm, Ø32mm/6pcs Ø38.1mm, Ø40mm/3 or 4pcs Ø45mm, Ø50mm/4pcs		
Individual Force	0.5~2kg 6 pcs,		0.5~4kg 3 pcs,		0.5~6kg 2 pcs,
Max. Grinding Quantity	Max. 12kg in total				
Precision Individual Micro Force (kg)	0.2~1 (Optional)				
Central Force (kg)	3~12 (Optional)				
Platen Motor Power (W)	400				
Platen Rotational Speed (rpm)	1~600				
Head Motor Power (W)	50				
Head Rotational Speed (rpm)	10~170				
Timer (hr:min:s)	99:59:59				
Memory Mode (set)	10 (Time, force, platen speed and head speed can be set)				
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)	650x670x675				
Machine Weight (kg) AC110V 1Ø	73		74		
Machine Weight (kg) AC220V 1Ø	63		64		
Standard Accessories	Grinding Platen 1pc, O-ring 1pc, Anti-Splash Cover 2pcs, Silicon Carbide Paper 8pcs, Polishing Cloth 2pcs, Aluminum Oxide Powder 100g, Filter 1set, PU Pipes 6 m, Air Pressure Gun 1set, 500g Dispenser 1pc				
Option	PA1-F1-04A Dispenser Set, 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), P20F0026A Dosing System				



## Consumables (Optional)

### Diamond Disc



Order no.                      size                                      Magnetic Pad                      Pack(pcs/box)

Order no.	size	Magnetic Pad	Pack(pcs/box)
Disc no.1	Equivalent to the grinder paper #120		
SAA09CA54020	8"(200mm)	●	1
SAA09CA54040	10"(250mm)	●	1

Disc no.2	Equivalent to the grinder paper #240		
SAA09CA55020	8"(200mm)	●	1
SAA09CA55040	10"(250mm)	●	1

Disc no.3	Equivalent to the grinder paper #600		
SAA09CA56020	8"(200mm)	●	1
SAA09CA56040	10"(250mm)	●	1

Disc no.4	Equivalent to the grinder paper #1200		
SAA09CA58020	8"(200mm)	●	1
SAA09CA58040	10"(250mm)	●	1

Disc no.5	Non-diamond particles, used with diamond suspension For the normal materials		
SAA09CA53020	8"(200mm)	●	2
SAA09CA53040	10"(250mm)	●	2

Disc no.6	Non-diamond particles, used with diamond suspension For the hard and very hard materials		
SAA09CA52020	8"(200mm)	●	2
SAA09CA52040	10"(250mm)	●	2



## FEPA Grinding Paper (Plain Back)



Order No.	Size	Grit	Pack (pcs/box)
	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



Order No.	Size	Grit	Pack (pcs/box)
	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

## ANSI Grinding Paper (Plain Back)



Order No.	Size	Grit	Pack (pcs/box)
	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



Order No.	Size	Grit	Pack (pcs/box)
	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

## FEPA Grinding Paper (PSA Back)



Order No.	Size	Grit	Pack(pcs/box)
	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

Order no.	Size	Grit	Pack(pcs/box)
	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

## 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

## Polishing Cloth

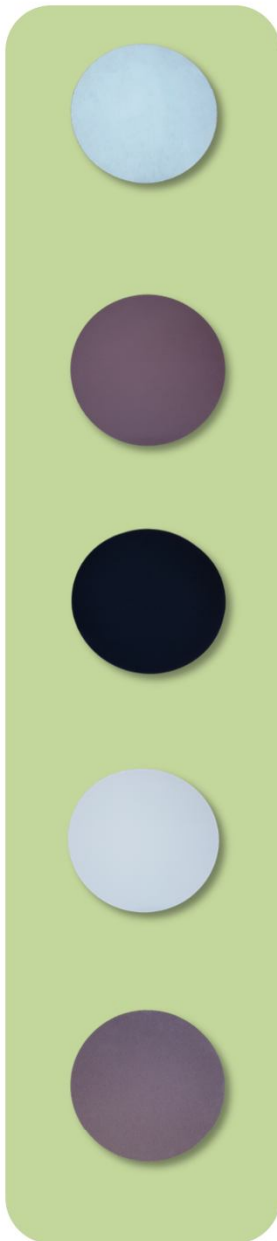


Order no.	Nylon For plane and medium polishing of all materials, such as copper, steel, and alloy		Pack(pcs/box)
S060101	8"	(200mm)	10
S060102	10"	(250mm)	10

Order no.	PolyPad For plane and medium polishing of all materials of metals, such as stainless steel and hard steel		Pack(pcs/box)
S060201	8"	(200mm)	10
S060202	10"	(250mm)	10

Order no.	Pellon For medium polishing of steel, composite material and rock		Pack(pcs/box)
S060301	8"	(200mm)	10
S060302	10"	(250mm)	10

## Polishing Cloth



Order no.	Non-Woven For medium polishing of soft metals, such as copper and aluminum		Pack(pcs/box)
S060401	8"	(200mm)	10
S060402	10"	(250mm)	10

Order no.	MicroPad For medium polishing of all materials, such as aluminum and soft steel		Pack(pcs/box)
S060501	8"	(200mm)	10
S060502	10"	(250mm)	10

Order no.	PolyPadL For fine polishing of metals, such as stainless steel and hard steel		Pack(pcs/box)
S060701	8"	(200mm)	10
S060702	10"	(250mm)	10

Order no.	PolyPadH For fine polishing of metals, such as alloy and stainless steel		Pack(pcs/box)
S060801	8"	(200mm)	10
S060802	10"	(250mm)	10

Order no.	FinalPad For fine polishing of all materials		Pack(pcs/box)
S060901	8"	(200mm)	10
S060902	10"	(250mm)	10

## Diamond Suspension



Order no.	Monocrystalline diamond suspension		
S0703080902	0.1um	300ml	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
S0708030902	1um	300ml	Milky
S0708030402	1um	470ml	Black
S0708040402	3um	470ml	Black
S0708050402	6um	470ml	Black
S0708060402	9um	470ml	Black
S0708070402	15um	470ml	black

## Oxide and Final Suspension



Order no.	Aluminum oxide suspension	
S0707010902	0.05um	300 ml
S0707020902	0.3um	300 ml

Order no.	Final polishing suspension	
S0704C10902	0.04um	300 ml

# 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

We reserve the right to change design without notice.

**NO. EB1-BM02**