TOP TECH

Manual Grinder/Polisher

F-M1/FR-M1

https://toptech1.ru

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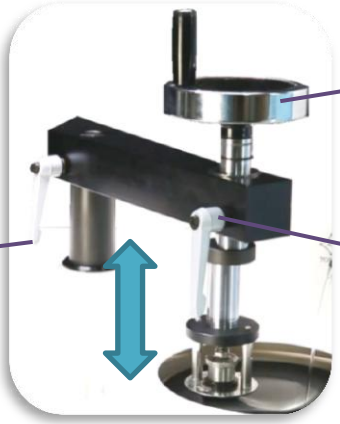
Instruction

Operation video



Assistant handle
Rotate to grinding and polishing

Handle lock
Both left and right position can be used

Handle lock
Handle height can be adjusted

Patent grinding plate
Fix silicon carbide paper easy and quickly

Dual plate design
Head easy to swing both sides. Separate polish/grinding to enhance preparation efficiency.

Rotational direction
Plate can rotate in both Clockwise/anti-clockwise

Aluminum polishing platen
Fix polishing cloth easy and quickly

Variable rotational speed
Adjust the speed according to different sample material

High efficiency motor
Low rotational speed with high torque ensure precision

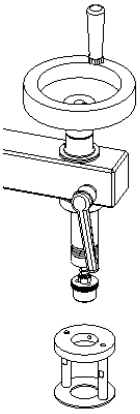
Digital rotational speed display
Specific speed can be read

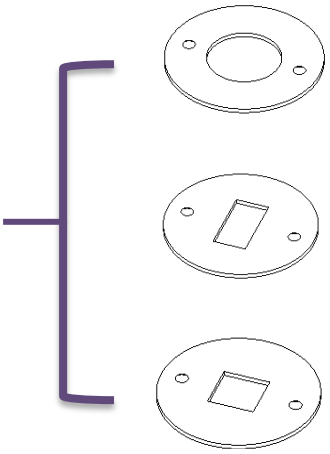
Features

P20F0027
Dispenser
one bottle type

P20F0028
Dispenser
four bottle type

Option





Please consult
Appendix 1 and Appendix 2

Spec.	Order no.
Ø203.2	D321.001
Ø254	D322.001
Ø304	D323.001

Patent grinding plate

or

Spec.	Order no.
Ø203.2	P20D00020101
Ø254	P25A00010201
Ø304	P30E010503

Polishing platen

Spec.	Order no.
Ø203.2	CP0501
Ø254	CP0502
Ø304	CP0503

Patent magnetic
platen set

Option

Anti-splash cover
Light and beauty

Quick connecter
Main power switch
Built-in fuse wire devices

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Worthy Options - Working Table

Working Table
Multifunctional working table, it supplies you a place to put your machine and store your accessories. It can be moved easily.

Model No.	TF01	TF02
Size	1000*800*700 mm	1200*1000*700 mm
Sample		

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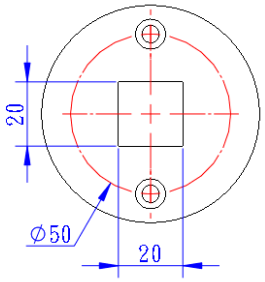
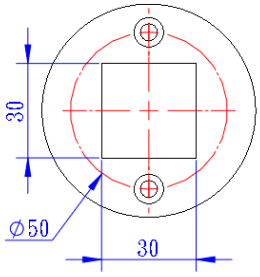
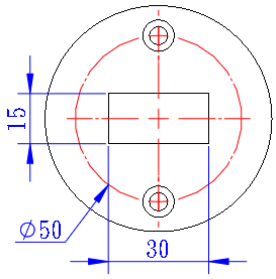
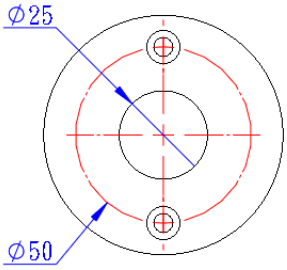
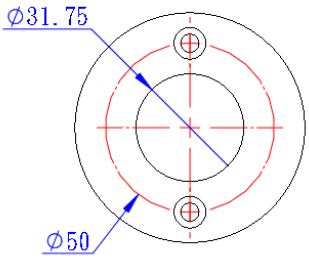
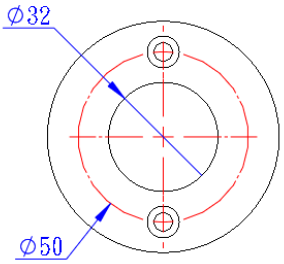
Specifications

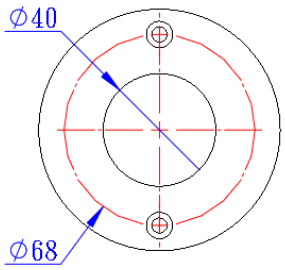
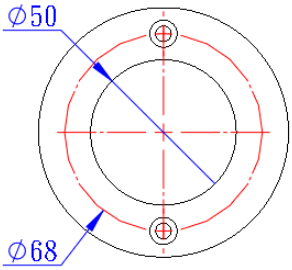
Model No.	F-M1			FR-M1		
Platen dia. (mm)	Ø203.2mm(8")	Ø254mm(10")	Ø304.8mm(12")	Ø203.2mm(8")	Ø254mm(10")	Ø304.8mm(12")
Platen qty.	1			2		
Operation method	Manual			Automatic		
Sample size	Ø20/Ø25/Ø30 mm (Appendix 1)			Ø20/Ø25/Ø30 mm (Appendix 1)		
	Ø40/Ø50 mm (Appendix 2)			Ø40/Ø50 mm (Appendix 2)		
Noise Level (idling)	47~53dB	49~55dB	52~57dB	50~55dB	52~58dB	54~59dB
Motor power	250W			250W		
Rotational speed	50~600rpm (Special speed can customized)			50~600rpm (Special speed can customized)		
Coolant system	1 set			2 set		
Machine type	Table-top			Table-top		
Machine weight	41Kg			58Kg		
Dimension (WxDxH)	45x65x60cm			75x69x64cm		
Water inlet pipe	10mm pipes (inner dia.Ø10mm—Outer dia.Ø15mm)					
Water outlet pipe	26mm pipes (inner dia.Ø26mm—Outer dia.Ø30mm)			32mm pipes (inner dia.Ø32mm—Outer dia.Ø36mm)		
Power supply	AC110V/220V-1 Ø			AC110V/220V-1Ø		
Standard accessories	Grinding plate 1pc	O-ring 1pc		Grinding plate 1pc	O-ring 1pc	
	Anti-splash cover 1pc	Silicon carbide papers 8pc		Polishing 1pc	Anti-splash cover 2pc	
	Abrasive polishing clothe 2pc	Aluminum oxide powder 100g		Silicon carbide papers 8pc	Abrasive polishing clothe 2pc	
	500g dispenser 1pc	-		Aluminum oxide powder 100g	500g dispenser 1pc	

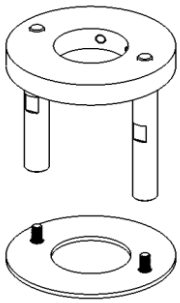
We reserve the right of changing design without notice

Appendix 1、Sample holder set

P20K0021A Sample holder (20x20mm)	P20K0021B Sample holder (30x30mm)	P20K0021C Sample holder (30x15mm)
		
P20K0021D **Sample holder (25mm)**	**P20K0021E** **Sample holder (31.75mm)**	**P20K0021** **Sample holder (32mm)**
		

Appendix 2、Sample holder set

P20K0022 Sample holder (40mm)	P20K0023 Sample holder (50mm)
	



Sample holder base

Sample holder platen

Remark: (Appendix 1) and (Appendix 1).

Specific sample holder platen can only use with Specific sample holder base.

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Consumables

	Model	Spec.	Materials
Grinding	Platinum diamond discs	No.1、No.2 No.3、No.4	The discs are suitable to grind a wide range of ferrous metal as well as copper and other metals.
	Silicon carbide papers (PSA backed)	#60~#2000	Made in Taiwan (Good values for money) Made in USA (Perfect quality)
	Silicon carbide papers (Plain backed)	#180~#2000	Made in Taiwan (Good values for money) Made in USA (Perfect quality)
Polishing (Diamond)	Poly-crystalline suspension	1μm、3μm、6μm 、9μm、15μm	Diamond is the best way for the grinding to obtain a perfect surface in the short time.
	Bio Diamante Poly-crystalline suspension	1μm、3μm 6μm、9μm	Bio Diamante series, which is with higher viscosity and useless consumption during grinding. The liquid to stay a long time on the surface of sample, it is suitable for low usage.
	Mono-crystalline suspension	0.5μm、1μm、3μm 6μm、9μm、15μm	Diamond is the best way for the grinding to obtain a perfect surface in the short time.
	Bio Diamante Poly-crystalline suspension	1μm、3μm 6μm、9μm	Bio Diamante series, which is with higher viscosity and useless consumption during grinding. The liquid to stay a long time on the surface of sample, it is suitable for low usage.
	Diamond paste	1μm、3μm 6μm、9μm	Use before diamond suspension It content higher percentage of diamond and offer better abrasive ability than suspension
Polishing (Oxide)	Aluminum oxide powder	0.05μm、0.3μm 1μm、3μm、5μm	The soft, toughness specimens like aluminum, copper or PCB board are requested to do the final polishing by oxide particles to get perfect results.
	Final polishing suspension	0.05μm、colloidal solution	Aluminum oxide is suitable for the application of low alloy steel, high alloy steel and plastic material.
Polishing	Polishing cloth	Rough polishing、fine polishing	The initial polishing is usually conducted with short hair polishing cloth, and the long-hair polishing cloth is used at the step of final polishing.

Remark: Welcome to get the more detail information of consumables in the follow link

http://toptech.synology.me/Consumables/PolisherEN.pdf

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Perfect Surface. Always

Cutting / Mounting / Grinding & Polishing / Spin Coater

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