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METALLOGRAPHY SPECIMEN

GRINDING & POLISHING MACHINE

รวมแคตตาล็อก

เครื่องขัดชิ้นงานละเอียด

คุณภาพสูง

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Head Automatic

SPECIMEN GRINDING & POLISHING

MPT-1 (HEAD)



หัวเครื่องขัดชิ้นงานละเอียด

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Head Automatic SPECIMEN GRINDING & POLISHING MPT-1 (HEAD)

Standart Accessories

200 mm aluminium top discs and magnets:(2 pcs)

Stainless steel discs (5 pcs), flexible water hose and control valves, flexible water hose for drain connection.

Self adhesive emery paper (220 grit):10 pcs

Self adhesive emery paper (400 grit):10 pcs

Self adhesive emery paper (600 grit):10 pcs

Self adhesive emery paper (800 grit):10 pcs

Self adhesive polishing cloth:10 pcs

Diamond paste (3-6 microns):1

Alumina suspension (500 gr):1



Technical Specifications

- Power: 200V or 380V 50Hz
- Rotate Speed : 50 rpm
- Sample force : 0-40N
- Sample capacity : 1-3

▶ หัวเครื่องขัดชิ้นงานละเอียด

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Head Automatic

SPECIMEN GRINDING & POLISHING

MPT-E (HEAD)



▶ หัวเครื่องขัดชิ้นงานละเอียด

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Head Automatic

SPECIMEN GRINDING & POLISHING

MPT-E (HEAD)

Application and Feature

This MPT-E polishing and grinding head is designed according to investigation and researches on the market and customers' requirements. MPT can prepare one, two or three samples at one time. It can be fixed onto many models of polishing and grinding machines produced by us, such as MP-2 (E), MP-2B (E), MP-1C, and MP-1S etc. It is easy-to-use, and the quality of finished sample is high. MPT-E is an ideal option for the lab of factories, science and research institutions and universities, which can prepare sample by unmanned operation and increase the efficiency.



Technical Specifications

- Power: Single phase, 220V, 50Hz or three phases, 380V, 50HZ
- Rotate speed: 50 rpm
- Sample force: 0-40N
- Sample capacity: 1-3

▶ หัวเครื่องขัดชิ้นงานละเอียด

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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

P-1

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Main features

Model P-1 Metallographic specimen polishing machine is suitable for the polishing of the specimen which has been grinded. The specimen surface is very smooth after processing and can be used to observe and measure the metallographic structure of specimen under microscope.

specifications

- Diameter of polishing disc : \varnothing 200mm
- Polishing disc rotating speed : 1400rpm
- Motor power : 180W
- Power supply : Single phase, 220V, 50Hz
- Dimensions : 45x39x28cm
- Net weight : 16Kg



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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

M-1

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Main features

Model M-1 Metallographic specimen pre-grinding machine is a kind of single disc bench type machine which is suitable for the rough grinding, and fine & half fine grinding of the specimen. The machine is equipped with water cooling system which can realize the cooling into the specimen when grinding, and this will prevent the metallographic organization of sample from being damaged. This machine features convenient operation, stable and reliable performance. It is ideal sample preparing equipment to be used in factories, researching institutes and college laboratories.

specifications

- Diameter of grinding disc : \varnothing 230mm
- Diameter of abrasive paper : 200mm
- Grinding disc rotating speed : 700rpm
- Power supply : Single phase, 220V, or 380V, three phases, 50Hz
- Dimensions : 450 x 390 x 580mm
- Net weight : 16Kg



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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

MP-1B

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Application and Feature

MP-1B Metallographic Specimen Grinding & Polishing Machine is equipped with single disc and features stepless speed changing grinding and polishing.

The rotating speed of grinding and polishing disc is adjustable from 50 to 1000 rpm.

It can realize the whole process of rough grinding, fine grinding, rough polishing and finishing polishing for specimen preparing. This machine features easy operation and economical applying.

It is the ideal specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.

specifications

- Digital display of rotating speeds of grinding and polishing disks
- Power supply: 220V, 50Hz
- Diameter of grinding disk : Φ 230mm, rotating speed 50-1000 rpm
- Diameter of polishing disk : Φ 200mm, rotating speed 50-1000 rpm
- Diameter of sand paper: Φ 200mm
- Motor: YSS7124, 550W
- Dimensions : 65 x 37 x 31 cm
- Net weight: 30Kg



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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

MP-1C

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Application and Feature

- Stepless speed changing from 50 to 1000 rpm
- This model is designed and manufactured as per international advanced specimen preparing technology.
- Equipped with beautiful appearance machine shell and full stainless steel parts which never rust.

specifications

- Rotating speed of working disc : 50-1000 rpm (stepless speed changing)
- Diameter of grinding disc : 230mm
- Diameter of polishing disc : 200mm
- Diameter of abrasive paper : 200mm
- Power supply : single phases, 220V, 50Hz
- Motor power : YSS7124, 550W
- Dimensions : 70 x 60 x 28cm
- Net weight : 35Kg



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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

MP-1S

1.

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Application and Feature

MP-1S is a newly designed touch screen type metallographic specimen grinding and polishing machine which is equipped with single disc and features stepless speed changing. It can realize the whole process of rough grinding, fine grinding, rough polishing and finishing polishing for specimen preparing. This machine features easy operation and economical applying. It is the ideal specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.



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SPECIMEN GRINDING & POLISHING

MP-1S

2.

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Main features

- Touch type LCD screen operation. Rotating speed is displayed on LCD directly
- Grinding and polishing time is adjustable from 0 to 1000 seconds
- There are two working conditions for this model : the stepless speed changing status or four-level constant speed status. The working condition can be switched from one to another easily
- The rotating direction of working disc can be chosen at will
- Four-level constant speed : 150, 300, 600, 800 rpm
- Stepless speed changing from 50 to 1000 rpm
- This model is designed and manufactured as per international advanced specimen preparing technology
- Equipped with beautiful appearance machine shell and stainless steel parts which never rust



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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

MP-1S

3.

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specifications

- Rotating speed of working disc : 50-1000 rpm (stepless speed changing) and 150/300/600/800 rpm (four-level constant speed)
- Diameter of working disc : 200/250mm
- Power supply : single phases, 220V, 50Hz
- Motor power : YSS7124, 550W
- Dimensions : 730 x 450 x 370cm
- Net weight : 34Kg



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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

METAPOL-1250X

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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

METAPOL-1250X

www.itokin2000.com

2.



Main features

- Multi-usage, metallographic specimen of coarse grinding, fine grinding, coarse and fine polishing, one machine to complete
- Grinding disc diameter: 254 mm, compare to ordinary grinding disc, effective area increased by 60%
- Manual mode: three-level constant speed mode and variable speed mode
- Three level constant speeds: customer can define three common speeds for pre-grinding, grinding and polishing
- Variable speed mode: grinding speed 60-1000n/min
- Automatic mode: Eight sections programmable control, automatically stop, convenient for customer getting metallographic sample
- Easily replace magnetic anti-sticking dish, can make all kinds of sample of coarse and fine grinding, coarse and fine polishing all process
- Optional work rotating direction: counterclockwise and hour hand is optional
- By using the electromagnetic valve to control the water on and off
- Increase the automatic grinding head, can be upgraded to automatic polishing machine, automatic processing of six samples at the same time
- Beautiful outlook and good quality



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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

METAPOL-1250X

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3.

specifications

- Speed: 0-1000 r/min (customized)
- Disc diameter: 254mm (Optional 230, 220, 203mm)
- Power: 550W, 220V, 60/50Hz
- Overall Dimensions: 760×410×330mm
- Net weight: 40Kg



STANDARD ACCESSORY

Name	Quantity	Name	Quantity
Magnetic working plate (254mm)	1 piece	Anti-sticky disc (254mm)	1 piece
One side sticky grinding paper (250mm) 320#, 1000#	10 pieces/each	One side sticky polishing cloth (250mm), velvet fabric	1 piece
Diamond polishing liquid, 6micron, 200ml	1 bottle	Lubrication cooling liquid, blue, 200ml	1 bottle
Waterproof ring	1 piece	input-water pipe adapter	1 piece
Input-water pipe	1 piece	power cable	1 piece
Output-water pipe	1 piece	machine certification	1 set
Machine manual	1 set	packing list	1 set
Machine Guarantee card	1 set		



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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

AUTOPOL-1000

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1.



specifications

Disc diameter: standard 250mm (optional 230mm, 200mm)

Speed: 0-1000n/min, (customized)

Grinding head speed: 50-200n/min

Air pressure: 0.5-0.8MPa

Electromotor: 220V, 50/60Hz, 550W

Overall Dimensions: 710x 430 x 640 mm

Net weight: 74kg



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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

AUTOPOL-1000

www.itokin2000.com

2.

Application and Feature

- Six pieces Φ 30mm samples can be polished simultaneously
- Single point pneumatic holding, no demo gripper
- Grinding and polishing procedure (rough and fine) are continuously done, no machine transition
- Frequency Converter control, three-level constant speed mode and variable Speed mode:
- Three level constant speeds: customer can define three common speeds for pre-grinding, grinding and polishing
- Variable speed mode: grinding speed 0-1000n/min
- Eight sections programmable control, automatically stop, convenient for customer getting metallographic demos
- Beautiful outlook and good quality

specifications

Disc diameter: standard 250mm (optional 230mm, 200mm)

Speed: 0-1000n/min, (customized)

Grinding head speed: 50-200n/min

Air pressure: 0.5-0.8MPa

Electromotor: 220V, 50/60Hz, 550W

Overall Dimensions: 710x 430 x 640 mm

Net weight: 74kg



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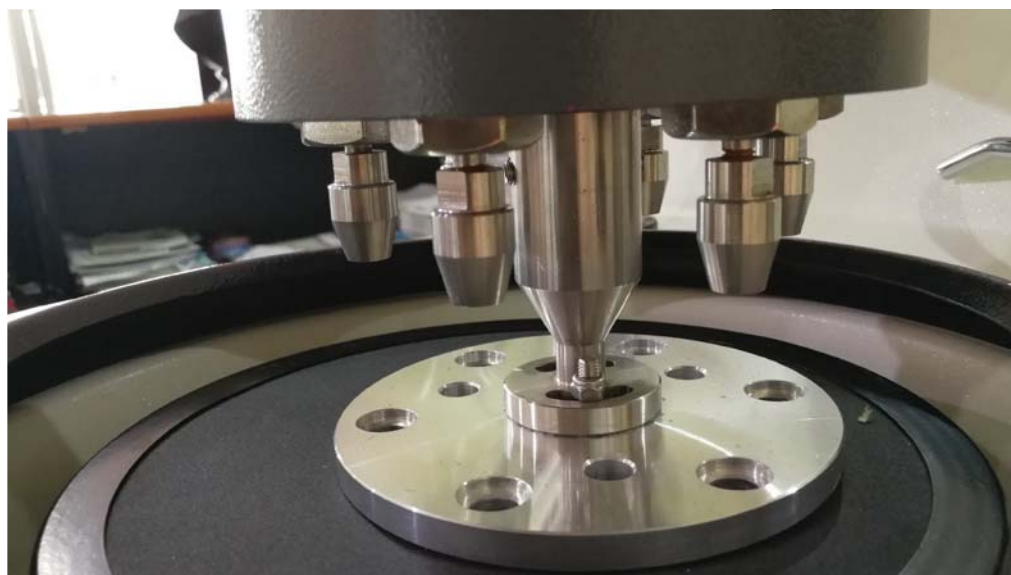
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SPECIMEN GRINDING & POLISHING

AUTOPOL-1000

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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

BULUPOL-1

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1.



specifications

Dimensions of machine: 40x35x45 cm

Case dimensions: 50x50x55 cm

Weight (net/gross): 30/50 kg

Motor: 0,25 KW AC, 220 V

Wheel speed: 50 - 1000 rpm (adjustable)

Mains: 220 Volt, 50 Hz

Disc dia: Ø 200 mm with magnet



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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

BULUPOL-1

2.

www.itokin2000.com



specifications

Dimensions of machine: 40x35x45 cm

Case dimensions: 50x50x55 cm

Weight (net/gross): 30/50 kg

Motor: 0,25 KW AC, 220 V

Wheel speed: 50 - 1000 rpm (adjustable)

Mains: 220 Volt, 50 Hz

Disc dia: Ø 200 mm with magnet

Standart Accessories

Aluminium top discs and magnets: 1

Stainless steel discs: 1

Flexible water hose for drain connection: 1

Flexible water hose and control valves: 1

Self adhesive emery paper (220 grit): 10

Self adhesive emery paper (400 grit): 10

Self adhesive emery paper (600 grit): 10

Self adhesive emery paper (800 grit): 10

Self adhesive polishing cloth: 5

Diamond paste (3-6 microns): 1

Alumina suspension (500 gr): 1



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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

MOPA0 160

www.itokin2000.com

Main features

- This model is the economical & practical instrument designed for metallography specimen preparing. It can meet the demands of specimen preparing from customers very well.
- This model is designed and manufactured as per international advanced specimen preparing technology.
- Equipped with beautiful appearance glass fibre reinforced plastic machine shell and full stainless steel parts which never rust.
- There are two optional types for MOPA0 160 : 200mm or 250mm working disk. The working disk can be changed and replaced swiftly.
- There are two-level constant speeds for the working disk.



specifications

- Rotating speed of working disk: 150/300 rpm (Two-level)
- Diameter of working disk : 200mm/250mm
- Power supply : 380V three phases
- Dimensions : 340 x 630 x 300mm (200mm)
or 380 x 660 x 300mm (250mm)
- Net weight : 45Kg



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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

MOPA0 160E

www.itokin2000.com

Main features

- This model is the economical & practical instrument designed for metallography specimen preparing. It can meet the demands of specimen preparing from customers very well.
- This model is designed and manufactured as per international advanced specimen preparing technology.
- Equipped with beautiful appearance glass fibre reinforced plastic machine shell and full stainless steel parts which never rust.
- There are two optional types for MOPA0 160E : 200mm or 250mm working disk. The working disk can be changed and replaced swiftly.
- There are two working conditions for this model: the stepless speed changing status or two-level constant speed status. The working condition can be switched from one to another easily. Also the rotating direction of working disk can be chosen at will.
- One key restoring function.



specifications

- Rotating speed of working disk: 50-600rpm (stepless speed changing) or 150/300 rpm (two-level constant speed)
- Diameter of working disk : 200mm/250mm
- Power supply : 220V 50Hz
- Dimensions : 340 x 630 x 300mm (200mm)
or 380 x 660 x 300mm (250mm)
- Net weight : 45Kg



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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

MOPA0 300

www.itokin2000.com

Main features

- This model is the economical & practical instrument designed for metallography specimen preparing. It can meet the demands of specimen preparing from customers very well.
- This model is designed and manufactured as per international advanced specimen preparing technology.
- Equipped with beautiful appearance glass fibre reinforced plastic machine shell and full stainless steel parts which never rust.
- There are two-level constant speeds for the working disk. The working disk can be changed and replaced swiftly.



Automatic

specifications

- Rotating speed of working disk: 150/300 rpm (Two-level)
- Diameter of working disk : 300mm
- Power supply : 380V three phases
- Dimensions : 430 x 710 x 300mm
- Net weight : 55Kg



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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

MOPA0 300E

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Main features

This grinder polisher is of single plate. It is suitable for pre grinding, grinding and polishing metallographic specimens. Since the machine is speed-adjusted by microprocessor, it can run at a revolution of 50 to 600rpm, which favors the machine with wide applications. The machine is equipped with cooling system that can cool down the specimen during pre grinding so as to prevent overheating and damage the metallographic structure. Featuring easy operation and reliable performance, it is an indispensable device for the factories, research institutions and college labs to prepare metallographic specimen.



Automatic MOPA0-300E

specifications

- Rotating speed of working disk: 50-600rpm (stepless speed changing) or 150/300 rpm (two-level constant speed)
- Diameter of working disk : 300mm
- Power supply : 220V 50Hz
- Dimensions : 430 x 710 x 300mm
- Net weight : 55Kg



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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

MOPA01000

www.itokin2000.com

Main features

- Digital display rotating speed
- Load pressure & specimen making time are adjustable
- Grinding & polishing disks head can be set to stepless speed changing
- Grinding & polishing head can be set to stepless speed changing status
- Equipped with beautiful appearance glass fibre reinforced plastic machine shell and full stainless steel parts which never rust
- Equipped with grinding & polishing disks which can be changed swiftly and multi-specimen clamping holder
- Central pressure loading
- Automatic and big volume feeding system of grinding materials
- Processing 6 Specimens at same time is available
- One-key restoring program function

specifications

- Grinding & polishing disks rotating speed 0-600 rpm (stepless speed changing) or 150/300 rpm (two-level constant speed)
- Loading range : 1 -200n
- Specimen preparing time : 0-999 seconds
- Max. diameter of specimen : Φ 30mm
- Diameter of grinding & polishing disks : Φ 250mm
- Power supply : 220V/50Hz
- Dimensions: 660 x 380 x 640 mm
- Net weight : 45 Kg



Automatic
MOPA0-1000



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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

MOPA02000

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Main features

- Pneumatic loading, digital displaying rotating speed
- Load pressure & specimen making time are adjustable
- Grinding & polishing disks have two functions: two-level constant speeds & stepless speed changing
- Grinding & polishing head can be set to stepless speed changing status.
- Equipped with beautiful appearance glass fibre reinforced plastic machine shell and full stainless steel parts which never rust.
- Equipped with grinding & polishing disks which can be changed swiftly and multi-specimen clamping holder
- Central pressure loading.
- Automatic and big volume feeding system of grinding materials.
- It is available to process several specimens at same time.
- One-key restoring program function

specifications

- Grinding & polishing disks rotating speed. 50-600 rpm (stepless speed changing) or 150/300 rpm (two-level constant speed)
- Loading range : 1-225N
- Specimen preparing time : 0-9999 seconds
- Diameter of grinding & polishing disks: Φ 250mm
- Power supply : 220V/50Hz
- Dimensions : 660 x 380 x 640 mm
- Net weight : 45 Kg



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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

P-2

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Application and Feature

Model P-2 Metallographic specimen polishing machine is suitable for the polishing of the specimen which has been grinded. The specimen surface is very smooth after processing and can be used to observe and measure the metallographic structure of specimen under microscope



specifications

- Diameter of polishing disc : \varnothing 200mm, double disc
- Polishing disc rotating speed : 1400rpm
- Motor power : 180W
- Power supply : Single phase, 220V, 50Hz
- Dimensions : 90 x 50 x 92cm
- Net weight : 44Kg



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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

P-2G

www.itokin2000.com

Application and Feature

Model P-2G Metallographic specimen polishing machine is designed and improved on the basis of P-2T Metallographic specimen polishing machine. The appearance is changed from original floor type into cabinet type. This machine features nice appearance design, big store cabinet and cooling system (which can clear up the heat produced during grinding so as to prevent the metallographic structure from being damaged). It is the ideal specimen preparing instrument for using in factories, scientific institutes and laboratories of colleges.



specifications

- Diameter of polishing disc : \varnothing 200mm
- Polishing disc rotating speed : 1400rpm (or customized)
- Motor power : 180W
- Power supply : Single phase, 220V, 50Hz
- Dimensions : 55 x 82 x 97 cm
- Net weight : 60 Kg



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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

P-2T

P-2T

www.itokin2000.com



Main features

Model P-2T Metallographic specimen polishing machine is a kind of double-disc table type polishing machine equipped with cooling system and can be operated by two persons at the same time. It is suitable for the polishing of the specimen which has been grinded. The specimen surface is very smooth after processing and can be used to observe and measure the metallographic structure of specimen under microscope.

specifications

- Diameter of polishing disc : \varnothing 200mm, double discs
- Polishing disc rotating speed : 1400rpm (or customized)
- Motor power : 180W
- Power supply : Single phase, 220V, 50Hz
- Dimensions : 73x41x31cm
- Net weight : 35Kg

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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

MP-2C

www.itokin2000.com

Application and Feature

- Stepless speed changing from 50 to 1000 rpm
- This model is designed and manufactured as per international advanced specimen preparing technology.
- Equipped with beautiful appearance machine shell and full stainless steel parts which never rust.



specifications

- Rotating speed of working disc : 50-1000 rpm (stepless speed changing)
- Diameter of grinding disc : 230mm
- Diameter of polishing disc : 200mm
- Diameter of abrasive paper : 200mm
- Power supply : single phases, 220V, 50Hz
- Motor power : YSS7124, 550W
- Dimensions : 870 x 760 x 550cm
- Net weight : 56 Kg



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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

M-2

www.itokin2000.com

Application and Feature

Model M-2 Metallographic specimen pre-grinding machine is a wet type pre-grinding machine. Taking advantage of various water-resistant sand papers with different granularity, it can be used to pre-grind various metal and alloy materials. By using this machine, manual grinding can be replaced by mechanical grinding so as to improve specimen preparing efficiency, also the deforming and heating trace produced during cutting can be removed completely. This will be suitable to observe and measure the metallographic structure of specimen under microscope.



specifications

- Diameter of grinding disk : $\varnothing 230\text{mm}$, double disks
- Grinding disk rotating speed : 450rpm (or customized)
- Power supply : Single phase, 220V, 50Hz
- Motor power : 370W
- Dimensions : 70x60x28cm
- Net weight : 40Kg



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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

MP-2 (Economical type)

www.itokin2000.com

Application and Feature

Model MP-2 Metallographic specimen grinding & polishing machine is equipped with double discs, and it can finish grinding or polishing with two different speeds. The rotating speed of left disc (pre-grinding disc) is 450 rpm and right disc (polishing disc) is 600 rpm. With double disc and different grinding and polishing materials, it can realize the process of rough grinding, fine grinding, rough polishing and finishing polishing. The machine features easy operation and economical applying. It is the ideal specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.



specifications

- Diameter of grinding disc : \varnothing 230mm, rotating speed 450 rpm (or customized)
- Diameter of polishing disc : \varnothing 200mm, rotating speed 600 rpm (or customized)
- Power supply : Single phase, 220V, 50Hz
- Motor power : 370W
- Dimensions : 70x60x28cm
- Net weight : 40Kg



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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

MP-2D (Dual-speed)

www.itokin2000.com



Application and Feature

- This model is the economical & practical instrument designed for metallographic specimen preparing. It can meet the demand of specimen preparing from customers very well.
- This model is designed and manufactured as per international advanced specimen preparing technology.
- Equipped with beautiful appearance machine shell and full stainless steel parts which never rust.
- Equipped with double motors & double working disks which features independent controlling. The working disk can be changed and replaced swiftly.
- There are two optional types for MP-2D : 200mm or 250mm working disk.

specifications

- Diameter of working disc : 200mm/250mm
- Rotating speed of working disc : two-level constant speed of 300/ 600 rpm (or 150/ 300 rpm is optional)
- Power supply : three phases, 380V, 50Hz
- Dimensions : 70x60x28cm
- Net weight : 50Kg



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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

MP-2B

www.itokin2000.com

Application and Feature

MP-2B Grinding and Polishing Machine suitable for metallographic specimen pre-grinding, grinding and polishing operation, is the necessary equipment to make metallographic specimen.

Its equipped with cooling device, used to cooling the sample when grinding, to prevent the sample over-heating and destroy metallographic organization. The left disc used for grinding and the right disc used for polishing, so 2 people can operate at the same time.

Its easy to operation, safe and reliable, is the ideal sample preparation equipment for factories, research institutes and universities laboratory.



specifications

Digital display of rotating speeds of grinding and polishing discs

Diameter of grinding disc: Ø230mm, rotating speed 50-1000 rpm

Diameter of polishing disc: Ø200mm, rotating speed 50-1000 rpm

Diameter of sand paper: Ø200mm

Motor: 550W

Power supply: Single phase, 220V, 50Hz

Dimensions: 70 × 60 × 28 cm

Net weight: 45 Kg



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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

MP-2DE

www.itokin2000.com



Application and Feature

- This model is the economical & practical instrument designed for metallographic specimen preparing. It can meet the demand of specimen preparing from customers very well.
- This model is designed and manufactured as per international advanced specimen preparing technology.
- Equipped with beautiful appearance machine shell and full stainless steel parts which never rust.
- Equipped with double motors & double working disks which features independent controlling. The working disk can be changed and replaced swiftly.
- There are two optional types for MP-2DE : 200mm or 250mm working disk.
- CCW and CW rotating direction control
- There are two working conditions for this model : the stepless speed changing status or two-level constant speed status. The working condition can be switched from one to another easily. Also the rotating direction of working disc can be chosen at will.

specifications

- Diameter of working disc : 200mm/250mm
- Rotating speed of working disc : 50/ 600 rpm (stepless speed changing), and 150/300 rpm (two-level constant speed)
- Power supply : double phases, 220V, 50Hz
- Dimensions : 70x60x28cm
- Net weight : 50Kg



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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

MP-260 Dual-speed

www.itokin2000.com



Application and Feature

- This model is the economical & practical instrument designed for metallographic specimen preparing. It can meet the demand of specimen preparing from customers very well.
- This model is designed and manufactured as per international advanced specimen preparing technology.
- Equipped with beautiful appearance machine shell and full stainless steel parts which never rust.
- Double working disc. There are two-level constant speeds for working disc. The working disc can be changed and replaced swiftly
- There are two optional types for MP-260 : 200mm or 250mm working disk.

specifications

- Diameter of working disc : 200mm/250mm
- Rotating speed of working disc : 300/ 600 rpm
(two-level constant speed or customized 150/300 rpm is optional)
- Power supply : three phases, 380V, 50Hz
- Dimensions : 70x60x28cm
- Net weight : 40Kg



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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

MP-260E

www.itokin2000.com



Application and Feature

- This model is the economical & practical instrument designed for metallographic specimen preparing. It can meet the demand of specimen preparing from customers very well.
- This model is designed and manufactured as per international advanced specimen preparing technology.
- Equipped with beautiful appearance machine shell and full stainless steel parts which never rust.
- Double working disc. The working disc can be changed and replaced swiftly
- CCW and CW rotating direction control
- There are two working conditions for this MP-260E : the stepless speed changing status or two-level constant speed status. The working condition can be switched from one to another easily. Also the rotating direction of working disc can be chosen at will

specifications

- Diameter of working disc : 200mm/250mm
- Rotating speed of working disc : 50/600 rpm (stepless speed changing) and 150/300 (two-level constant speed or customized 150/300 rpm is optional)
- Power supply : single phases, 220V, 50Hz
- Dimensions : 70x60x28cm
- Net weight : 40Kg



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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

MP-2S

www.itokin2000.com



Application and Feature

MP-2S is a newly designed touch screen type metallographic specimen grinding and polishing machine which is equipped with single disc and features stepless speed changing. It can realize the whole process of rough grinding, fine grinding, rough polishing and finishing polishing for specimen preparing. This machine features easy operation and economical applying. It is the ideal specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.

specifications

- Rotating speed of working disc : 50-1000 rpm (stepless speed changing) and 150/300/600/800 rpm (four-level constant speed)
- Diameter of working disc : 200/250mm
- Power supply : single phases, 220V, 50Hz
- Motor power : YSS7124, 550W
- Dimensions : 870x760x560mm
- Net weight : 45Kg



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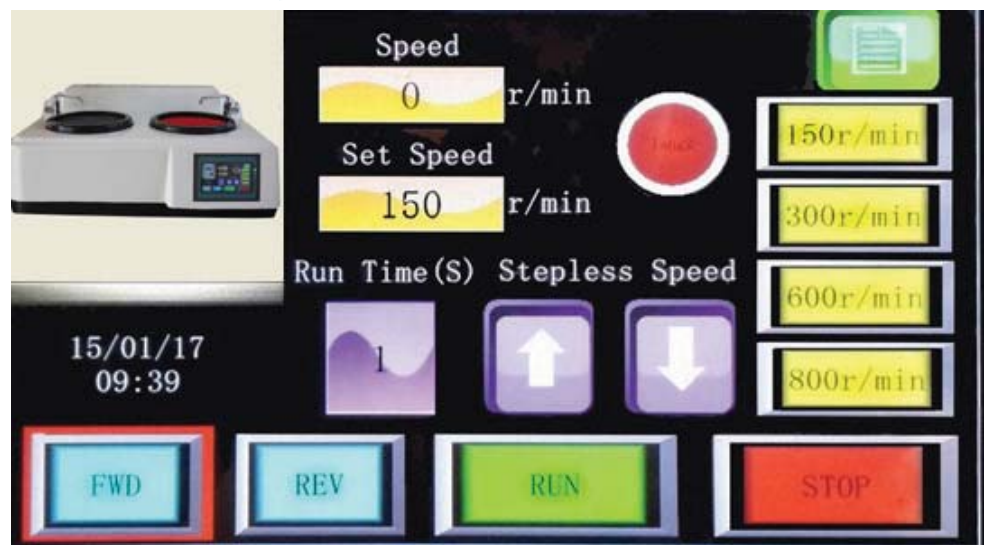
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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

MP-2S

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Main features

- Touch type LCD screen operation. Rotating speed is displayed on LCD directly
- Grinding and polishing time is adjustable from 0 to 1000 seconds
- There are two working conditions for this model : the stepless speed changing status or four-level constant speed status. The working condition can be switched from one to another easily
- The rotating direction of working disc can be chosen at will
- Four-level constant speed : 150, 300, 600, 800 rpm
- Stepless speed changing from 50 to 1000 rpm
- This model is designed and manufactured as per international advanced specimen preparing technology
- Equipped with beautiful appearance machine shell and stainless steel parts which never rust



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SPECIMEN GRINDING & POLISHING

METAPOL-2250X

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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

METAPOL-2250X

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Main features

- Multi-usage, metallographic specimen of coarse grinding, fine grinding, coarse and fine polishing, one machine to complete
- Grinding disc diameter: 254 mm, compare to ordinary grinding disc, effective area increased by 60%
- Manual mode: three-level constant speed mode and variable speed mode
- Three level constant speeds: customer can define three common speeds for pre-grinding, grinding and polishing
- Variable speed mode: grinding speed 0-1000n/min
- Automatic mode: Eight sections programmable control, automatically stop, convenient for customer getting metallographic sample
- Easily replace magnetic anti-sticking dish, can make all kinds of sample of coarse and fine grinding, coarse and fine polishing all process
- Optional work rotating direction: counterclockwise and hour hand is optional
- By using the electromagnetic valve to control the water on and off
- Increase the automatic grinding head, can be upgraded to automatic polishing machine, automatic processing of six samples at the same time
- Beautiful outlook and good quality



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STANDARD ACCESSORY

Name	Quantity	Name	Quantity
Magnetic working plate (254mm)	2 pieces	Anti-sticky disc (254mm)	2 pieces
One side sticky grinding paper (250mm) 320#, 1000#	10 pieces/each	One side sticky polishing cloth(250mm), velvet fabric	1 piece
Diamond polishing liquid, 6micron, 200ml	1 bottle	Lubrication cooling liquid, blue, 200ml	1 bottle
Waterproof ring	1 piece	input-water pipe adapter	1 piece
Input-water pipe	1 piece	power cable	1 piece
Output-water pipe	1 piece	machine certification	1 set
Machine manual	1 set	packing list	1 set
Machine Guarantee card	1 set		



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METAPOL-2250X

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metallographic grinding paper	GSC250A	<ul style="list-style-type: none">● 100pieces /package● material: black carborundum● sand size: P80# 120# 180# 320# 600# 800# 1000# 1200# 1500# 2000#● size: Φ250mm● waterproof and one side sticky, can be attached on the grinding plate directly
Anti-sticky disc	MAGNOMET	<ul style="list-style-type: none">● anti-sticky disc 5pieces/box● diameter: Φ254mm● Surface coating with Special anti-sticky layer, can attach the sticky paper and polishing cloth directly, and easily replace without sticky mark.● Can be reuse● Can be replace the BUEHLER and STRUERS same production
Polishing cloth	FT250A	<ul style="list-style-type: none">● polish cloth 10pieces/package● velvet fabric(long floss) / canvas (short floss) / Woolen cloth (short floss) / silk cloth (no floss)● Φ250mm● one side sticky, can be attached directly on the grinding plate
Diamond grinding and polishing liquid	DSU	<ul style="list-style-type: none">● Diamond grinding and polishing liquid,500ml/bottle● Diamond suspending in the liquid, can be dropped automatically or watering pot, Uniformly distribution● size: 0.25, 0.5, 1, 1.5, 2.5, 3, 3.5, 5, 6, 7, 9, 10, 14, 15, 20, 28, 40micron , for different material

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Application and Feature

- Two working plates, standard plates dimension 250mm, 50% larger than normal grinding and polishing machine
- Six pieces $\Phi 30$ mm samples can be polished simultaneous
- Single point pneumatic holding, no demo gripper
- Grinding and polishing procedure (rough and fine) are continuously done, no machine transition
- Frequency Converter control, three-level constant speed mode and variable Speed mode
- Three level constant speeds: customer can define three common speeds for pre-grinding, grinding and polishing
- Variable speed mode: grinding speed 60-1000n/min
- Eight sections programmable control, automatically stop, convenient for customer getting metallographic demos
- Beautiful outlook and good quality



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SPECIMEN GRINDING & POLISHING

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specifications

Magnetic grinding disc diameter: 250mm (optional 200mm, 230mm)

Sample holder: 6-hole, $\Phi 30$ mm (or 3-hole, $\Phi 40$ - $\Phi 50$ mm optional)

Grinding disc rotating speed: 100-1000 rpm

FWD & REV rotating directions can be switched

Three-level constant speeds: V1=300rpm, V2=500rpm, V3=800rpm (or customizable)

Grinding head rotating speed: 30-200 rpm

Air pressure: 0.5-0.8MPa

Sample pressure range: recommend 0.2-0.3Mpa

Power supply: 220V, 50/60Hz, single phase

Motor: 750W

Overall Dimensions: 730x 700 x 650 mm

Net weight: 74Kg



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STANDARD ACCESSORY

4.

Name	Quantity	Name	Quantity
Magnetic working plate (254mm)	2 pieces	Anti-sticky disc (254mm)	2 pieces
One side sticky grinding paper (250mm) 320#, 1000#	10 pieces/each	One side sticky polishing cloth (250mm), velvet fabric	1 piece
Diamond polishing liquid, 6micron, 200ml	1 bottle	Lubrication cooling liquid, blue, 200ml	1 bottle
Waterproof ring	1 piece	input-water pipe adapter	1 piece
Input-water pipe	1 piece	power cable	1 piece
Output-water pipe	1 piece	machine certification	1 set
Machine manual	1 set	packing list	1 set
Machine Guarantee card	1 set		



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OPTIONAL ACCESSORY

5.

metallographic grinding paper	GSC250A	<ul style="list-style-type: none">● 100pieces /package● material: black carborundum● sand size: P80# 120# 180# 320# 600# 800# 1000# 1200# 1500# 2000#● size: Φ250mm● waterproof and one side sticky, can be attached on the grinding plate directly
Anti-sticky disc	MAGNOMET	<ul style="list-style-type: none">● anti-sticky disc 5pieces/box● diameter: Φ254mm● Surface coating with Special anti-sticky layer, can attach the sticky paper and polishing cloth directly, and easily replace without sticky mark.● Can be reuse● Can be replace the BUEHLER and STRUERS same production
Polishing cloth	FT250A	<ul style="list-style-type: none">● polish cloth 10pieces/package● velvet fabric(long floss) / canvas (short floss) / Woolen cloth (short floss) / silk cloth (no floss)● Φ250mm● one side sticky, can be attached directly on the grinding plate
Diamond grinding and polishing liquid	DSU	<ul style="list-style-type: none">● Diamond grinding and polishing liquid,500ml/bottle● Diamond suspending in the liquid, can be dropped automatically or watering pot, Uniformly distribution● size: 0.25, 0.5, 1, 1.5, 2.5, 3, 3.5, 5, 6, 7, 9, 10, 14, 15, 20, 28, 40micron, for different material

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METALLOGRAPHY

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Application and Feature

Dimensions of machine: 70(width)x63(deep)x40(height) cm

Case dimensions: 79 (width)x75(deep)x49(height) cm

Weight (net/gross): 50 / 90 kg

Motor: 0,55 KW

Wheel speed: 100 - 500 rpm (adjustable)

Mains: 220 Volt, 50 Hz

Disc dia: 200 mm (250 mm on request)

Standart Accessories

Aluminium top discs and magnets: 1

Stainless steel discs: 2

Flexible water hose for drain connection: 1

Flexible water hose and control valves: 1

Self adhesive emery paper (220 grit): 10

Self adhesive emery paper (400 grit): 10

Self adhesive emery paper (600 grit): 10

Self adhesive emery paper (800 grit): 10

Self adhesive polishing cloth: 10

Diamond paste (3-6 microns): 1

Alumina suspension (500 gr): 1



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METALLOGRAPHY

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Application and Feature

Dimensions of machine: 70(width)x63(deep)x40(height) cm

Case dimensions: 79(width)x75(deep)x49(height) cm

Weight (net/gross): 50 / 90 kg

Motor: 0,55 KW

Wheel speed: 100 - 500 rpm (adjustable)

Mains: 220 Volt, 50 Hz

Disc dia: 200 mm (250 mm on request)

Adjusting disc turning and water spraying time

Manual & automatic water spray

Standart Accessories

200 mm aluminium top discs and magnets: 2

(2 pcs), stainless steel discs (5 pcs), flexible water hose and control valves, flexible water hose for drain connection.

Self adhesive emery paper (220 grit): 10

Self adhesive emery paper (400 grit): 10

Self adhesive emery paper (600 grit): 10

Self adhesive emery paper (800 grit): 10

Self adhesive polishing cloth: 10

Diamond paste (3-6 microns): 1

Alumina suspension (500 gr): 1



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METALLOGRAPHY

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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

BULUPOL-4

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2.

Application and Feature

Dimensions of machine: 70 X 63 X 65 cm

Case dimensions: 80 X 80 X 49 cm

Weight (net/gross): 70 / 110 kg

Motor: 0,55 KW

Wheel speed: 100 - 500 rpm (adjustable)

Mains: 220 Volt, 50 Hz

Disc dia: 200 mm (250 mm on request)



Standart Accessories

200 mm aluminium top discs and magnets: (2 pcs)

Stainless steel discs (5 pcs), flexible water hose and control valves, flexible water hose for drain connection.

Self adhesive emery paper (220 grit): 10 pcs

Self adhesive emery paper (400 grit): 10 pcs

Self adhesive emery paper (600 grit): 10 pcs

Self adhesive emery paper (800 grit): 10 pcs

Self adhesive polishing cloth: 10 pcs

Diamond paste (3-6 microns): 1

Alumina suspension (500 gr): 1



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Belt Surface

SURFACE GRINDING MACHINE

BG-32

Application and Feature

Model BG-32 Belt surface grinding machine is of new generation design, made according to the international standard and advanced process technique. It adopts sand belt to grind and polish the specimen. The different belts can be changed swiftly. This machine can be used to replace the disc grinder and manual type abrasive paper grinding. It only takes 1-2 minutes to for each belt to finish the operation. For the grinding of spectroscopy specimen, it is very economic to save time, labour and abrasive paper. This machine can be widely used in laboratories, researching institutes and factories.



Technical specifications

- Distance between the centers of two rollers: 255mm
- Equipped with water cooling system
- Sand belt: 920mm x 100mm (LxW)
- Rotating speed : 1400 rpm
- Surface speed : 768 rpm
- Motor : 550W
- Power supply : 380V, 3-phase, 50Hz
- Dimension : 600 x 550 x 310mm



COARSE BELT SURFACE GRINDING MACHINE LBG-32

PAGE 1.



COARSE BELT SURFACE GRINDING MACHINE LBG-32

PAGE 2.

Application and Feature

This MPT-E polishing and grinding head is designed according to investigation and researches on the market and customers' requirements. MPT can prepare one, two or three samples at one time. It can be fixed onto many models of polishing and grinding machines produced by us, such as MP-2 (E), MP-2B (E), MP-1C, and MP-1S etc. It is easy-to-use, and the quality of finished sample is high. MPT-E is an ideal option for the lab of factories, science and research institutions and universities, which can prepare sample by unmanned operation and increase the efficiency.

Technical Specifications

- The distance between two roller's center: 274mm
- Water cooling system and dust separation plant
- Belt: 1003 x 100mm (L x W)
- Rotating speed: 1400rpm
- Surface speed: 768mpm
- Motor: 750w
- Power: 380V three phases, 50Hz
- Dimensions: 580 x 600 x 980 mm
- Grinding size: 220 x 120mm



METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

MOPA0-2D

www.itokin2000.com

Application and Feature

- This model is the economical & practical instrument designed for metallography specimen preparing. It can meet the demands of specimen preparing from customers very well.
- This model is designed and manufactured as per international advanced specimen preparing technology.
- Equipped with beautiful appearance glass fibre reinforced plastic machine shell and full stainless steel parts which never rust.
- Double working disks. The working disk can be changed and replaced swiftly.
- There are two optional types for MOPA0 2D : 200mm or 250mm working disk.



specifications

- Rotating speed of working disk: 150-300rpm (two-level)
- Diameter of working disk : 200mm/250mm
- Power supply : 380V three phases



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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

MOPA0-2DE

www.itokin2000.com

Automatic



Application and Feature

- This model is the economical & practical instrument designed for metallography specimen preparing. It can meet the demands of specimen preparing from customers very well.
- This model is designed and manufactured as per international advanced specimen preparing technology.
- Equipped with beautiful appearance glass fibre reinforced plastic machine shell and full stainless steel parts which never rust.
- Equipped with double motors & double working disks. The working disk can be changed and replaced swiftly
- There are two optional types for MOPA0 2 DE : 200mm or 250mm working disk.
- There are two working conditions for this model : the stepless speed changing status or two-level constant speed status. The working condition can be switched from one to another easily. Also the rotating direction of working disk can be chosen at will.
- One key restoring function.

specifications

- Rotating speed of working disk: 50-600rpm (stepless speed changing) or 150/300rpm (two-level constant speed)
- Diameter of working disk : 200mm/250mm
- Power supply : 220V 50Hz
- Net weight: 75 Kg



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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

MOPA0-260

www.itokin2000.com

Application and Feature

- This model is the economical & practical instrument designed for metallography specimen preparing. It can meet the demands of specimen preparing from customers very well.
- This model is designed and manufactured as per international advanced specimen preparing technology.
- Equipped with beautiful appearance glass fibre reinforced plastic machine shell and full stainless steel parts which never rust.
- There are two-level constant speeds for the working disk. The working disk can be changed and replaced swiftly.
- There are two optional types for MOPA0 260 : 200mm or 250mm working disk.



Automatic

specifications

- Rotating speed of working disk: 150/300 rpm (Two-level)
- Diameter of working disk : 200mm/250mm
- Power supply : 380V three phases
- Dimensions : 630 x 630 x 300mm (200mm)
or 730 x 660 x 300mm (250mm)
- Net weight : 45Kg



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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

MOPA0-260E

www.itokin2000.com

Application and Feature

- This model is the economical & practical instrument designed for metallography specimen preparing. It can meet the demands of specimen preparing from customers very well.
- This model is designed and manufactured as per international advanced specimen preparing technology.
- Equipped with beautiful appearance glass fibre reinforced plastic machine shell and full stainless steel parts which never rust.
- Double working disks. The working disk can be changed and replaced swiftly.
- There are two optional types for MOPA0 260E : 200mm or 250mm working disk. The working disk can be changed and replaced swiftly.
- There are two working conditions for this model: the stepless speed changing status or two-level constant speed status. The working condition can be switched from one to another easily. Also the rotating direction of working disk can be chosen at will.
- One key restoring function.



Automatic

specifications

- Rotating speed of working disk: 50-600rpm (stepless speed changing) or 150/300 rpm (two-level constant speed)
- Diameter of working disk : 200mm/250mm
- Power supply : 220V 50Hz
- Dimensions : 630 x 630 x 300mm (200mm)
or 730 x 660 x 300mm (250mm)
- Net weight : 45Kg



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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

MOPA0 300S

www.itokin2000.com

Application and Feature

- This model is the economical & practical instrument designed for metallography specimen preparing. It can meet the demands of specimen preparing from customers very well.
- This model is designed and manufactured as per international advanced specimen preparing technology.
- Equipped with beautiful appearance glass fibre reinforced plastic machine shell and full stainless steel parts which never rust.
- There are two-level constant speeds for the working disk. The working disk can be changed and replaced swiftly.

specifications

- Rotating speed of working disk: 150/300 rpm (Two-level)
- Diameter of working disk : 300mm
- Power supply : 380V three phases
- Dimensions : 430 x 710 x 300mm
- Net weight : 55Kg



Automatic



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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

MOPA0 300ES

www.itokin2000.com

Application and Feature

- This model is the economical & practical instrument designed for metallography specimen preparing. It can meet the demands of specimen preparing from customers very well.
- This model is designed and manufactured as per international advanced specimen preparing technology.
- Equipped with beautiful appearance glass fibre reinforced plastic machine shell and full stainless steel parts which never rust.
- There are two working conditions for this model: the stepless speed changing status or two-level constant speed status. The working condition can be switched from one to another easily. Also the rotating direction of working disk can be chosen at will.
- One key restoring function.



specifications

- Rotating speed of working disk: 50-600rpm (stepless speed changing) or 150/300 rpm (two-level constant speed)
- Diameter of working disk : 300mm
- Power supply : 220V 50Hz
- Dimensions : 430 x 710 x 300mm
- Net weight : 55Kg



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Preparing Specimen

SURFACE GRINDING MACHINE

KMP2030D-1



KOREA BRAND



Summary

The tester is designed to obtain specular surfaces of various specimens. It is useful for observing the specular surfaces obtained by a grinder with a microscope.

Features

This machine is designed or manufactured to obtain specular surfaces of test specimens, such as metallic materials.



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Preparing Specimen

SURFACE GRINDING MACHINE

KMP2030D-1



KOREA BRAND



Technical Specifications

- Number of rotation : 5 ~ 900rpm knob controller
- Disc Size : AL Φ 203mm, tapered type
- Cooling Water : Free-form valve mounted
- Cleaning method by water spray in bowl
- Motor system for minimizing noise and vibration
- SOL mountable for cooling water supply and shut off
- Economical price and new concept of consumables included
- Sandpaper fixing ring : 3-point stainless ring
- Size : 350(W) * 500(D) * 400(H) mm

Application

Molded specimen, products that require gloss

PAGE 2.



Preparing Specimen

SURFACE GRINDING MACHINE

KMP2030D-2



KOREABRAND

PAGE 1.



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Preparing Specimen

SURFACE GRINDING MACHINE

KMP2030D-2



Summary

The tester is designed to obtain specular surfaces of various specimens.

It is useful for observing the specular surfaces obtained by a grinder with a microscope.

Features

This machine is designed or manufactured to obtain specular surfaces of test specimens, such as metallic materials.

Application

Molded specimen, products that require gloss

Technical specifications

- Number of rotation : 5 ~ 900rpm knob controller
- Disc Size : AL Φ 203 ~ 254 mm, tapered type
- Cooling Water : Free-form valve mounted
- Cleaning method by water spray in bowl
- Motor system for minimizing noise and vibration
- SOL mountable for cooling water supply and shut off
- Economical price and new concept of consumables included
- 3 automatic head : Optional
- Size : 650(W) * 500(D) * 400(H) mm

KOREABRAND

PAGE 2.

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Preparing Specimen

SURFACE GRINDING MACHINE

AH32



PAGE 1.

KOREABRAND



Preparing Specimen

SURFACE GRINDING MACHINE

AH32

KOREABRAND



Summary

The tester is designed to obtain specular surfaces of various specimens.

It is useful for observing the specular surfaces obtained by a grinder with a microscope.

Features

This machine is designed or manufactured to obtain specular surfaces of test specimens, such as metallic materials.

Application

Molded specimen, products that require gloss



Technical specifications

- Semi-automatic polisher with semi-auto head mounting
- Plate Size : $\Phi 203$
- Table 1 plate
- Cleaning method by water spray in bowl
- Motor system for minimizing noise and vibration
- Rotation method by plate rotating toe
- Central pressurization system by air cylinder
- Power : AC220V, 60Hz
- Size : 750(W) * 650(D) * 900(H) mm



PAGE 2.

Preparing Specimen

SURFACE GRINDING MACHINE

KPM203T

KOREABRAND



PAGE 1.



Preparing Specimen

SURFACE GRINDING MACHINE

KPM203T

KOREABRAND



Summary

The tester is designed to obtain specular surfaces of various specimens.

It is useful for observing the specular surfaces obtained by a grinder with a microscope.



Features

This machine is designed or manufactured to obtain specular surfaces of test specimens, such as metallic materials.

Application

Molded specimen, products that require gloss

PAGE 2.

Technical specifications

- Rotation Speed : 0 ~ 1,700rpm (Variable Type)
- Variable Method : Slide-ac adjustable
- Polishing Method : 1st roughing 2nd polishing
- Method : 2-chamber model
- Plate Size : $\Phi 200$ to $\Phi 250$
- Motor system for minimizing noise and vibration
- Economical price and new concept of consumables included
- Size : 750(W) * 650(D) * 900(H) mm



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