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METALLOGRAPHY SPECIMEN

GRINDING & POLISHING MACHINE

รวมแคะตตาล็อค
เครื่องขัดชิ้นงานละเอียด
คุณภาพสูง

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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

M-1A

Application and Feature

Model M-1A Metallographic specimen pre-grinding machine is a kind of 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 traces produced during cutting can be removed completely. This will be suitable to observe and measure the metallographic structure of specimen under microscope. 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.

FEATURES

- Constant speed of 450 rpm
- Quick exchanging disc. The working disc can be changed and replaced swiftly.
- Equipped with water cooling tap.



specifications

- Diameter of grinding disc (with groove): \varnothing 230mm
- (200mm or 250mm disc is optional)
- Rotating speed of grinding disc: 450 rpm
- Motor power: 370W
- Power supply: Single phase, 220V, 50Hz
- Dimensions: 70 × 45 × 35 cm
- Net weight: 29 Kg



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Application and Feature

Model **M-2A** Metallographic specimen pre-grinding machine is a kind of 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 traces produced during cutting can be removed completely. This will be suitable to observe and measure the metallographic structure of specimen under microscope. 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.

FEATURES

- Constant speed of 450 rpm
- Quick exchanging disc. The working disc can be changed and replaced swiftly.
- Equipped with water cooling tap.

specifications

- Diameter of grinding disc (with groove): \varnothing 230mm
- (200mm or 250mm disc is optional)
- Rotating speed of grinding disc: 450 rpm
- Motor power: 370W
- Power supply: Single phase, 220V, 50Hz
- Dimensions: 70 × 67 × 32 cm
- Net weight: 40 Kg



METALLOGRAPHY TECPOL-1B

SPECIMEN GRINDING & POLISHING

Application and Feature

Model TECPOL-1B Metallographic specimen grinding & polishing machine is equipped with single disc and features stepless speed changing grinding and polishing. It can finish the whole process of rough grinding, fine grinding, rough polishing and finishing polishing for specimen preparing. By adjusting the transducer, it can realize the rotating speed of grinding and polishing disc adjustable from 50 to 1000 rpm. This brings this machine with much more extensive applying and makes it become the necessary metallographic specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.

Features:

- Stepless speed changing from 50 rpm to 1000 rpm
- Quick exchanging disc. The working disc can be changed and replaced swiftly.
- Equipped with water cooling tap.



specifications

Digital display of rotating speed of grinding and polishing disc

Diameter of working disc: Ø200mm or 250mm

Diameter of sand paper or polishing textile: 200mm or 250mm

Rotating speed of grinding disc & polishing disc: 50-1000 rpm stepless speed changing

Motor power: 550W

Power supply: Single phase, 220V, 50Hz

Dimensions: 70 × 67 × 32 cm

Net weight: 45 Kg



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METALLOGRAPHY **TECPOL-1C**

SPECIMEN GRINDING & POLISHING

Application and Feature

Model TECPOL-1C Metallographic specimen grinding & polishing machine is equipped with single disc, and it can finish grinding or polishing with two different speeds. The rotating speed can be switched between 300rpm and 600rpm. With single disc and different grinding and polishing materials, it can realize the process of rough grinding, fine grinding, rough polishing and finishing polishing. 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.

Features:

- Double constant speeds of 300 rpm / 600 rpm
- Quick exchanging disc. The working disc can be changed and replaced swiftly.
- Equipped with water cooling tap.



specifications

Diameter of working disc: Ø200mm or 250mm

Diameter of sand paper or polishing textile: 200mm or 250mm

Rotating speed of grinding disc & polishing disc: 300rpm / 600rpm (switchable)

Motor power: 750W

Power supply: 3-phase, 380V, 50Hz

Dimensions: 70 × 67 × 32 cm

Net weight: 40 Kg



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METALLOGRAPHY TECPOL-1E

SPECIMEN GRINDING & POLISHING

Application and Feature

Model TECPOL-1C Metallographic specimen grinding & polishing machine is equipped with single disc, and it can finish grinding or polishing with two different speeds. The rotating speed can be switched between 300rpm and 600rpm. With single disc and different grinding and polishing materials, it can realize the process of rough grinding, fine grinding, rough polishing and finishing polishing. 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.

Features:

- Double constant speeds of 300 rpm / 600 rpm
- Quick exchanging disc. The working disc can be changed and replaced swiftly.
- Equipped with water cooling tap.



specifications

Diameter of working disc: Ø200mm or 250mm

Diameter of sand paper or polishing textile: 200mm or 250mm

Rotating speed of grinding disc & polishing disc: 300rpm / 600rpm (switchable)

Motor power: 750W

Power supply: 3-phase, 380V, 50Hz

Dimensions: 70 × 67 × 32 cm

Net weight: 40 Kg



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METAPOL-160

DUAL-SPEED



Features

Model METAPOL 160 Dual-speed Metallographic specimen grinding and polishing machine is equipped with single disc and features two level constant speeds for grinding and polishing. It can finish the whole process of rough grinding, fine grinding, rough polishing and finishing polishing for specimen preparing. It is the necessary metallographic specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.

Features:

- Two level constant speed of 300 and 600 rpm
- Quick exchanging disc. The working disc can be changed and replaced swiftly.
- There are two optional types for METAPOL 160: 200mm or 250mm working disc.

Technical specifications

- Diameter of working disc: 200mm or 250mm
- Rotating speed of working disc: Two-level constant speed of 300 / 600 rpm (or 150 / 300 rpm customized)
- Power supply: Three phases, 380V, 50Hz
- Motor power: 370W
- Dimensions: 730 x 450 x 370 mm
- Net weight: 35 Kg



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METAPOL-160E

AUTOMATIC GRINDING
& POLISHING MACHINE

Features

Model METAPOL 160E Metallographic specimen grinding and polishing machine is equipped with single disc and features stepless speed changing for grinding and polishing. It can finish the whole process of rough grinding, fine grinding, rough polishing and finishing polishing for specimen preparing. By adjusting the transducer, it can realize the rotating speed of grinding and polishing disc adjustable from 50 to 600 rpm. This bring this machine with much more extensive applying and make it become the necessary metallographic specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.



Features:

- Stepless speed changing of 50-600 rpm, and two level constant speed of 150 and 300 rpm
- FWD and REV rotating direction control
- Quick exchanging disc. The working disc can be changed and replaced swiftly.
- There are two optional types for METAPOL 160E: 200mm or 250mm working disc.

Technical specifications

Diameter of working disc: 200mm or 250mm

Rotating speed of working disc: stepless speed changing 50-600 rpm,
and two-level constant speed of 150 / 300 rpm

Power supply: Single phase, 220V, 50Hz

Motor power: 550W

Dimensions: 730 x 450 x 370 mm

Net weight: 35 Kg



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METAPOL-260

DUAL-SPEED

AUTOMATIC GRINDING & POLISHING MACHINE

Features

Model METAPOL 260 Dual-speed Metallographic specimen grinding and polishing machine is equipped with double discs and features two level constant speeds for grinding and polishing. It can finish the whole process of rough grinding, fine grinding, rough polishing and finishing polishing for specimen preparing. It is the necessary metallographic specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.



Features:

- Two level constant speed of 300 and 600 rpm
- Quick exchanging disc. The working disc can be changed and replaced swiftly.
- There are two optional types for METAPOL 260: 200mm or 250mm working disc.

Technical specifications

Diameter of working disc: 200mm or 250mm
Rotating speed of working disc: Two-level constant speed of 300 / 600 rpm
(or 150 / 300 rpm customized)
Motor power: 370W
Power supply: Three phases, 380V, 50Hz
Dimensions: 870 x 760 x 560 mm
Net weight: 56 Kg



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Features

METAPOL-260E

Model METAPOL 260E Metallographic specimen grinding and polishing machine is equipped with double discs and features stepless speed changing for grinding and polishing. It can finish the whole process of rough grinding, fine grinding, rough polishing and finishing polishing for specimen preparing. By adjusting the transducer, it can realize the rotating speed of grinding and polishing disc adjustable from 50 to 600 rpm. This bring this machine with much more extensive applying and make it become the necessary metallographic specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.



Features:

- Stepless speed changing of 50-600 rpm, and two level constant speed of 150 and 300 rpm
- FWD and REV rotating direction control
- Quick exchanging disc. The working disc can be changed and replaced swiftly.
- There are two optional types for METAPOL 260E: 200mm or 250mm working disc.

Technical specifications

Diameter of working disc: 200 or 250mm
Rotating speed of working disc:
stepless speed changing 50-600 rpm,
and two-level constant speed of 150 / 300 rpm
Power supply: Single phase, 220V, 50Hz
Motor power: 550W
Dimensions: 870 x 760 x 560 mm
Net weight: 56 Kg



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METAPOL-300

AUTOMATIC GRINDING
& POLISHING MACHINE

DUAL-SPEED

Model METAPOL 300 Dual-speed Metallographic specimen grinding and polishing machine is equipped with single disc and features two level constant speeds for grinding and polishing. It can finish the whole process of rough grinding, fine grinding, rough polishing and finishing polishing for specimen preparing. It is the necessary metallographic specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.

Features:

- Two level constant speed of 300 and 600 rpm (or 150 / 300 rpm customized)
- Quick exchanging disc. The working disc can be changed and replaced swiftly.

Technical specifications

Diameter of working disc: 300mm

Rotating speed of working disc: Two-level constant speed of 300 / 600 rpm (or 150 / 300 rpm customized)

Power supply: Three phases, 380V, 50Hz

Motor power: 370W

Dimensions: 730 x 450 x 370 mm

Net weight: 37 Kg



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METAPOL-300E

AUTOMATIC GRINDING & POLISHING MACHINE

Model METAPOL 300E Metallographic specimen grinding and polishing machine is equipped with single disc and features stepless speed changing for grinding and polishing. It can finish the whole process of rough grinding, fine grinding, rough polishing and finishing polishing for specimen preparing. By adjusting the transducer, it can realize the rotating speed of grinding and polishing disc adjustable from 50 to 600 rpm. This brings this machine with much more extensive applying and makes it become the necessary metallographic specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.

Features:

- Stepless speed changing of 50-600 rpm, and two level constant speed of 150 and 300 rpm
- FWD and REV rotating direction control
- Quick exchanging disc. The working disc can be changed and replaced swiftly.



Technical specifications

Diameter of working disc: 300mm

Rotating speed of working disc: stepless speed changing 50-600 rpm,
and two-level constant speed of 150 / 300 rpm

Power supply: Single phase, 220V, 50Hz

Motor power: 550W

Dimensions: 730 x 450 x 370 mm

Net weight: 37 Kg



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METAPOL-1200D

Metallographic Sample GRINDING

& POLISHING MACHINE

DUAL-SPEED

Model METAPOL 1200D Dual-speed Metallographic specimen grinding and polishing machine is equipped with single disc and features two level constant speeds for grinding and polishing. It can finish the whole process of rough grinding, fine grinding, rough polishing and finishing polishing for specimen preparing. It is the necessary metallographic specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.



Technical specifications

- Diameter of working disc: 200 mm
- Rotating speed of working disc:
Two level constant speed of 300 rpm and 600 rpm
(150 rpm and 300 rpm are optional)
- Power supply: three phases, 380V, 50Hz
- Motor power: 370W
- Dimensions: 730 x 450 x 370 mm
- Net weight: 35 Kg

Features

- Two level constant speed of 300 and 600 rpm
- Quick exchanging disc. The working disc can be changed and replaced swiftly.

METAPOL-1200S

Metallographic Sample GRINDING

& POLISHING MACHINE

DUAL-SPEED



Model METAPOL 1200S Metallographic specimen grinding and polishing machine is equipped with single disc and features stepless speed changing for grinding and polishing. It can finish the whole process of rough grinding, fine grinding, rough polishing and finishing polishing for specimen preparing. By adjusting the transducer, it can realize the rotating speed of grinding and polishing disc adjustable from 50 to 1000 rpm. This bring this machine with much more extensive applying and make it become the necessary metallographic specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.

Technical specifications

- Diameter of working disc: 200mm
- Rotating speed of working disc:
Stepless speed changing 50-1000 rpm
(other speeds are optional)
- Power supply: Single phase, 220V, 50Hz
- Motor power: 550W
- Dimensions: 730 x 450 x 370 mm
- Net weight: 35 Kg

Features

- Stepless speed changing 50-1000 rpm
- FWD and REV rotating direction control
- Quick exchanging disc. The working disc can be changed and replaced swiftly.

METAPOL-1250D

Metallographic Sample GRINDING

& POLISHING MACHINE

DUAL-SPEED



Features

- Two level constant speed of 300 and 600 rpm
- Quick exchanging disc. The working disc can be changed and replaced swiftly.

Technical specifications

- Diameter of working disc: 250 mm
- Rotating speed of working disc:
Two level constant speed of 300 rpm and 600 rpm
(150 rpm and 300 rpm are optional)
- Power supply: three phases, 380V, 50Hz
- Motor power: 370W
- Dimensions: 730 x 450 x 370 mm
- Net weight: 35 Kg

Model METAPOL 1250D Dual-speed Metallographic specimen grinding polishing machine is equipped with single disc and features two level constant speeds for grinding and polishing. It can finish the whole process of rough grinding, fine grinding, rough polishing and finishing polishing for specimen preparing. It is the necessary metallographic specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.



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METAPOL-1250S

Metallographic Sample GRINDING

& POLISHING MACHINE

DUAL-SPEED

Features

- Stepless speed changing 50-1000 rpm
- FWD and REV rotating direction control
- Quick exchanging disc. The working disc can be changed and replaced swiftly.

Technical specifications

- Diameter of working disc: 250mm
- Rotating speed of working disc: Stepless speed changing 50-1000 rpm
(other speeds are optional)
- Power supply: Single phase, 220V, 50Hz
- Motor power: 550W
- Dimensions: 730 x 450 x 370 mm
- Net weight: 35 Kg



Model METAPOL 1250S Metallographic specimen grinding and polishing machine is equipped with single disc and features stepless speed changing for grinding and polishing. It can finish the whole process of rough grinding, fine grinding, rough polishing and finishing polishing for specimen preparing. By adjusting the transducer, it can realize the rotating speed of grinding and polishing disc adjustable from 50 to 1000 rpm. This bring this machine with much more extensive applying and make it become the necessary metallographic specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.



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METAPOL-1250X

Metallographic Sample GRINDING
& POLISHING MACHINE

DUAL-SPEED

Technical specifications

Stepless Speed changing: 100-1000 rpm
(FWD & REV rotating directions can be switched)
Three-level constant speed: V1=300rpm, V2=500rpm,
V3=800rpm (or customizable)
Disc diameter: 250mm (Optional 230mm, 200mm)
Power: 750W, 220V, 50/60Hz
Overall Dimensions: 760×420×350mm
Net weight: 29Kg



Features

- Multi-usage, metallographic specimen of coarse grinding, fine grinding, coarse and fine polishing, one machine to complete
- Grinding disc diameter: 250 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 100-1000 rpm
- 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: clockwise and counterclockwise are 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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METAPOL-1250X

Metallographic Sample GRINDING
& POLISHING MACHINE

DUAL-SPEED

Technical specifications

Stepless Speed changing: 100-1000 rpm
FWD & REV rotating directions can be switched)
Three-level constant speed: V1=300rpm, V2=500rpm,
V3=800rpm (or customizable)
Disc diameter: 250mm (Optional 230mm, 200mm)
Power: 750W, 220V, 50/60Hz
Overall Dimensions: 760×420×350mm
Net weight: 29Kg



Standard Accessory

Name	Quantity	Name	Quantity
Magnetic working plate (250mm)	1 piece	Anti-sticky disc (250mm)	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	1bottle	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 certificate	1 set
Machine manual	1 set	Packing list	1 set



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METAPOL-1250X

Metallographic Sample GRINDING
& POLISHING MACHINE

DUAL-SPEED

Technical specifications

Stepless Speed changing: 100-1000 rpm
FWD & REV rotating directions can be switched)
Three-level constant speed: V1=300rpm, V2=500rpm,
V3=800rpm (or customizable)
Disc diameter: 250mm (Optional 230mm, 200mm)
Power: 750W, 220V, 50/60Hz
Overall Dimensions: 760×420×350mm
Net weight: 29Kg



Optional Accessory

Metallographic grinding paper	G SC250A	<ul style="list-style-type: none">• 100 pieces /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: 5 pieces/box• Diameter: Φ250mm• Surface coating with Special anti-sticky layer, can attach the sticky paper and polishing cloth directly, and easily replace without sticky mark.• Can be reused
Polishing cloth	FT250A	<ul style="list-style-type: none">• Polishing cloth 10 pieces/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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METAPOL-1000

AUTOMATIC GRINDING & POLISHING MACHINE

Model METAPOL 1000 Metallographic specimen grinding and polishing machine is equipped with single disc and features stepless speed changing and three-level constant speed for grinding and polishing. The working time can be preset and the rotating direction can be controlled. It can finish the whole process of rough grinding, fine grinding, rough polishing and finishing polishing for specimen preparing. It is the necessary metallographic specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.

Features:

- Stepless speed changing of 50-1000 rpm, and three-level constant speed of 300, 600 and 900 rpm
- Working time presetting
- FWD and REV rotating direction control
- Quick exchanging disc. The working disc can be changed and replaced swiftly.

Technical specifications

Diameter of working disc: 250mm

Rotating speed of working disc:

- stepless speed changing 50-1000 rpm, and three-level
- constant speeds of 300 / 600 / 900 rpm

Working time presetting: 5-360 minutes

Power supply: Single phase, 220V, 50Hz

Motor power: 550W

Dimensions: 730 x 450 x 370 mm



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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

METAPOL-2



Application and Feature

Model METAPOL-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 discs and different grinding and polishing materials, it can realize the process of rough grinding, fine grinding, rough polishing and finishing polishing. 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.

Features:

- Two level constant speed of 450 rpm (grinding disc) and 600 rpm (polishing disc)
- Equipped with water cooling tap.



specifications

Diameter of working disc: \varnothing 200mm or 250mm (\varnothing 230mm is optional)

Diameter of sand paper or polishing textile: 200mm or 250mm

Rotating speed of grinding disc: 450 rpm

Rotating speed of polishing disc: 600 rpm

Motor power: 370W

Power supply: Single phase, 220V, 50Hz

Dimensions: 70 × 67 × 32 cm

Net weight: 40 Kg



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METAPOL-2B

METALLOGRAPHY

SPECIMEN GRINDING&POLISHING



Application and Feature

Model METAPOL-2B Metallographic specimen grinding & polishing machine is equipped with double discs and features stepless speed changing grinding and polishing. It can finish the whole process of rough grinding, fine grinding, rough polishing and finishing polishing for specimen preparing. By adjusting the transducer, it can realize the rotating speed of grinding and polishing disc adjustable from 50 to 1000 rpm. This brings this machine with much more extensive applying and makes it become the necessary metallographic specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.

Features:

- Stepless speed changing from 50 rpm to 1000 rpm
- Quick exchanging disc. The working disc can be changed and replaced swiftly.
- Equipped with water cooling tap.



specifications

Digital display of rotating speed of grinding and polishing discs

Diameter of working disc: Ø200mm or 250mm

(Ø230mm grinding disc with groove is optional)

Diameter of sand paper or polishing textile: 200mm or 250mm

Rotating speed of grinding disc & polishing disc: 50-1000 rpm stepless speed changing

Motor power: 550W

Power supply: Single phase, 220V, 50Hz

Dimensions: 70 × 67 × 32 cm

Net weight: 45 Kg



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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

METAPOL-2C

Application and Feature

Model METAPOL-2C Metallographic specimen grinding & polishing machine is equipped with double discs, and it can finish grinding or polishing with two different speeds. The rotating speed can be switched between 300rpm and 600rpm. With double discs and different grinding and polishing materials, it can realize the process of rough grinding, fine grinding, rough polishing and finishing polishing. 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.

Features:

- Double constant speeds of 300 rpm / 600 rpm
- Quick exchanging disc. The working disc can be changed and replaced swiftly.
- Equipped with water cooling tap.



specifications

Diameter of working disc: Ø200mm or 250mm

(Ø230mm grinding disc with groove is optional)

Diameter of sand paper or polishing textile: 200mm or 250mm

Rotating speed of grinding disc & polishing disc: 300rpm / 600rpm (switchable)

Motor power: 750W

Power supply: 3-phase, 380V, 50Hz

Dimensions: 70 × 67 × 32 cm

Net weight: 40 Kg



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METALLOGRAPHY

SPECIMEN GRINDING & POLISHING

METAPOL-2E



Application and Feature

Model METAPOL-2E Metallographic specimen grinding & polishing machine is equipped with double discs, and it can finish grinding or polishing with three different speeds. The rotating speed can be switched between 300rpm / 600rpm / 900 rpm. With double discs and different grinding and polishing materials, it can realize the process of rough grinding, fine grinding, rough polishing and finishing polishing. 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.

Features:

- Three constant speeds of 300 rpm / 600 rpm / 900 rpm
- Quick exchanging disc. The working disc can be changed and replaced swiftly.
- Equipped with water cooling tap.



specifications

Diameter of working disc: Ø200mm or 250mm

(Ø230mm grinding disc with groove is optional)

Diameter of sand paper or polishing textile: 200mm or 250mm

Rotating speed of grinding disc & polishing disc: 300rpm / 600rpm / 900 rpm (switchable)

Motor power: 750W

Power supply: Single phase, 220V, 50Hz

Dimensions: 70 × 67 × 32 cm

Net weight: 45 Kg



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DUAL-SPEED

AUTOMATIC GRINDING
& POLISHING MACHINE

METAPOL-300S

Model METAPOL 300S Dual-speed Metallographic specimen grinding and polishing machine is equipped with single disc and features two level constant speeds for grinding and polishing. It can finish the whole process of rough grinding, fine grinding, rough polishing and finishing polishing for specimen preparing. It is the necessary metallographic specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.

Features:

- Two level constant speed of 300 and 600 rpm (or 150 & 300 rpm customized)
- Quick exchanging disc. The working disc can be changed and replaced swiftly.



Technical specifications

Diameter of working disc: 300mm

Rotating speed of working disc: Two-level constant speed of 300 / 600 rpm
(or 150 / 300 rpm customized)

Motor power: 370W

Power supply: Three phases, 380V, 50Hz

Dimensions: 870 x 760 x 560 mm

Net weight: 58 Kg



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METAPOL-300SE

AUTOMATIC GRINDING

& POLISHING MACHINE

Model METAPOL 300SE Metallographic specimen grinding and polishing machine is equipped with double discs and features step less speed changing for grinding and polishing. It can finish the whole process of rough grinding, fine grinding, rough polishing and finishing polishing for specimen preparing. By adjusting the transducer, it can realize the rotating speed of grinding and polishing disc adjustable from 50 to 600 rpm. This bring this machine with much more extensive applying and make it become the necessary metallographic specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.

Features:

- Stepless speed changing of 50-600 rpm, and two level constant speed of 150 and 300 rpm
- FWD and REV rotating direction control
- Quick exchanging disc. The working disc can be changed and replaced swiftly.

Technical specifications

Diameter of working disc: 300mm
Rotating speed of working disc:
stepless speed changing 50-600 rpm,
and two-level constant speed of 150 / 300 rpm
Power supply: Single phase, 220V, 50Hz
Motor power: 550W
Dimensions: 870 x 760 x 560 mm
Net weight: 58 Kg



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METAPOL-2000P

Metallographic Sample GRINDING
& POLISHING MACHINE

AUTOMATIC



Technical specifications

- Six pieces $\text{O}30\text{mm}$ samples can be grinded and polished simultaneously.
- Both grinding disc and polishing head adopt stepless speed control, and the rotating direction of grinding disc can be shifted.
- Pneumatic single point loading, fix the sample and then it can complete the whole process of grinding and polishing, and this can ensure the plane parallelism of sample.
- Working time and rotating speed presetting
- Quick exchanging disc. The working disc can be changed and replaced swiftly.

Optional Accessory

Model METAPOL 2000P is a kind of double disc pneumatic type automatic metallographic specimen grinding and polishing machine equipped with automatic polishing head and features stepless speed changing and four-level constant speed for grinding and polishing. The working time can be preset and the rotating direction can be controlled. It can finish the whole process of rough grinding, fine grinding, rough polishing and finishing polishing for specimen preparing. It is the necessary metallographic specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.



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METAPOL-2000X

Metallographic Sample GRINDING
& POLISHING MACHINE

AUTOMATIC



Features:

Model METAPOL 2000X Automatic Metallographic specimen grinding and polishing machine is equipped with automatic polishing head and features stepless speed changing and three-level constant speed for grinding and polishing. The working time can be preset and the rotating direction can be controlled. It can finish the whole process of rough grinding, fine grinding, rough polishing and finishing polishing for specimen preparing. It is the necessary metallographic specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.

- DOUBLE GRINDING & POLISHING DISCS
- SIX PIECES Φ 30MM SAMPLES CAN BE GRINDED AND POLISHED SIMULTANEOUSLY.
- BOTH GRINDING DISC AND POLISHING HEAD ADOPT STEPLESS SPEED CONTROL, AND THE ROTATING DIRECTION OF GRINDING DISC CAN BE SHIFTED.
- ELECTRIC CENTRAL FORCE HOLDING, FIX THE SAMPLE AND THEN IT CAN COMPLETE THE WHOLE PROCESS OF GRINDING AND POLISHING, AND THIS CAN ENSURE THE PLANE PARALLELISM OF SAMPLE.
- THE LOADING FORCE CAN BE ADJUSTED DURING RUNNING PROCESS.
- WORKING TIME PRESETTING
- QUICK EXCHANGING DISC. THE WORKING DISC CAN BE CHANGED AND REPLACED SWIFTLY.

Technical specifications

Diameter of working disc: 250mm (200mm or 300mm is optional)

Rotating speed of working disc: stepless speed changing 50–1000 rpm, and three-level constant speeds of 300 / 600 / 900 rpm

Rotating speed of polishing head: stepless speed changing 5–100 rpm

Sample holder: Φ 30mm, 6-hole (or customized)

Sample preparing time: 60–999 seconds

Pressure range: 5–170N

Power supply: Single phase, 220V, 50Hz

Input power: 700W

Dimensions: 980 x 920 x 900 mm

Net weight: 86 Kg



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METAPOL-2200D



Metallographic Sample GRINDING
& POLISHING MACHINE

DUAL-SPEED

Model METAPOL 2200D Dual-speed Metallographic specimen grinding and polishing machine is equipped with double discs and features two level constant speeds for grinding and polishing. It can finish the whole process of rough grinding, fine grinding, rough polishing and finishing polishing for specimen preparing. It is the necessary metallographic specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.

Features:

- TWO LEVEL CONSTANT SPEED OF 300 AND 600 RPM
- QUICK EXCHANGING DISC. THE WORKING DISC CAN BE CHANGED AND REPLACED SWIFTLY.

Technical specifications

- Diameter of working disc: 200 mm
- Rotating speed of working disc: Two level constant speed of 300 rpm and 600 rpm (150 rpm and 300 rpm are optional)
- Power supply: three phases, 380V, 50Hz
- Motor power: 370W
- Dimensions: 870 x 760 x 560 mm
- Net weight: 56 Kg

DUAL-SPEED



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METAPOL-2200S



Metallographic Sample GRINDING
& POLISHING MACHINE

AUTOMATIC

Model METAPOL 2200S Metallographic specimen grinding and polishing machine is equipped with double discs and features stepless speed changing for grinding and polishing. It can finish the whole process of rough grinding, fine grinding, rough polishing and finishing polishing for specimen preparing. By adjusting the transducer, it can realize the rotating speed of grinding and polishing disc adjustable from 50 to 1000 rpm. This brings this machine with much more extensive applying and makes it become the necessary metallographic specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.

Features:

- Stepless speed changing 50-1000 rpm
- FWD and REV rotating direction control
- Quick exchanging disc. The working disc can be changed and replaced swiftly.

Technical specifications

Diameter of working disc: 200mm

Rotating speed of working disc: Stepless speed changing 50–1000 rpm
(other speeds are optional)

Power supply: Single phase, 220V, 50Hz

Motor power: 550W

Dimensions: 870 x 760 x 560 mm

Net weight: 56 Kg

AUTOMATIC METALLOGRAPHIC



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METAPOL-2250D



Metallographic Sample GRINDING
& POLISHING MACHINE

DUAL-SPEED

Model METAPOL 2250D Dual-speed Metallographic specimen grinding and polishing machine is equipped with double discs and features two level constant speeds for grinding and polishing. It can finish the whole process of rough grinding, fine grinding, rough polishing and finishing polishing for specimen preparing. It is the necessary metallographic specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.

Features:

- Two level constant speed of 300 and 600 rpm
- Quick exchanging disc. The working disc can be changed and replaced swiftly.

Technical specifications

Diameter of working disc: 250 mm

**Rotating speed of working disc: Two level constant speed of 300 rpm and 600 rpm
(150 rpm and 300 rpm are optional)**

Power supply: three phases, 380V, 50Hz

Motor power: 370W

Dimensions: 870 x 760 x 560 mm

Net weight: 56 Kg

DUAL SPEED METALLOGRAPHIC



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METAPOL-2250S



Metallographic Sample GRINDING
& POLISHING MACHINE

AUTOMATIC

Model METAPOL 2250S Metallographic specimen grinding and polishing machine is equipped with double discs and features stepless speed changing for grinding and polishing. It can finish the whole process of rough grinding, fine grinding, rough polishing and finishing polishing for specimen preparing. By adjusting the transducer, it can realize the rotating speed of grinding and polishing disc adjustable from 50 to 1000 rpm. This brings this machine with much more extensive applying and makes it become the necessary metallographic specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.

Features:

- Stepless speed changing 50-1000 rpm
- FWD and REV rotating direction control
- Quick exchanging disc. The working disc can be changed and replaced swiftly.

Technical specifications

AUTOMATIC METALLOGRAPHIC

Diameter of working disc: 250mm

Rotating speed of working disc: Stepless speed changing 50-1000 rpm
(other speeds are optional)

Power supply: Single phase, 220V, 50Hz

Motor power: 550W

Dimensions: 870 x 760 x 560 mm

Net weight: 56 Kg



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AUTOMATIC

METAPOL-2250

AUTOMATIC METALLOGRAPHIC



Features

- Multi-usage, metallographic specimen of coarse grinding, fine grinding, coarse and fine polishing, one machine to complete
- Grinding disc diameter: 250 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 100-1000 rpm
- 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



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METAPOL-2250

AUTOMATIC METALLOGRAPHIC



STANDARD ACCESSORY

Name	Quantity	Name	Quantity
Magnetic working plate (250mm)	2 pieces	Anti-sticky disc (250mm)	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, 6 micron, 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 certificate	1 set
Machine manual	1 set	Packing list	1 set

Optional Accessory

Metallographic grinding paper	GSC250A	<ul style="list-style-type: none">• 100 pieces /package• Material: black carborundum• Sand size: P80# 120# 180# 320# 600# 800# 1000# 1200# 1500# 2000#• Size: Ø250mm• 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: 5 pieces/box• Diameter: Ø250mm• Surface coating with Special anti-sticky layer, can attach the sticky paper and polishing cloth directly, and easily replace without sticky mark.
Polishing cloth	FT250A	<ul style="list-style-type: none">• Can be reused• Polishing cloth 10 pieces/package• Velvet fabric(long floss) / canvas (short floss) / Woolen cloth (short floss) / silk cloth (no floss)• Ø250mm• 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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METAPOL-1000P

AUTOMATIC GRINDING

& POLISHING MACHINE

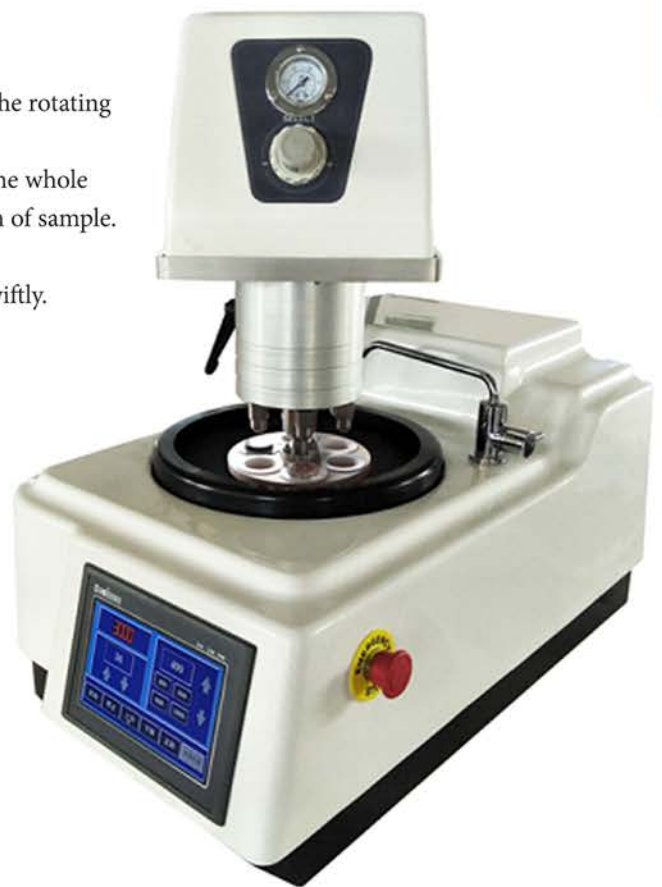
Model METAPOL 1000P is a kind of pneumatic type automatic metallographic specimen grinding and polishing machine equipped with automatic polishing head and features stepless speed changing and four-level constant speed for grinding and polishing. The working time can be preset and the rotating direction can be controlled. It can finish the whole process of rough grinding, fine grinding, rough polishing and finishing polishing for specimen preparing. It is the necessary metallographic specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.

Features:

- Six pieces 30mm samples can be grinded and polished simultaneously.
- Both grinding disc and polishing head adopt stepless speed control, and the rotating direction of grinding disc can be shifted.
- Pneumatic single point loading, fix the sample and then it can complete the whole process of grinding and polishing, and this can ensure the plane parallelism of sample.
- Working time and rotating speed presetting
- Quick exchanging disc. The working disc can be changed and replaced swiftly.

Technical specifications

- Diameter of working disc: 250mm (200mm or 300mm is optional)
 - Rotating speed of working disc:
stepless speed changing 50-1000 rpm, and four-level
constant speeds of 200 / 600 / 800 / 1000 rpm
 - Rotating speed of polishing head: stepless speed changing 5-150 rpm
 - Sample holder: Φ 30mm, 6-hole (or customized)
 - Loading force range: 5-60N
 - Sample preparing time: 0-9999 seconds
 - Power supply: Single phase, 220V, 50Hz
- Motor power: 550W
Dimensions: 750 x 630 x 700 mm



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METAPOL-1000S



Metallographic Sample GRINDING
& POLISHING MACHINE

Technical specifications

Working disc: 8-inch or 10-inch (customization is also available)
Rotating speed: 50-1000rpm (customization is also available)
Motor power: 550W, 220V, 50/60Hz

METAPOL 1000S can be used to grind and polish all kinds of metal and alloy material. Full fiberglass reinforced plastics machine shell and aluminum alloy base make sure that there will be no rust during long time using. The rotation of motor is controlled by converter, the unique design makes the machine with the functions of programmable speed setting and rotating timing setting, which will greatly increase the working efficiency and benefit the operator to rapidly change another batch specimen without any further setting.

Features:

- Basing on the requirements of sample preparation, by the programming function we can preset the three classes speeds as you like, generally by low, middle and high speed.
- The machine has timing function, by this function we can set the grinding or polishing running time, when the grinding or polishing starts, the water valve starts synchronically. When the grinding or polishing is off, the water valve is off synchronically.
- One key setting clockwise or anticlockwise rotating.
- Rotating speed and running time is displayed lively on the window.
- Electromagnetic water valve is available

Section zooming:



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METAPOL-1000S

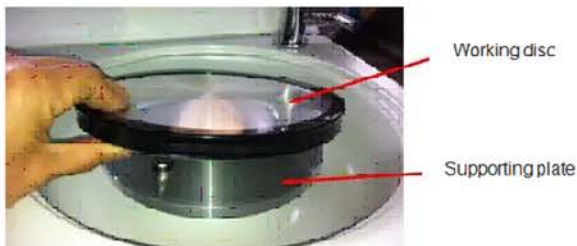
Metallographic Sample GRINDING & POLISHING MACHINE



Technical specifications

- Power: Single phase, 220V, 50Hz or three phases, 380V, 50HZ
- Rotate speed: stepless speed 50-200 rpm
- Sample force: 0-40N
- Sample capacity: 1-3

Working disc changing schematic pic.:



Optional magnetic disc mounting details (one set of magnetic disc is with one adhesive magnetic rubber disc and 5 pcs. Of anti-sticking discs):



After above step, you can place the anti-sticky disc on the magnetic disc, then it will be magnetized on the magnetic disc firmly.



This MPS polishing and grinding head is designed according to investigation and researches on the market and customers' requirements. MPS features stepless speed changing and it 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, MP-1C, MP-2B, MP 260, MP 260E, MP 2D, MP 2DE and META-POL series etc. It is easy-to-use, and the quality of finished sample is high. MPS 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.

METAPOL-1000X

Metallographic Sample GRINDING & POLISHING MACHINE

Model METAPOL 1000X Automatic Metallographic specimen grinding and polishing machine is equipped with automatic polishing head and features stepless speed changing and three-level constant speed for grinding and polishing. The working time can be preset and the rotating direction can be controlled. It can finish the whole process of rough grinding, fine grinding, rough polishing and finishing polishing for specimen preparing. It is the necessary metallographic specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.



Technical specifications

- Diameter of working disc: 250mm (200mm or 300mm is optional)
- Rotating speed of working disc:
stepless speed changing 50-999 rpm, and three-level constant speeds of 300 / 600 / 900 rpm
- Rotating speed of polishing head: stepless speed changing 1-100 rpm
- Sample holder: 30mm, 6-hole (or customized)
- Sample preparing time: 0-999 minutes
- Pressure range: 0-300N
- Power supply: Single phase, 220V, 50Hz
- Motor power: 550W
- Dimensions: 920 x 530 x 680 mm
- Net weight: 65 Kg

Features

- Six pieces Φ 30mm samples can be grinded and polished simultaneously.
- Both grinding disc and polishing head adopt stepless speed control, and the rotating direction of grinding disc can be shifted.
- Electric central force holding, fix the sample and then it can complete the whole process of grinding and polishing, and this can ensure the plane parallelism of sample.
- The loading force can be adjusted during running process.
- Working time presetting
- Quick exchanging disc. The working disc can be changed and replaced swiftly.

AUTOPOL-1000

NEW



Features

- Six pieces 30mm samples can be polished simultaneously
- Single point pneumatic holding, no need for sample clamping
- Multi-usage, one machine to complete the whole process of metallographic rough grinding, fine grinding, rough polishing and fine polishing
- Stable and reliable SCM system control, transducer variable speed control
- Manual and automatic modes of grinding disc & grinding head are optional
- Manual mode of grinding disc: customer can define three constant speeds (V1, V2, V3) for different process of pre-grinding, grinding and polishing
- Variable speed of grinding disc: grinding speed 100-1000 rpm
- Automatic mode of grinding disc: Eight sections programmable speed and corresponding working time control, automatic stop, convenient for customer to change sand paper, polishing textile and get sample
- The water supply can be controlled by electromagnetic valve. There is automatic water cleaning device under grinding disc and it can clean the inside wall automatically.
- Magnetic anti-sticky disc can be replaced easily and it can finish the rough grinding, fine grinding, rough polishing and fine polishing for various samples continuously.
- High accuracy, stable running, low noise.
- Beautiful outlook and good quality

Specifications

Magnetic grinding disc diameter: 250mm (optional 200mm, 230mm)
Sample holder: 6-hole, 30mm (or 3-hole, 40- 50mm 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: 760x 490 x 650 mm
Net weight: 63Kg

AUTOMATIC GRINDING
& POLISHING MACHINE



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AUTOPOL-1000

NEW



Standard accessory

Name	Quantity	Name	Quantity
Magnetic working plate (250mm)	1 piece	Anti-sticky disc (250mm)	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, 6 micron, 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 certificate	1 set
Machine manual	1 set	Packing list	1 set

AUTOMATIC GRINDING & POLISHING MACHINE

Optional Accessory

Metallographic grinding paper	GSC250A	<ul style="list-style-type: none">• 100 pieces /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: 5 pieces/box• Diameter: Φ250mm• Surface coating with Special anti-sticky layer, can attach the sticky paper and polishing cloth directly, and easily replace without sticky mark.
Polishing cloth	FT250A	<ul style="list-style-type: none">• Can be reused• Polishing cloth 10 pieces/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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AUTOPOL-1000X

AUTOMATIC GRINDING & POLISHING MACHINE

Features

- HMI interface & SCM control, stable and reliable system
- 7" Touch screen LCD display interface, simple operation & convenient parameter setting
- Six pieces \square 30mm samples can be grinded and polished simultaneously.
- Both grinding disc and head adopt stepless speed control, and the rotating direction of grinding disc can be shifted.
- Electric central force holding, fix the sample and then it can complete the whole process of grinding and polishing, and this can ensure the plane parallelism of sample.
- The loading force can be adjusted during running process.
- The water supply can be controlled by electromagnetic valve. There is automatic water cleaning device under grinding disc and it can clean the inside wall automatically.
- Magnetic anti-sticky disc can be replaced easily and it can finish the rough grinding, fine grinding, rough polishing and fine polishing for various samples continuously.
- High accuracy, stable running, low noise.
- Beautiful outlook and good quality



Technical Specifications



- Grinding disc diameter: 250mm magnetic disc (Φ 200mm and Φ 230mm are optional)
- Grinding disc rotating speed: 100-1000 rpm
- FWD & REV rotating directions can be switched
- Grinding head speed: 0-100 rpm
- Sample preparing time: 0-9999s
- Loading force type: central force electric loading
- Loading force range: 30-200N
- Sample holder: 6-hole, Φ 30mm (optional 4-hole, Φ 40mm, Φ 50mm, or customized)
- Power supply: AC 220V, 50Hz, single phase
- Motor power: 750W
- Overall Dimensions: 790x 490 x 660 mm
- Net weight: 61 Kg



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ได้ที่ Line Official : @itokin2000.com (มี@ด้วยนะครับ)

AUTOPOL-1000X

NEW

AUTOMATIC GRINDING & POLISHING MACHINE

Standard Accessory

Name	Quantity	Name	Quantity
Magnetic working disc (250mm)	1 piece	Anti-sticky disc (250mm)	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 micron, 200ml	1 bottle	Lubrication cooling liquid, blue, 200ml	1 bottle
Φ30mm Sample holder	1 set	Input-water pipe adapter	1 piece
Input-water pipe	1 piece	Power cable	1 piece
Output-water pipe	1 piece	Signal cable	1 piece
Power transfer cable	1 piece	Machine certificate	1 set
Machine manual	1 set	Packing list	1 set

Optional Accessory



Metallographic grinding paper	GSC250A	<ul style="list-style-type: none">• 100 pieces /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	MAGNET	<ul style="list-style-type: none">• Anti-sticky disc: 5 pieces/box• Diameter: Φ250mm• Surface coating with Special anti-sticky layer, can attach the sticky paper and polishing cloth directly, and easily replace without sticky mark.• Can be reused
Polishing cloth	FT250A	<ul style="list-style-type: none">• Polishing cloth 10 pieces/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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AUTOPOL-2000

AUTOMATIC GRINDING & POLISHING MACHINE



Features

- Six pieces Φ 30mm samples can be polished simultaneously
- Single point pneumatic holding, no need for sample clamping-
- Multi-usage, one machine to complete the whole process of metallographic rough grinding, fine grinding, rough polishing and fine polishing
- Stable and reliable SCM system control, transducer variable speed control
- Manual and automatic modes of grinding disc & grinding head are optional
- Manual mode of grinding disc: customer can define three constant speeds (V1, V2, V3) for different process of pre-grinding, grinding and polishing
- Variable speed of grinding disc: grinding speed 100-1000 rpm
- Automatic mode of grinding disc: Eight sections programmable speed and corresponding working time control, automatic stop, convenient for customer to change sand paper, polishing textile and get sample
- The water supply can be controlled by electromagnetic valve. There is automatic water cleaning device under grinding disc and it can clean the inside wall automatically.
- Magnetic anti-sticky disc can be replaced easily and it can finish the rough grinding, fine grinding, rough polishing and fine polishing for various samples continuously.
- High accuracy, stable running, low noise.
- Beautiful outlook and good quality



Technical specifications

- Magnetic grinding disc diameter:** 250mm (optional 200mm, 230mm)
- Sample holder:** 6-hole, Φ 30mm (or 3-hole, Φ 40- Φ 50mm 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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AUTOPOL-2000

AUTOMATIC GRINDING & POLISHING MACHINE



Standard accessory

Name	Quantity	Name	Quantity
Magnetic working plate (250mm)	2 pieces	Anti-sticky disc (250mm)	2 pieces
One side sticky grinding paper (250mm) 320#, 1000#	10 pieces/each	One side sticky polishing doth (250mm), velvet fabric	1 piece
Diamond polishing liquid, 6 micron, 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 certificate	1 set
Machine manual	1 set	Packing list	1 set



Optional Accessory

Metallographic grinding paper	GSC250A	<ul style="list-style-type: none">• 100 pieces /package• Material: black carborundum• Sand size: P80# 120# 180# 320# 600# 800# 1000# 1200# 1500# 2000#• Size: ϕ 250mm• 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: 5 pieces/box• Diameter: ϕ 250mm• Surface coating with Special anti-sticky layer, can attach the sticky paper and polishing cloth directly, and easily replace without sticky mark.
Polishing cloth	FT250A	<ul style="list-style-type: none">• Can be reused• Polishing cloth 10 pieces/package• Velvet fabric(long floss) / canvas (short floss)/ Woolen cloth (short floss) / silk cloth (no floss)• ϕ 250mm• 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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AUTOPOL-2000 X

AUTOMATIC GRINDING
& POLISHING MACHINE



Features

- HMI interface & SCM control, stable and reliable system
- 7" Touch screen LCD display interface, simple operation & convenient parameter setting
- Six pieces 30mm samples can be grinded and polished simultaneously.
- Both grinding disc and head adopt stepless speed control, and the rotating direction of grinding disc can be shifted.
- Electric central force holding, fix the sample and then it can complete the whole process of grinding and polishing, and this can ensure the plane parallelism of sample.
- The loading force can be adjusted during running process.
- The water supply can be controlled by electromagnetic valve. There is automatic water cleaning device under grinding disc and it can clean the inside wall automatically.
- Magnetic anti-sticky disc can be replaced easily and it can finish the rough grinding, fine grinding, rough polishing and fine polishing for various samples continuously.
- High accuracy, stable running, low noise.
- Beautiful outlook and good quality



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AUTOPOL-2000 X

AUTOMATIC GRINDING
& POLISHING MACHINE



Specifications

Grinding disc diameter: 250mm magnetic disc
(Φ 200mm and Φ 230mm are optional)

Grinding disc rotating speed: 100-1000 rpm

FWD & REV rotating directions can be switched

Grinding head speed: 0-100 rpm

Sample preparing time: 0-9999s

Loading force type: central force loading

Loading force range: 30-200N

Sample holder: 6-hole, Φ 30mm (optional 4-hole, Φ 40mm, Φ 50mm, or customized)

Power supply: AC 220V, 50Hz, single phase

Motor power: 750W

Overall Dimensions: 790x 730 x 660 mm

Net weight: 74 Kg



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AUTOPOL-2000 X

AUTOMATIC GRINDING & POLISHING MACHINE



Standard Accessory

Name	Quantity	Name	Quantity
Magnetic working disc (250mm)	2 pieces	Anti-sticky disc (250mm)	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, 6 micron, 200ml	1 bottle	Lubrication cooling liquid, blue, 200ml	1 bottle
Φ30mm Sample holder	1 set	Input-water pipe adapter	1 piece
Input-water pipe	1 piece	Power cable	1 piece
Output-water pipe	1 piece	Signal cable	1 piece
Power transfer cable	1 piece	Machine certificate	1 set
Machine manual	1 set	Packing list	1 set

Optional Accessory



Metallographic grinding paper	GSC250A	<ul style="list-style-type: none"> • 100 pieces /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: 5 pieces/box • Diameter: Φ250mm • Surface coating with Special anti-sticky layer, can attach the sticky paper and polishing cloth directly, and easily replace without sticky mark. • Can be reused
Polishing cloth	FT250A	<ul style="list-style-type: none"> • Polishing cloth 10 pieces/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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