

Metallurgical Specimen Preparation Machine



Metallurgical Specimen Preparation Machine: Grinder/Polisher



GP260-200(712-401)

GP160-200(712-301)

GPM-200S(712*431)

GP series of Grinder/Polisher :

- GP Grinder/Polisher is to provide the most economical and practical equipment for metallurgical sample preparation. It can meet user's demands
- This series of models are designed and manufactured on the basis of international advanced metallurgical sample preparation methods and sample preparation conditions, which is equipped with the beautiful and practical FRP shell ,in standard parts without never rusty.
- There is a single work disc or two-disc models for selection for quick replacement.
- There is the disc with the size of 200mm, 250mm,300mm for selection.
- Single disc or double disc models has stepless speed or multi-speed to choose.
- E-type machine has stepless speed and fixed-speed at on machine, disc can adjust the polishing direction at random.

Model	Order#	Diameter of Disc	Disc Number	Rotate Speed (rpm)	Remark
GP160-200	712-301	200 mm	1	150 / 300(Double-Speed)	3Phase/380v/50Hz
GP160-250	712-311	250 mm	1	150 / 300(Double-Speed)	3Phase/380v/50Hz
GP160-200S	712*301	200 mm	1	50-600(Stepless Speed)	220V/50Hz
GP160-250S	712*311	250 mm	1	50-600(Stepless Speed)	220V/50Hz
GP260-200	712-401	200 mm	2	150 / 300(Double-Speed)	3Phase/380v/50Hz
GP260-250	712-411	250 mm	2	150 / 300(Double-Speed)	3Phase/380v/50Hz
GP260-200S	712*401	200 mm	2	50-600(Stepless Speed)	220V/50Hz
GP260-250S	712*411	250 mm	2	50-600(Stepless Speed)	220V/50Hz
GP300-300	712-331	300 mm	1	150 / 300(Double-Speed)	3Phase/380v/50Hz
GP300-300S	712*331	300 mm	1	50-600(Stepless Speed)	220V/50Hz
GPM-200	712-431	200 mm	2	150 / 300(Double-Speed)	3Phase/380v/50Hz Two-motor Independent Control System
GPM-250	712-441	250 mm	2	150 / 300(Double-Speed)	
GPM-200S	712*431	200 mm	2	50-600(Stepless Speed)	220V/50Hz Two-motor Independent Control System
GPM-250S	712*441	250 mm	2	50-600(Stepless Speed)	



PH-100 (#712*801)

PH-100 Grinder/Polisher:

PH-100 is an economical product used in the mediate laboratory in the process of making specimens. PH-100 are both used for single sample preparation, The force based on each specimen will be controlled respectively. Therefore ,every time they can prepare for one sample or two samples and three samples rather than empty sample or false sample. PH-100 is an option for factories and mining enterprises, R&D institutes to increase the sampling efficiency

Technical Specification	PH-100 (#712*801)
Rotate Speed	50rpm
Force based on each sample	0-40N
Sample Preparation	1-3Pcs
Power Supply	220V or 380V/50Hz



AGP-100E(#712*811)

AGP-100E Characteristics:

- Mechanical transmission load
- Figures display sample speed
- Load pressure, and adjustable sample time
- disc has two functions of two speed and stepless speed
- Grinding spindle can regulate steplessly
- Beautiful, durable ABS shell, stainless steel standard pats
- Equipped with quick-change polishing disc, multi-style clamps
- Central loading
- Large-capacity automatic abrasive distribution system
- Simultaneously process many pieces of style
- With "one-click fix" program features.



AGP-200C(#712*821)

AGP-200C Characteristics:

- Pneumatic Transmission load
- Figures display sample speed
- Load pressure, and adjustable sample time
- disc has two functions of two speed and stepless speed
- Grinding spindle can regulate steplessly
- Beautiful, durable ABS shell, stainless steel standard pats
- Equipped with quick-change polishing disc, multi-style clamps
- Central loading
- Large-capacity automatic abrasive distribution system
- Simultaneously process many pieces of style
- With "one-click fix" program features.

Technical Specification	AGP-100E	AGP-200C
Order#	712 * 811	712 * 821
Rotate Speed	50-600rpm (stepless speed) or 150rpm,300rpm(two speed)	50-600rpm (stepless speed) or 150rpm,300rpm(two speed)
Ranges	1-200N	1-225N
Sample Time	0-999s	0-9999s
Diameter of Grinding/Polishing Disc	∅250	∅250
Cutting Power	220V, 50Hz	220V, 50Hz
Machine Dimension	660 × 380 × 640mm	660 × 380 × 640mm
Net Weight	45 Kg	45 Kg
Standard Delivery	In and-out pipe 1PC, Quick-replacing Grinding disc 1Pcs, Folder leveler 1Pc	

ABG-1 Abrasive Band Grinder

ABG-1 Abrasive band grinding machine designed and developed by our company according to the international and most advanced sample method, Change different size of sander belt at any time according to necessity. It is easy to replace, and it can replace the grinding machine, pre-polishing machine, handy sandpaper so that each belt need just 1-2minutes to complete the operation. If spectrum samples in the spectrum is polished, we can not only save time and manpower but also save a lot of belts , as well as make sure safety, reduce the cost and make sure quality and increase the efficiency. The machines apply to the enterprises, metallurgical industries as well as Materials R&D testing center, metallurgical testing room and spectrum rooms and so no.



ABG-1(#714-111)

Technical Specification	ABG- 1
Order#	714-111
Roller central distance	255mm
Rotate Speed	1400rpm
Sander belt	100mm wide 920 long
Motor Power	550W
power supply	380V/50Hz
Cooling Style	Water-cooling system and dust-collecting system

ABG-2 Abrasive Band Grinder (Double Abrasive Band)

ABG-2 Abrasive band grinding machine designed and manufactured according to the internationally advanced sample method is a new sample equipment , which uses the belt sander belt to polish so that we can change different size of the belt sander freely in accordance with requirements at random, It can replace the grinding machine, pre-polishing machine, handy sandpaper so that each belt need just 1-2minutes to complete the operation. If spectrum samples in the spectrum is polished, we can not only save time and manpower but also save a lot of belts , as well as make sure safety, reduce the cost and make sure quality and increase the efficiency. The machines apply to the enterprises, metallurgical industries as well as Materials R&D testing center, metallurgical testing room and spectrum rooms and so no.



ABG-32(#714-121)

Technical Specification	ABG-2(#714-121)
Roller central distance	255mm
Rotate Speed	1400rpm
Sander belt	100mm wide 920 long
Surface Speed	768m/min
Motor Power	550W
power supply	380V/50Hz
Dimension	550 x 600 x 310mm
Cooling Style	Water-cooling system and dust-collecting system

ABG-2A Metallurgical Specimen Vertical Sander Polisher

ABG-2A Vertical sander polishing machine is one kind of double functions designed and developed by our company according to the international and most advanced sample method , Change different size of sander belt at any time according to necessity. It is easy to replace and it can replace the grinding machine, pre-polishing machine, handy sandpaper so that each belt need just 1-2 minutes to complete the operation. If spectrum samples in the spectrum is polished, we can not only save time and manpower but also save a lot of belts , as well as make sure safety, reduce the cost and make sure quality and increase the efficiency. The machines apply to the enterprises, metallurgical industries as well as Materials R&D testing center, metallurgical testing room and spectrum rooms and so no.



ABG-2A(#714-131)

Technical Specification	ABG-2A(#714-131)
Roller central distance	274mm
Rotate Speed	1400rpm
Surface Speed	768m/min
Sander belt	100mm wide 1003 long
Motor Power	750W
power supply	380V/50Hz
Dimension	580 x 600 x 950mm
Grinding/Polishing	220 x 120mm
Cooling Style	Water-cooling system and dust-collecting system

PG-2 Metallurgical Specimen Plane Grinder

The machine is used rough grinding operation for metallographic sample. With the adoption of cooling-sample surface, it can not only make sure grinding effect but also take away the scraps of metallographic sample to reduce the environmental pollution, It is easy to operate and reliable to use , which is one of the sampling equipments in the tertiary institutions, industrial and mining enterprise laboratory.



PG-2(#714-141)

Technical Specification	PG-2
Order#	714-141
Rotate Speed	1450rpm
Grinder Specification	350 x 40 x 40mm
Motor Power	3KW
power supply	380V/50Hz
Dimension	550 x 600 x 310mm
Weight	180kg

PG-1 Metallurgical Specimen Plane Grinder :

During the preparation of metallurgical specimen, the surface of the cut specimen or the surface of the unprocessed specimen is rough and uneven, In order to improve the quality to the specimen preparation and the working efficiency, the cut section of the specimen may be first rectified on a rectifying machine and then be pre-ground and polished .PG-1 metallurgical specimen rectifying machine is the fruit of the hard work of various technicians and various requirements As a bench machine ,It is suitable for the water grinding ,dry grinding and lap cutting, easy to operate and maintain with high safety and reliability .The machine is made of plastic moulder by spraying, with its dirt plate and cover made of in oxidizable iron. It is a unique invention in our country, and hence an excellent machine for the preparation of specimen.



PG-1(#714-152)

Technical Specification	PG-1
Order#	714-152
Rotation Speed	1400rpm
Grinder Specification	250 x 30 x 32mm
Motor Specification	AQ 28024
Power Supply	750W/380V/50Hz
Dimension	730 x 420 x 360mm
Net Weight	70kg

MP-1(Single disc, Dual Speed, With Polishing Head) MP-1S(Single disc, Stepless Speed, With Polishing Head)

By change the grinding/polishing disc, MP-1 series single disc grinder/polisher can be used for coarse grinding, fine grinding ,coarse polishing and fine polishing ,MP-1 series operates steadily in low noise , easily change speed and grinder/polisher units.



MP-1(#712-102)

Technical Specification	MP - 1	MP - 1S
Order#	712-102	712*102
Diameter of Grinding Disc	Φ250mm	Φ250mm
Diameter of Sand Paper	Φ230mm	Φ230mm
Diameter of Polishing Disc	Φ220mm	Φ220mm
Diameter of Abrasive Disc	Φ220mm	Φ220mm
Rotation Speed	500-1000rpm	50-1000rpm
Power Supply	380V/50Hz	220V/50Hz
Dimension	360 x 480 x 680mm	360 x 480 x 680mm
Net Weight	70kg	70kg

G2 Metallurgical Specimen Pre-grinder

G2 is one kind of wet-grinding machine, which polish various metal and alloy specimens by use of different granularity of metallurgical sandpaper. It can wipe off heat mark generated from the deformation and surface during the process of cutting a replacing manual operation to increase the efficiency of sampling specimens, which carry out the micro tests for further grinding.



G2(#712-211)

Technical Specification	G2
Order#	712-211
Diameter of Grinding Disc	Φ230mm
Rotation Speed	450rpm(Customization according to the user's requirement)
Power Supply	370W/220V/50Hz
Dimension	690 x 715 x310mm
Net Weight	45kg
Standard Delivery	In and-out pipe 1pc,Polishing fabric 2pcs

GP-2 Metallurgical Specimen Grinder/Polisher

GP-2 is one economical machine combining pre-grinder and polishing operation. The rotating disc acquires different speed through the speed proportion of the belt-wheel so as to realize the grinding and polishing function . The machine is one sampling equipment for the mediate and medium enterprises.



GP-2(#712-201)

Technical Specification	GP-2
Order#	712-201
Diameter of Grinding Disc	Φ230mm
Diameter of Polishing Disc	Φ200mm
Speed of Grinding Disc	450rpm(Customization according to the user's requirement)
Speed of Polishing Disc	600rpm(Customization according to the user's requirement)
Power Supply	370W/220V/50Hz
Dimension	690 x 715 x310mm
Net Weight	45kg
Standard Delivery	In and-out pipe 1pc,Polishing fabric 2pcs

GP-1B/GP-2B Grinder/Polisher

GP-1B、GP-2B are grinder/polisher machine with single or double discs. They may meet the sampling requirement for kibble, fine grinding, rough polishing till fine polishing , which are ideal sampling equipments for the small and medium enterprises.



GP -1B(#712*101)

Technical Specification	GP-1B
Order#	712*101
Diameter of Grinding Disc	Φ230mm
Diameter of Polishing Disc	Φ200mm
Speed of Grinding Disc	50-1000rpm
Speed of Polishing Disc	50-1000rpm
Power Supply	250W/220V/50Hz
Dimension	615 x 380 x270mm
Net Weight	30kg



GP - 2B(#712* 201)

Technical Specification	GP-2B
Order#	712*201
Diameter of Grinding Disc	Φ230mm
Diameter of Polishing Disc	Φ200mm
Speed of Grinding Disc	50-1000rpm
Speed of Polishing Disc	50-1000rpm
Power Supply	550W/220V/50Hz
Dimension	690 x 715 x310mm
Net Weight	45kg

Metallurgical Specimen Preparation Machine: Grinder/Polisher

Applications:

In metallurgical testing laboratory, it is the indispensable procedures about sample's pre-rubbing, grinder and polisher during the cause of metallurgical sample preparation. HP-2 series of grinder/polisher is developed and designed after extensive market surveys in many aspects and absorb users' requirements. It's a newly developed product with novel appearance. It starts steady with high-speed and low noise and it can meet different specimen preparation requirements. It can improve the quality of grinding, polishing and preparing efficiency of the specimen.



HP-2S(Dual-disc, Stepless Speed)
(#712-252)



HP-2F(Dual-disc, Four Speed)
(#712-262)

Technical Specification	HP-2S(Dual-disc, Stepless Speed)	HP-2F(Dual-disc, Four Speed)
Order#	712-252	712-262
Diameter of Grinding Disc	Φ250mm	Φ250mm
Diameter of Sand Paper	Φ230mm	Φ230mm
Diameter of Polishing Disc	Φ220mm	Φ220mm
Rotation Speed	50-1400rpm	300/500/600/1000rpm
Power Supply	350W/220V/50Hz	370W/380V/50Hz
Dimension	700 x 610 x 330mm	700 x 610 x 330mm
Net Weight	80Kg	80Kg



HP-2T(Dual-disc, Dual-Speed)
(#712-272)

Technical Specification	HP-2T(Dual-disc, Dual-Speed)
Order#	712-272
Diameter of Grinding Disc	Φ250mm
Diameter of Sand Paper	Φ230mm
Diameter of Polishing Disc	Φ220mm
Rotation Speed	500/1000rpm
Power Supply	550W/380V/50Hz
Dimension	700 x 610 x 330mm
Net Weight	80Kg

Metallurgical Specimen Preparation Machine: Polisher



P-2G(#712-231)

Technical Specification	P-2G
Order#	712-231
Diameter of Polishing Disc	Φ200mm
Rotation speed	1400rpm
Motor Specification	180W
Power Supply	3Phase/380V/50Hz
Dimension	550 x 820 x 970mm
Standard Delivery	2pcs of polishing cloth



P-1(#712-101)

Technical Specification	P-1
Order#	712-101
Diameter of Polishing Disc	Φ200mm
Rotation speed	1400rpm
Motor Specification	180W
Power Supply	3Phase/380V/50Hz
Dimension	360 x 300 x 320mm
Standard Delivery	1pc of polishing cloth



P-2T(#712-241)

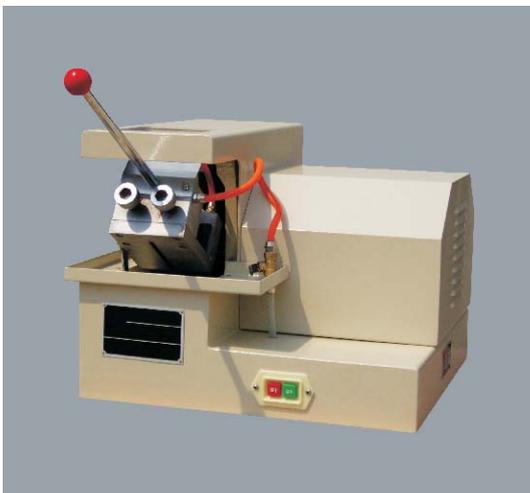
Technical Specification	P-2T
Order#	712-241
Diameter of Polishing Disc	Φ200mm
Rotation speed	1400rpm
Motor Specification	180W
Power Supply	3Phase/380V/50Hz
Dimension	730 x 405 x 308mm
cooling sytle	With cooling system
Standard Delivery	2pcs of polishing cloth

Metallurgical Specimen Preparation Machine: Cutting Machine



MC-30(#711-101)

Technical Specification	MC-30(#711-101)
Max. Cutting Diameter	Φ30mm
Grinder Specification	250 x 2 x 32mm
Rotation speed	2800rpm
Motor Specification	1.1kw
Power Supply	3Phase/380V/50Hz
Dimension	470 x 390 x 360mm
Weight	60Kg



MC-55(#711-111)

Technical Specification	MC-55(#711-111)
Max. Cutting Diameter	Φ55mm
Grinder Specification	300 x 2 x 32mm
Rotation speed	2860rpm
Motor Specification	Y90L-2 2.2kw
Power Supply	3Phase/380V/50Hz
Dimension	650 x 500 x 400mm
Weight	80Kg



MC-50(#711-112)

Technical Specification	MC - 50	MC - 35
Order#	711-112	711-102
Max. cutting section	50 x 50 mm	35 x 35 mm
Cutting disc size	∅300 x 2 x ∅32	∅250 x 2 x ∅32
Rotate Speed	2800 r/min	2800 r/min
Motor Specification	Y90L-2, 2.6KW	Y802-2, 1.2KW
Cutting Power	3Phases/380V/50Hz	3Phases/380V/50Hz
Machine Dimension	740 x 465 x 390mm	650 x 400 x 350mm
Net Weight	70 Kg	55 Kg

Metallurgical Specimen Preparation Machine: Cutting Machine

Metallurgical Specimen Cutting Machine MC-50A:

Specimen cutting is the first step during metallurgical sample preparation. MC-50A adopts high speed rotating thin grinder wheel to cut specimen, and it is equipped with cooling system to prevent the heat damage during cutting. The operation of MC-50A is awfully easy and the maintenance is extremely convenient.



MC-55A(#711-121)

Technical Specification	MC-55A(#711-121)
Max. Cutting Diameter	Φ55mm
Grinder Specification	250 x 2 x 32mm
Rotation speed	2800rpm
Motor Specification	Y90L-2 2.2kw
Power Supply	3Phase/380V/50Hz
Dimension	625 x 500 x 645mm
Weight	80Kg
Cooling Sytle	Independent Cooling system



MC -80(#711-131)

Technical Specification	MC-80(#711-131)	MC-100(#711-141)
Max. Cutting Diameter	Φ80mm	Φ100mm
Grinder Specification	250 x 2 x 32mm	350 x 2.5 x 32mm
Rotation speed	2800rpm	2800rpm
Motor Specification	3.0kw	3.0kw
Power Supply	3Phase/380V/50Hz	3Phase/380V/50Hz
Dimension	720 x 700 x 620mm	720 x 700 x 620mm
Weight	194Kg	194Kg
Working Table	"T-slot" Working table, Double-driving Vise	
Cooling Sytle	Outside Cooling system	

Metallurgical Specimen Preparation Machine: Cutting Machine

Metallurgical Specimen Cutting Machine MC-65 :

Type-MC-65 multiple cutter is mainly used for cutting cylinder and samples of anomalous shape, such as multi-angular shape, protruding board, etc. It adopts the all-sealing structure, which can guarantee the cutting sample under the conditions of absolute safety. In order to avoid the sample burning the material texture because of over-heating in cutting, besides the cutter matching strong cooling system, the sample can revolve in the cutting, which can avoid the sample's surface being burned in the cutting, and can increase the cutting cross section, raising the availability of cutting emery wheel.



MC - 65 (711-132)

Technical Specification	MC - 65
Order#	711-132
Max. cutting section	65 x 65mm
Cutting Disc Size	∅250 × 2 × ∅32mm
Rotate Speed	2800r/min
Motor Specification	YSR 7132 1.1kW
Cutting Power	3Phases/380V/ 50Hz
Machine Dimension	870 x 590 x 1110mm
Net Weight	180Kg

Metallurgical Specimen Cutting Machine MC-65A (quick clamp):

MC-65A model multi-functional cutting machine, is mainly used for cutting irregular general metallurgical sample materials such as round cylinder and polygon and protruding platforms, etc. MC-65A adopts double-shells totally closed structure and quick clamp organization. It can guarantee cutting under absolutely safe status, MC-65A equipped with front, back, left, and right board, the thickness of sample can be changed arbitrarily, and the speed of entering is controllable. In order to avoid the sample organization burns because of being overheated in cutting, MC-65A is furnished with the strong cooling system, and the sample can be transferred arbitrarily to the location while cutting, can avoid little burn of the sample surface while cutting and falling, can increase the cutting section, improve the utilization ratio of cutting emery wheel slice;



MC - 65A (711-142)

Technical Specification	MC - 65A(quick clamp)
Order#	711-142
Max. cutting section	65 x 65mm
Cutting Disc Size	∅250 × 2 × ∅32mm
Rotate Speed	2800r/min
Motor Specification	YS802-2, 1.2kW
Cutting Power	3Phases/380V/ 50Hz
Machine Dimension	700 x 520 x 1110mm
Net Weight	170Kg

Metallurgical Specimen Preparation Machine: Cutting Machine

Metallurgical Specimen Cutting Machine MC-100A:

MC-100A is used to chiefly cut the specimen with cylinder-shaped, multi-angular and ordinary metallurgical specimens with convex space. With a double-cover fully-sealed structure and double clipping clamp structure, which can guarantee the absolute safety under the state of cutting.



MC-100A (#711-162)

Technical Specification	MC-100A
Order#	711-162
Max. cutting section	100 x 100 mm
Cutting disc size	∅350 × 2.5 × ∅32
Rotate Speed	2800 r/min
Motor Specification	Y112M-2,4KW
Cutting power	3Phases/380V/50Hz
Machine Dimensions	800 × 660 × 1380mm
Net Weight	315 Kg

Metallurgical Specimen Cutting Machine MC-120:

MC-120 is used to chiefly cut the specimen with cylinder-shaped, multi-angular and ordinary metallurgical specimens with convex space. With a double-cover fully-sealed structure and double clipping clamp structure, which can guarantee the absolute safety under the state of cutting.



MC-120 (#711-152)

Technical Specification	MC-120
Order#	711-152
Max. cutting section	120 x 120 mm
Cutting disc size	∅400 × 3 × ∅32
Rotate Speed	2800 r/min
Motor Specification	Y112M-2,4KW
Cutting power	3Phases/380V/50Hz
Machine Dimensions	760 × 850 × 1400mm
Net Weight	380 Kg

Metallurgical Specimen Preparation Machine: Cutting Machine

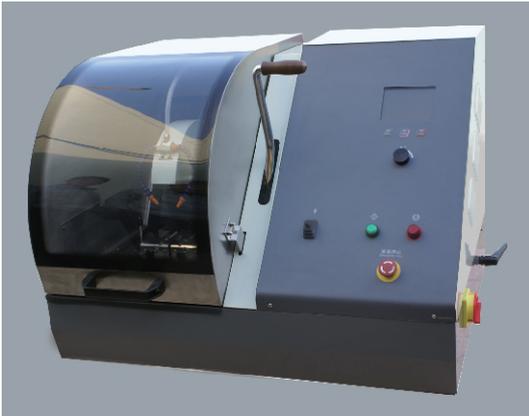


AC-80(# 711-201) /AC-100(#711-211)

AC-80/AC-100 Characteristics

- LCD shows all kinds of parameter
- Cutting capacity:100x200mm
- Manually cutting /Automatic cutting
- Large cutting room, tempered glass observation window
- Improve the cutting quality
- Automatic after cutting
- Increase the depth of cutting

Technical Specification	AC-80 (#711-201)	AC-100 (#711-211)
Cutting Speed	2.25, 3, 4, 5, 7, 9, 12, 15mm/min	2.25, 3, 4, 5, 7, 9, 12, 15mm/min
Cutting Diameter	Φ5-Φ80mm	Φ5-Φ100mm
Rotate Speed	2100rpm	2100rpm
Cutting Disc Size	350 x 2.5 x 32mm	350 x 2.5 x 32mm
Display	LCD with backlight	LCD with backlight
Power Supply	3Phase/380V/50Hz	3Phase/380V/50Hz
Machine Dimension	780 x 800 x 600mm	930 x 700 x 610mm



AC-100A(# 711-231)

AC-100A Characteristics

- Auto/Manual cutting machine
- Maximum Cutting diameter is 100mm with strong cutting capacity
- It is easy to use the joystick and turn push knob
- Constant feed rate make sure minimum deformation
- The function of automatic feed and the function of cutting hard materials quickly
- With the function of quick position and stopped position
- T-slot is easy to install various fixtures
- Cutting room with corrosion resistant
- Machine emergency stopping .

Technical Specification	AC-100A (#711-231)
Cutting Disc Size	350 x 2.5 x 32mm
Cutting Wheel Speed	1000 - 3000r/min With continuous adjusts
Cutting Table Size	400 x 280mm(W x L)
Cutting Table Moving Distance	150mm
Power Supply	220V/50Hz; 110V/60Hz
Machine Dimension	1050 x 950 x 710mm
Net Weight	350kg
Power Supply	3Phase/380V/50Hz
Water Tank Capacity	60 L

AC-80B Metallurgical Precision Cutting Machine :

AC-80B is one kind of manual/automatic metallurgical precision cutting machine with high reliability and controlling capacity. It is used for cutting various material and non-metallic so as to observe the material microstructure and lithofacies organization. The process cutting is combined with manual/automatic process with low noise and easy operation and safe reliability, which is one of the important equipment making solid material specimen in modern laboratory.



AC-80B(#711-241)

AC-80B Technical Characteristics:

- Manual/automatic conversion
- Speed: 0.1~30mm/min
- Maximum distance in x-axis 150mm, Y-axis 50mm, Z-axis 60mm
- Display all kinds of cutting data by LED
- Accurately cutting
- Grinder compensation
- Continuously cut various material with precision
- Safety switch with guard
- Maximum cutting diameter \varnothing 80mm
- Cooling tank with 25 liters equipped with magnetic filter
- Motor specification 3KW
- Power Supply: 3Phases/380V/50Hz

AC-160 Automatic Specimen Cutting Machine:

AC-160 is one durable cutting designed according to the sample environment. Mighty function and cutting space make them become the option of the large sample. The series of machines consist of controlling system, cutting system, lighting system, cooling system and cleaning system. Spacious cutting room is equipped with two automatic cutting working table. X direction is for the main parallel continuous cutting, Y direction is mainly used to cut large workpieces. Three kinds of cutting models make the large workpieces freely. LCD (liquid crystal display) Shows all kinds of cutting parameter. It is easy to control the friendly user interface. Automatic cuts can reduce fatigue of the operators to improve the sample efficiency and the specimen consistency. Super cooling system can avoid burning while cutting, shield-style automatic gate systems, as well as explosion-proof enclosures protect the safety of the operator.



AC-160(#711-271)

AC-160 Technical Characteristics:

- 7.5 inch touching liquid crystal display(LCD) with, display cutting data
- Automatically cutting process
- Three kinds of cutting method: chop-cutting, reciprocating cutting
- Adjustable speed:0-2300rpm with widely cutting ranges
- Super cutting room, T working table, quick-clamping vise
- Triaxial linkage, transferring maximum distance 200mm, vertical shift distance 300mm
- Precision can reach 0.005mm
- 120L environmental protection deslagging cooling system
- Open and close automatically
- Max. cutting diameter Diameter: \varnothing 160mm
- Motor specification :7.5KW
- Power Supply: 3Phases/380V/50Hz

AC-110 Manual Cutting Machine & AC-110A Manual/Automatic Cutting Machine:

AC-110 Manual cutting machine and AC-110A Manual/Automatic cutting machine are designed and manufactured according to the European health and safety standard. The series of machines consist of controlling system, cutting system, lighting system, cooling system and cleaning system. Super cooling system can make workpiece avoid while cutting. Imported switch and the safety of the operators. AC-110 manual cutting machine owns the scientific designs of pulling bar that makes the large workpiece cut freely. Simultaneously AC-110A owns the manual and automatic features that makes it own widely. The machines successfully combines the latest cutting technology, high flexibility and convenience into one.

The series of machine are especially suitable for tertiary institutions, automobile manufacturing industry, steel and metallurgical industries as well as materials R & D and so on.



AC-110(#711-251)

AC-110 Technical Characteristics:

- "T-slot" wide-working table, special clamps for large specimens
- Cutting capacity of abrasive wheel $\varnothing 110\text{mm}$
- Super cooling tanks with 80L
- Cleaning Function of spraying water
- Independent lighting system
- Motor specification 4KW
- Power Supply: 3Phases/380V/50Hz



AC-110A(#711-261)

AC-110A Technical Characteristics:

- Three kinds cutting method: chop-cutting, reciprocating cutting
- Controllable handle in the direction of Y provides you with the convenience to some extent
- large display, liquid crystal displays various cutting data
- "T-slot" wide-working table, special clamps for large specimens
- Cutting capacity of abrasive wheel $\varnothing 110\text{mm}$
- Super cooling tanks with 80L
- Cleaning Function of spraying water
- Independent lighting system
- Motor Specification 4KW
- Power Supply: 3Phases/380V/50Hz

Metallurgical Specimen Preparation Machine: Cutting Machine



PC-60(# 711-321)

PC-60 Characteristics

- Pre-setting feed speeds(0-30mm/min)
- For cutting all kinds of materials precisely
- Menu control LCD display
- User may define the data-base of the cutting method
- Low work position for clamping workpiece
- Ultra-closed cutting compartments with safety switch
- Precise position to 2um
- Continuously cut sheet



PC - 25(# 711-311)

PC-60 Application:

It is one precision cutting machine suitable for precisely for large-scale specimens. It applies to a series of materials from the low hardness to the high hardness with the strong flexibility. It is mainly used in the fields of Metals, Ceramics, Composite materials, Electronic , Components, Hard alloy, Crystal, Mineral material, Bio-materials

Technical Specification	PC - 60(# 711-321)
Feed Speed	0-30mm/min (Regulation of step length for 0.1mm)
Cutting Blade Dimension	100mm, 125mm, 150mm, 200mm
Max. travel	X-axis 90mm; Y-axis 200mm
Rotate Speed	300-5000rpm
Max. Cutting Diameter	φ60mm
Power Supply	220V/50Hz; 110V/60Hz

PC-25 Application:

PC-25 applies to cut all kinds of hard materials , especially for cutting high-value fragile crystals, The machine has many clamps which make the workpiece cut at the optimum position. Meanwhile limiting switch can process without the supervision of the operator. Spindle runs precisely, and adjust the level of objects.

Technical Specification	PC-25 (#711-311)
Travel of movable frame	25mm
Positioning precision	0.01mm
Rotate Speed	60-600rpm
Blade diameter	100-150mm
Power	50W
Power Supply	220V/50Hz; 110V/60Hz
Dimension	350x350x200mm
Net Weight	18.5kg

Metallurgical Specimen Preparation Machine: Mounting Press



MP 1-30(#713-112)



MP 2-30(#713-111)



AMP 1-22 (#713-212)

MP-1 is manual mechanic mounting press with 3 different size of mounting mould, the temperature and heating time can be setup and shown on the panel.

Technical Specification	MP1 - 22	MP1 - 30	MP1-45
Order#	713-102	713-112	713-122
Mould diameter	φ22mm	φ30mm	φ45mm
Input voltage	220V/50Hz; 110V/60Hz		
Power	Max. 650W		
Dimension	340 × 260 × 430mm		
Net Weight	33Kg		
Accessories	Heater, mosaic materials, fillers		

MP-2 is manual mechanic mounting press with 3 different size of mounting mould, the temperature and heating time can be setup and shown on the panel.

Technical Specification	MP2- 22	MP2 - 30	MP2 - 45
Order#	713-101	713-111	713-121
Mould diameter	φ22mm	φ30mm	φ45mm
Input voltage	220V/50Hz; 110V/60Hz		
Power	Max. 650W		
Dimension	340 × 260 × 430mm		
Net Weight	33Kg		
Accessories	Heater, mosaic materials, fillers		

Mounting press is used for inlay the irregular metallurgical specimens. AMP-1 is an auto-machine, it can setup with the heating temperature, mounting time and force.

Technical Specification	AMP1 - 22	AMP1- 30	AMP1 - 45
Order#	713-212	713-222	713-232
Mould diameter	φ22mm	φ30mm	φ45mm
Input voltage	220V/50Hz; 110V/60Hz		
Power	Max. 1000W		
Pressure	0~2MPa		
Temperature	0~300°C		
Mounting time	0~99 minutes and 0~59 seconds can be setup		
Dimension	380 × 350 × 420mm		
Net Weight	100Kg		

Metallurgical Specimen Preparation Machine: Mounting Press



AMP - 2 (#713-242)

AMP-2 is auto mounting press with the water-cooling technology. Mounting press is used for inlay the irregular metallurgical specimens. AMP-2 is an auto-machine, it can setup with the heating temperature, mounting time and force. the operator can choose the mounting mould among diameter: 22, 30, 45mm in one AMP-2, so the users can tailor the mounting size base on the dimension of testing specimen, and it will save the consumables so as to save the investment obviously.

Technical Specification	AMP2 - 22	AMP2 - 30	AMP 2 - 45
Order#	713-252	713-262	713-272
Mould diameter	φ22mm	φ30mm	φ45mm
Input voltage	220V/50Hz; 110V/60Hz		
Power	Max. 1000W		
Pressure	0~2MPa		
Temperature	0~300°C		
Mounting time	0~99 minutes and 0~59 seconds can be setup		
Dimension	380 × 350 × 420mm		
Net Weight	100Kg		
Cooling system	By water		



AMP - 5 (#713-281)

Mounting press is used for inlay the irregular metallurgical specimens. AMP-5 is an auto-machine, it can setup with the heating temperature, mounting time and force. Four different size of mould is available for mounting, and it can inlay two specimens simultaneously.

Technical Specification	AMP - 5(#713-281)
Mould diameter	φ22mm; φ30mm; φ40mm; φ45mm
Input voltage	220V/50Hz; 110V/60Hz
Power	Max. 1800W
Pressure	0~2MPa
Temperature	0~300°C
Mounting time	0~99 minutes and 0~59 seconds can be setup
Dimension	6150 × 510 × 500mm
Net Weight	110Kg
Cooling system	By water

Applications:

Diamond polishing aerosol of all kinds of graininess, aluminum, oxidative chromium, metallurgical sand paper, glue polishing cloth abrading cream, bag inlaying powder, cutting slice, etc.



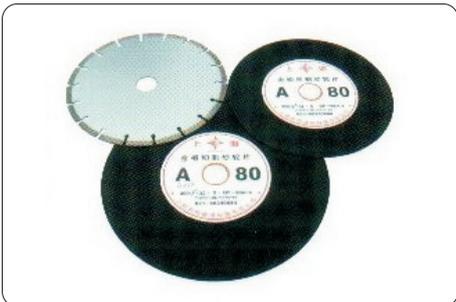
Mounting Powder

- Hot mounting powder
 - Bakelite powder (black)
 - Urea formaldehyde moulding powder (white)
- Cold mounting powder
 - Glue powder + Condensate



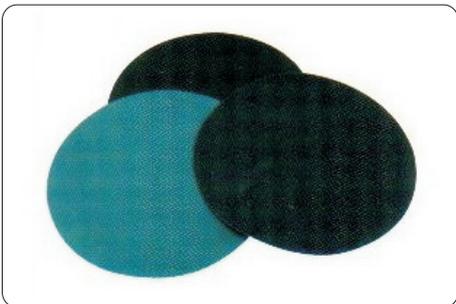
Diamond Suspensions

- Diamond pastes spray polishing agent (W0.5, W1, W2.5, W3.5, W5, W7, W10, W14)
- Alumina (W1, W3, W5, W7)
- Chromium oxide (W1, W3, W5, W7)
- Synthetic Diamond pastes (W0.5, W1, W2.5, W3.5, W5, W7, W10, W14)



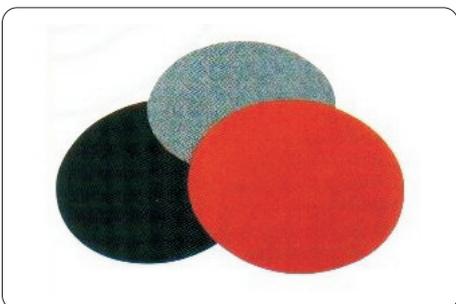
Cutting Wheel

- Resinoid cutting wheel
 - 250 x 2 x 32mm 350 x 2.5 x 32mm
 - 300 x 2 x 32mm 400 x 3 x 32mm
 - 450 x 3.5 x 32mm
- Diamond cutting wheel
 - 100 x 0.35 x 20mm 150 x 0.6 x 20mm
 - 125 x 0.5 x 20mm 200 x 1 x 32mm



Metallographic Abrasive Paper

- Molding waterproof abrasive paper \varnothing 230 180#-1000#
- Molding waterproof abrasive paper \varnothing 230 1200#-2000#
- Molding metallographic abrasive paper \varnothing 230 W50-W10
- Molding metallographic abrasive paper \varnothing 230 W7-W5



Adhesive Polishing fabric

- Rayon cord polishing canvas
- Rayon cord Polishing silk cloth
- Rayon cord polishing synthetic cloth