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# spec

## specimen

## cutting

## machine



# catalog



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itokintechnology.co.,LTD



Tel : 02-9744354-6



# CUTTING MACHINE



## MANUAL

# SQ-60

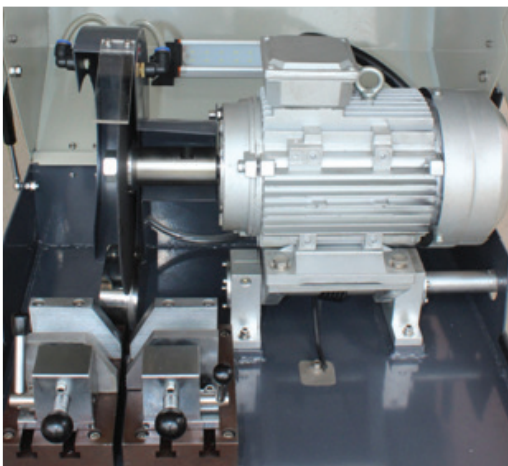
Model SQ-60 Metallographic specimen cutting machine can be used to cut various metal and non-metal materials so as to get specimen and observe the metallographic or lithofacies structure. It has cooling system so as to clear up the heat produced during cutting and avoid to burn the metallographic or lithofacies structure of specimen because of super-heat. This machine features easy operation and reliable safety. It is the necessary specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.

## Features

- Quick clamping vice.
- LED Lighting system
- 60L water cooling system

## Technical specifications

- Power supply : 380V, 50Hz (three phases)
- Rotating speed of main shaft : 2800rpm
- Max. cutting diameter :  $\phi 60$ mm
- Sand wheel specification : 250x2x32mm
- Motor : 2.2KW
- Dimensions : 750x700x680mm
- Weight : approx. 115kg



# CUTTING MACHINE



## MANUAL SQ-80

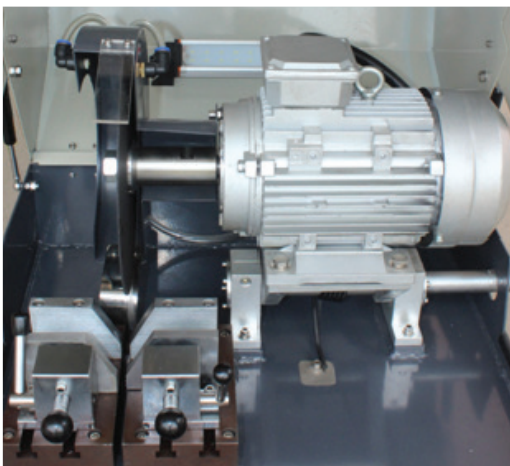
Model SQ-80 Metallographic specimen cutting machine can be used to cut various metal and non-metal materials so as to get specimen and observe the metallographic or lithofacies structure. It has cooling system so as to clear up the heat produced during cutting and avoid to burn the metallographic or lithofacies structure of specimen because of super-heat. This machine features easy operation and reliable safety. It is the necessary specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.

### Features

- Quick clamping vice.
- LED Lighting system
- 60L water cooling system

### Technical specifications

- Power supply : 380V, 50Hz (three phases)
- Rotating speed of main shaft : 2800rpm
- Max. cutting diameter :  $\varnothing 80\text{mm}$
- Sand wheel specification : 250x2x32mm
- Motor : 2.2KW
- Dimensions : 750x700x680mm
- Weight : approx. 125kg



# CUTTING MACHINE



## SQ-100 MANUAL

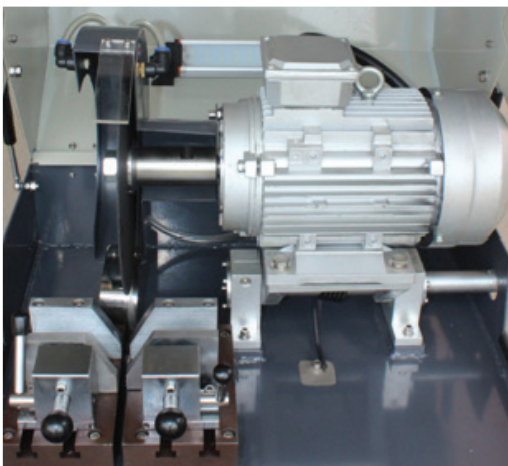
Model SQ-100 Metallographic specimen cutting machine can be used to cut various metal and non-metal materials so as to get specimen and observe the metallographic or lithofacies structure. It has cooling system so as to clear up the heat produced during cutting and avoid to burn the metallographic or lithofacies structure of specimen because of superheat. This machine features easy operation and reliable safety. It is the necessary specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.

### Features

- Quick clamping vice.
- LED Lighting system
- 60L water cooling system

### Technical specifications

- Power supply : 380V, 50Hz (three phases)
- Rotating speed of main shaft : 2800rpm
- Max. cutting diameter :  $\phi 100\text{mm}$
- Sand wheel specification : 300x2.5x32mm
- Motor : 2.2KW
- Dimensions : 750x700x680mm
- Weight : approx. 136kg



# CUTTING MACHINE

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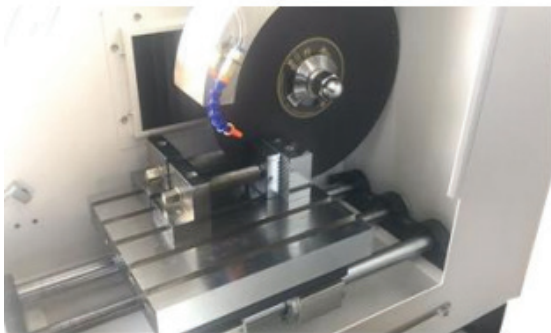
## Q100B Automatic Metallographic sample cutting machine



- Q-100B automatic metallographic sample cutting machine include body, electric control box, cutting room, motor, cooling system, and abrasive cutting wheel.
- It can be used to cut round specimens with Max. diameter 100mm or rectangular specimen within height 100mm, depth 200mm.
- It is Equipped with automatic cooling system to cool the sample, to prevent the sample overheating and burning during the cutting process.

- Users can set the cutting speeds due to different samples, so as to improve the quality of cutting samples.
- With large cutting chamber and easy operation for user, the cutting machine is one of metallographic test necessary sample preparation equipments for the colleges, factory enterprises. Technical Parameter:

## SPECIFICATION

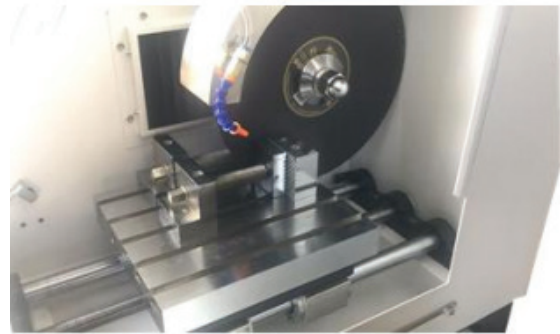


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# CUTTING MACHINE

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## Q100 B Automatic Metallographic sample cutting machine



## SPECIFICATION

Display	High-definition LCD display cutting data
Process tracking	Live preview
Spindle rotating speed	2100R/M
Cutting speed	Seven grade
Max cutting Dia.	φ100mm
Max Cutting tube	φ100mm×200mm
Clamping table size	Double layer, movable workbench, separated style
Cutting means	Manual cutting and automatic cutting switch freely
Cooling system	Dual channel automatic water cooling
Reset model	Automatic reset
Feed way	Two-way feed, increased the depth/length of cutting
Grinding wheel	350×2.5×32mm
Motor Power	3KW
Type	Desk Type(Vertical type optional)
Cooling Liquid Tank	60L

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# CUTTING MACHINE

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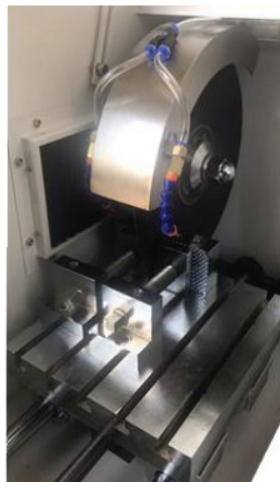
## Q-80Z

Automatic Metallographic  
sample cutting machine



## APPLICATION

- Q-100B automatic metallographic sample cutting machine include body, electric control box, cutting room, motor, cooling system, and abrasive cutting wheel.
- It can be used to cut round specimens with Max. diameter 100mm or rectangular specimen within height 100mm, depth 200mm.
- It is Equipped with automatic cooling system to cool the sample, to prevent the sample overheating and burning during the cutting process.



# PICTURE

# Q-80Z

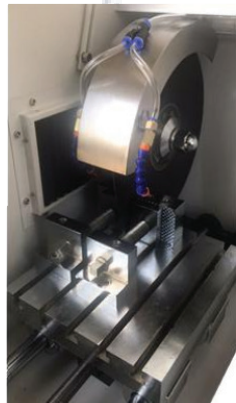
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# CUTTING MACHINE

[www.itokin2000.com](http://www.itokin2000.com)

## Q-80Z

Automatic Metallographic  
sample cutting machine



## SPECIFICATION

Power Supply: 380V/50Hz

Spindle Rotating Speed: 2100r/min

Specification of grinding wheel: 350mm×2.5mm×32mm

Max cutting diameter:  $\Phi$ 80mm

Max cutting volume: 80\*200mm

Electric power: YS90L-2.2KW

Cutting table size: 310\*280mm

Dimension: 930 x 700 x 610mm

Net Weight: 210Kg

## Details:

Cabinet and Quick clamps optional

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# เครื่องตัดชิ้นงานละเอียด SPECIMEN CUTTING MACHINE MODEL Q2

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Taking advantage of rolling sheet wheel with high speed, model Q-2 Metallographic specimen cutting machine can obtain metallographic specimen and it can be widely used to cut various metal materials in metallographic laboratories. The equipped cooling system can clear up the heat produced during cutting so that it will avoid the metallographic structure deforming of specimen because of heating influence. Besides various metal materials, this machine can also be used to cut other non-metal material such as plastic, rubber hose ect.



## Q2

### Technical specifications

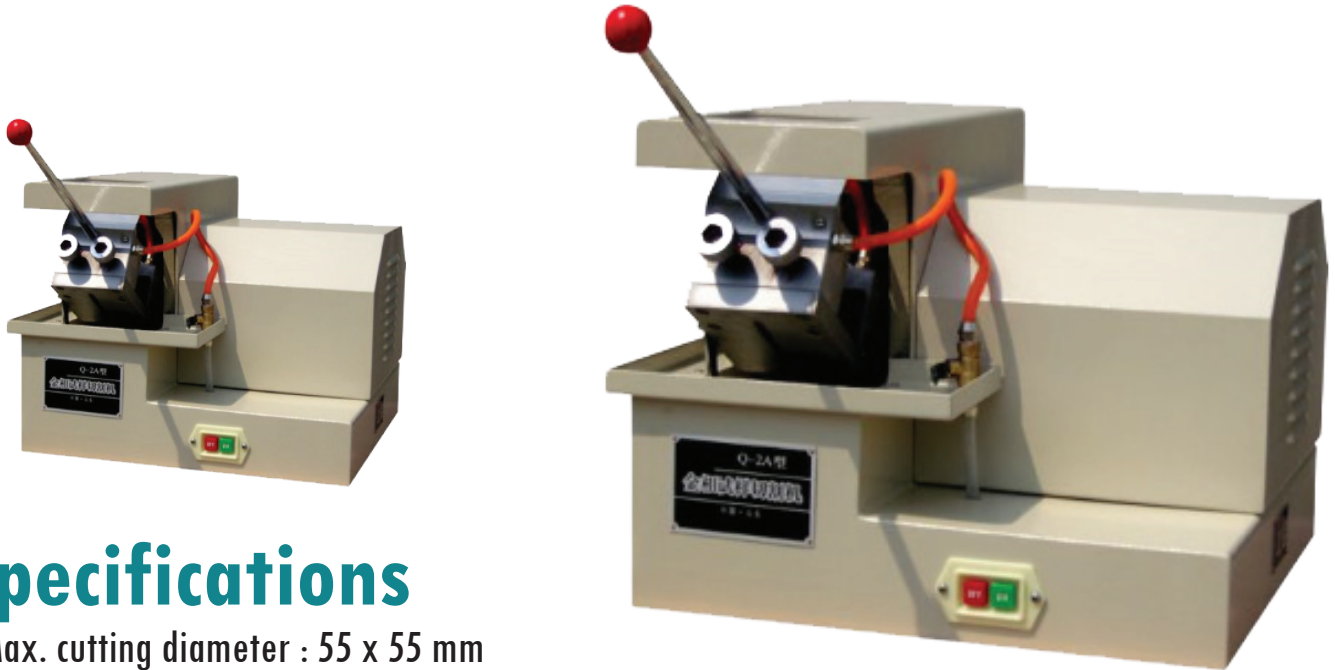
- Max. cutting diameter : Ø30mm
- Sand wheel specification : 250 x 2 x 32 mm
- Sand wheel rotating speed : 2800 rpm
- Motor : 1.1kw
- Power supply : three phases, 380V, 50Hz
- Dimensions : 470 x 390 x 360 mm
- Weight : 60Kg



# เครื่องตัดชิ้นงานละเอียด SPECIMEN CUTTING MACHINE MODEL Q2-A

[www.itokin2000.com](http://www.itokin2000.com)

Taking advantage of rolling sheet wheel with high speed, model Q-2A Metallographic specimen cutting machine can obtain metallographic specimen and it can be widely used to cut various metal materials in metallographic laboratories. The equipped cooling system can clear up the heat produced during cutting so that it will avoid the metallographic structure deforming of specimen because of heating influence. Besides various metal materials, this machine can also be used to cut other non-metal material such as plastic, rubber hose ect.



## specifications

- Max. cutting diameter : 55 x 55 mm
- Cutting disc specification : 300 x 2 x 32 mm
- Rotate speed : 2800 rpm
- Motor : Y90L-2, 2.2kw
- Power supply : three phases, 380V, 50Hz
- Dimensions : 650 x 500 x 400mm
- Weight : 80Kg

## MODEL Q2-A



# เครื่องตัดชิ้นงานละเอียด

## SPECIMEN CUTTING MACHINE

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## MODEL Q-3A

Model Q-3A Metallography specimen cutting machine can be used for cutting of normal metallography and lithofacies materials. The equipped cooling system can clear up the heat produced during cutting so that it will avoid the metallography structure deforming of specimen because of heating fluence. The cutting against rock and ceramics materials must be equipped with diamond sand wheel (diamond sand wheels need to be ordered specially). This machine features easy operation and reliable safety. It is the ideal specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.



### specifications

- Max. cutting width: 60mm
- Max. cutting height: 80mm
- Max. diameter of cutting surface:  $\Phi$ 50mm
- Sand wheel specification: 250 x 2.5 x 32mm
- Sand wheel rotating speed : 2800 rpm
- Motor : Y900L-2, 2.2KW
- Dimensions : 58 x 56 x 68 cm
- Net weight : 150 Kg

## MODEL Q-3A



# เครื่องตัดชิ้นงานละเอียด

## SPECIMEN CUTTING MACHINE

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# QG-4

This machine is used for cutting the metallographic specimen with irregular shapes such as cylinder, polygon etc., so as to observe the metallographic and lithofacies structure of the material. It adopts the fullysealed structure with double shields, which can guarantee the safety of operator. The cooling system with good coolant can take away the heat of cutting so as to protect the structure of specimen from being burned. During cutting, the specimen can be adjusted in any angles, which helps to avoid the minor burning when the specimen is cut to fall. At the same the time the cutting cross section is increased, thus the utilization ration of cutting sand wheel is improved. The machine, featuring convenient operation and reliable safety, is the necessary equipment for specimen preparation in laboratories, college researching institutes and factories.

### specifications

- Max. Cutting diameter :  $\phi 65\text{mm}$
- Rotating speed : 2800rpm
- Diameter of cutting disc : 250x2x32mm
- Power supply : three phases, 380V, 50Hz
- Motor : 1.1KW
- Dimensions : 87x59x111cm
- Net weight : 180KG



# เครื่องตัดชิ้นงานละเอียด

## SPECIMEN CUTTING MACHINE (RAPID CLAMPER) QG-4A

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This machine is used for cutting the metallographic specimens with irregular shapes such as cylinder, polygon etc., so as to observe the metallographic and lithofacies structure of the material. It adopts the fully-sealed structure with double shields, which can guarantee the safety of operator. The cooling system with good coolant can take away the heat of cutting so as to protect the structure of specimen from being burned. During cutting, the specimen can be adjusted in any angles, which helps to avoid the minor burning when the specimen is cut to fall. At the same time the cutting cross section is increased, thus the utilization ratio of cutting sand wheel is improved. This machine, featuring convenient operation and reliable safety, is the necessary equipment for specimen preparation in laboratories, college researching institutes and factories.

### specifications

- Max. Cutting diameter:  $\Phi 65\text{mm}$
- Rotating speed: 2800 rpm
- Diameter of cutting sand wheel : 250 x 1.5 x 32mm
- Power supply: 380V, 3-phase, 50Hz
- Motor: 1.5 KW
- Dimensions: 87 x 55 x 112 cm



# เครื่องตัดชิ้นงานละเอียด

## SPECIMEN CUTTING MACHINE

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## QIEGE-60S

*QIEGE-60S Metallographic specimen cutting machine can be used to cut various metal and non-metal materials so as to get specimen and observe the metallographic or lithofacies structure. It has cooling system so as to clear up the heat product during cutting and avoid to burn the metallographic or lithofacies structure of specimen because of superheat. This machine has stainless machine body and worktable, and it features easy operation and reliable safety. It is the necessary specimen preparing instrument for using in factories, scientific research insitutes and laboratories of colleges.*



### Feature

- Stainless machine body and workable
- Equipped with lighting lamp
- 60L water cooling system

### Specifications

- Power supply : 380V, 50Hz (Three phases)
- Rotating speed of main shaft : 2800rpm
- Max. cutting diameter :  $\phi 60$ mm
- Sand wheel specification : 250x2x32mm
- Motor : 2.4KW
- Dimensions : 750x620x450mm
- Weight : approx.82kg



# เครื่องตัดชิ้นงานละเอียด

## SPECIMEN CUTTING MACHINE

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## QIEGE-100S

*QIEGE-100S Manual/ Automatic Metallographic specimen cutting machine can be used to cut various metal and non-metal materials so as to get specimen and observe the metallographic or lithofacies structure. It has cooling system so as to clear up the heat product during cutting and avoid to burn the metallographic or lithofacies structure of specimen because of superheat. This machine has stainless machine body and worktable, and it features easy operation and reliable safety. It is the necessary specimen preparing instrument for using in factories, scientific research insitutes and laboratories of colleges.*



### Feature

- Stainless machine body and workable
- Equipped with lighting lamp
- 60L water cooling system

### Specifications

- Power supply : 380V, 50Hz (Three phases)
- Rotating speed of main shaft : 2200rpm
- Max. cutting diameter :  $\phi$ 100mm
- Sand wheel specification : 350x2x32mm
- Max. workable moveable distance : 300mm
- Max. moveable travel for automatic cutting : 145mm
- Motor : 3.3KW
- Dimensions : 900x860x620mm
- Weight : approx.272kg



# เครื่องตัดชิ้นงานละเอียด

## SPECIMEN CUTTING MACHINE

[www.itokin2000.com](http://www.itokin2000.com)

# METACUT-80

## Feature

- Quick clamping vice
- LED lighting system
- Main shaft of cutting disc is movable upward and downward which can prolong the using life of cutting disc greatly
- Two working modes of Intermittent cutting and continuous cutting
- 60L water cooling system



## specifications

- Max. cutting diameter :  $\phi 80\text{mm}$
- Rotating speed of main shaft : 2300rpm
- Sand wheel specification : 300x2x32mm
- Automatic feeding speed : 0-180mm/min
- Cutting disc upward and downward moving distance : 0-50mm
- Forward and backward moving distance : 0-340mm
- Working table size : 430x400mm
- Motor power : 2.2KW
- Power supply : 380V, 50Hz (three phase)





# เครื่องตัดชิ้นงานละเอียด

## SPECIMEN CUTTING MACHINE

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## METACUT-80L

### *METACUT-80L Metallographic specimen cutting machine*

can be used to cut various metal and non-metal materials so as to get specimen and observe the metallographic or lithographic structure. It is a kind of Manual\* Automatic cutting machine and can be switched between Manual and Automatic modes at will. Under automatic working mode, the cutting can be finished without human operation. The machine has large work table and long cutting length which make it possible to cut large samples. The main shaft of cutting disc can also move upward or downward which can prolong the using life of cutting disc greatly. The machine has cooling system so as to clear up the heat produced during cutting and avoid to burn the metallographic or lithographic structure of specimen because of superheat. This machine features easy operation and reliable safety. It is the necessary specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.



## specifications

- Max. cutting diameter :  $\phi 80\text{mm}$
- Rotating speed of main shaft : 2300rpm
- Sand wheel specification : 300x2x32mm
- Automatic feeding speed : 0-180mm/min
- Cutting disc upward and downward moving distance : 0-50mm
- Forward and backward moving distance : 0-340mm
- Working table size : 430x400mm
- Motor power : 2.2KW
- Power supply : 380V, 50Hz (three phase)

## Feature

- Quick clamping vice
- LED lighting system
- Main shaft of cutting disc is movable upward and downward which can prolong the using life of cutting disc greatly
- Two working modes of Intermittent cutting and continuous cutting
- 60L water cooling system



# เครื่องตัดชิ้นงานละเอียด

## SPECIMEN CUTTING MACHINE

[www.itokin2000.com](http://www.itokin2000.com)

## METACUT-100

### Feature

- Quick clamping vice
- LED lighting system
- Main shaft of cutting disc is movable upward and downward which can prolong the using life of cutting disc greatly
- Two working modes of Intermittent cutting and continuous cutting
- 60L water cooling system



### specifications

- Max. cutting diameter :  $\phi 100\text{mm}$
- Rotating speed of main shaft : 2300rpm
- Sand wheel specification : 300x2.5x32mm
- Automatic feeding speed : 0-180mm/min
- Cutting disc upward and downward moving distance : 0-50mm
- Forward and backward moving distance : 0-340mm
- Working table size : 430x400mm
- Motor power : 3KW
- Power supply : 380V, 50Hz (three phase)



# เครื่องตัดชิ้นงานละเอียด

## SPECIMEN CUTTING MACHINE

[www.itokin2000.com](http://www.itokin2000.com)

## METACUT-100L

### *METACUT-100L Metallographic specimen cutting*

machine can be used to cut various metal and non-metal materials so as to get specimen and observe the metallographic or lithogacies structure. It is a kind of Manual\* Automatic cutting machine and can be switched between Manual and Automatic modes at will. Under automatic working mode, the cutting can be finished without human operation. The machine has large work table and long cutting length which make it possible to cut large samplae. The main shaft of cutting disc can also move upward or downward which can prolong the using life of cutting disc greatly. The machine has cooling system so as to clear up the heat producted during cutting and avoid to burn the metallo-graphic or lithofacies structure of specimen because of superheat. This machine features easy operation and reliable safety. It is the necessary specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.



## specifications

- Max. cutting diameter :  $\phi 100\text{mm}$
- Rotating speed of main shaft : 2300rpm
- Sand wheel specification : 350x2.5x32mm
- Automatic feeding speed : 0-180mm/min
- Cutting disc upward and downward moving distance : 0-50mm
- Forward and backward moving distance : 0-340mm
- Working table size : 430x400mm
- Motor power : 3KW
- Power supply : 380V, 50Hz (three phase)

## Feature

- Quick clamping vice
- LED lighting system
- Main shaft of cutting disc is movable upward and downward which can prolong the using life of cutting disc greatly
- Two working modes of Intermittent cutting and continuous cutting
- 60L water cooling system



# เครื่องตัดชิ้นงานละเอียด

## SPECIMEN CUTTING MACHINE

[www.itokin2000.com](http://www.itokin2000.com)

## METACUT-120

### Feature

- Quick clamping vice
- LED lighting system
- Main shaft of cutting disc is movable upward and downward which can prolong the using life of cutting disc greatly
- Two working modes of Intermittent cutting and continuous cutting
- 60L water cooling system



### specifications

- Max. cutting diameter :  $\phi 120\text{mm}$
- Rotating speed of main shaft : 2300rpm
- Sand wheel specification : 400x2.5x32mm
- Automatic feeding speed : 0-180mm/min
- Cutting disc upward and downward moving distance : 0-50mm
- Forward and backward moving distance : 0-340mm
- Working table size : 430x400mm
- Motor power : 4KW
- Power supply : 380V, 50Hz (three phase)



# เครื่องตัดชิ้นงานละเอียด

## SPECIMEN CUTTING MACHINE

[www.itokin2000.com](http://www.itokin2000.com)

## METACUT-120L

### *METACUT-120L Metallographic specimen cutting*

machine can be used to cut various metal and non-metal materials so as to get specimen and observe the metallographic or lithogacies structure. It is a kind of Manual\* Automatic cutting machine and can be switched between Manual and Automatic modes at will. Under automatic working mode, the cutting can be finished without human operation. The machine has large work table and long cutting length which make it possible to cut large samplae. The main shaft of cutting disc can also move upward or downward which can prolong the using life of cutting disc greatly. The machine has cooling system so as to clear up the heat producted during cutting and avoid to burn the metallo-graphic or lithofacies structure of specimen because of superheat. This machine features easy operation and reliable safety. It is the necessary specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.



## specifications

- Max. cutting diameter :  $\phi 120\text{mm}$
- Rotating speed of main shaft : 2300rpm
- Sand wheel specification : 400x2.5x32mm
- Automatic feeding speed : 0-180mm/min
- Cutting disc upward and downward moving distance : 0-50mm
- Forward and backward moving distance : 0-340mm
- Working table size : 430x400mm
- Motor power : 4KW
- Power supply : 380V, 50Hz (three phase)

## Feature

- Quick clamping vice
- LED lighting system
- Main shaft of cutting disc is movable upward and downward which can prolong the using life of cutting disc greatly
- Two working modes of Intermittent cutting and continuous cutting
- 60L water cooling system



# เครื่องตัดชิ้นงานละเอียด

## SPECIMEN CUTTING MACHINE

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## METACUT-5000

*METACUT-5000 precise cutting machine is very suitable for non-deforming cutting to the materials such as metal, electronic part, ceramic, crystal, hard alloy, lithofacies sample, mineral sample, concrete, organic material, biological materials etc. This machine can use diamond cutting disc or resin cutting disc, it features wide application, high cutting accuracy, powerful cutting ability and wide speed adjusting range. It is an ideal option for the lab of factories, science and research institutions and universities.*

### Feature

- Built-in re-circulating & cooling system
- The feeding speed can be preset (0-180mm/min)
- Menu operation, LCD display of various data
- Wide cutting chamber and work table, long cutting distance
- There are 9 Kinds of fixed cutting methods. One cutting method can be defined by customer freely.
- Ultra-large and closed cutting chamber with safety switch

### specifications

- Feeding speed: 0-180mm/min (0.1mm increments)
- Rotating speed: 300-5000rpm adjustable (300-6000rpm optional)
- Maximum cutting diameter:  $\Phi$ 60mm
- Maximum travel: Y-axis 220mm, Z-axis 25mm
- Cutting disc diameters: 100mm, 125mm, 150mm, 200mm
- Motor power: 1200 W
- Power supply: single phase, 220V, 50HZ



# METACUT-5000



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# เครื่องตัดชิ้นงานละเอียด

## SPECIMEN CUTTING MACHINE

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# LSQ-100

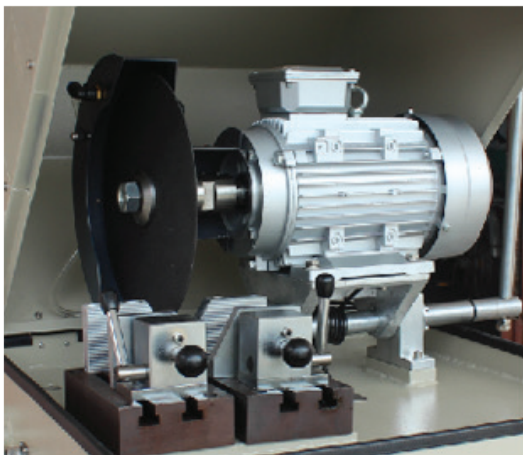
*LSQ-100 Metallographic specimen cutting machine is suitable for cutting general metallographic and lithofacies material specimens. This machine features safety & reliable performance, low noise and easy operation. It is the idea instrument for specimen preparing purpose used in colleges, laboratories & factories.*

## Feature

- Equipped with double quick clamping vices & T-notch workable, and this is very favourable for customers to clamp all kinds of strange shap work pieces
- Equipped with 60L cooling liquid tank
- Equipped with LED lighting system

## Specifications

- Cutting disc specification : 300x2.5x32mm
- Rotating speed : 2800rpm
- Motor power : 3.0KW
- Max.cutting diameter :  $\phi$ 100mm
- Power supply : three phases, 380V, 50Hz
- Dimensions : 650x600x1400mm
- Net weight : 180KG



# LSQ-100



# เครื่องตัดชิ้นงานละเอียด

## SPECIMEN CUTTING MACHINE

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### LDQ-250

*Model LDQ-250 precise cutting machine is one kind manual/automatic metallographic precise cutting machine with high reliability and controlling capacity. It is used for cutting various materials and non-metallic materials so as to observe the material microstructure and lithofacies organization. The process of 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.*

### Feature

- Manual/automatic conversion
- Display all kinds of cutting data by LED
- Accurately Cutting
- Grinder compensation
- Continuously cutting various materials precisely

### specifications

- Cutting speed : 0.1-30mm/min
- Maximum distance : X axis 150 mm , Y axis 50 mm , Z axis 60 mm
- Maximum Cutting diameter : 80 mm
- Cooling tank with 25L equipped with magnetic filter
- Safety switch with guard
- Moter: 3KW
- Power supply : 380V , 50Hz
- Dimensions : 1200 x 600 x 1400 mm



## LDQ-250 MANUAL





# เครื่องตัดชิ้นงานละเอียด

## SPECIMEN CUTTING MACHINE

www.itokin2000.com

### LDQ-350

*LDQ-350 manual cutting machine is designed and manufactured according to an introduced and advanced technology of cutting actions, the health and safety of European Economic Community standard. This machine includes cutting system, lighting system, cooling system and cleaning system. Super cooling system can avoid specimen from burning while cutting. Imported gate style safety switch and explosion proof hood afford the safe guarantee for operators. Scientific design of pull bar on LDQ-350 makes cutting action ease-to-use. It combines new cutting technology, high ability and convenience in one. This series is the ideal option for colleges, car manufacturing, steel manufactories, material research institutes and soon.*

### specifications



- Wide T-slot Bed, special clamping for large samples
- Cutting capacity of abrasive wheel : 110mm
- Coolant tank with 80L capacity
- Water-jet type cleaning system
- Isolated lighting system
- Motor power: 4kw
- Power supply : 380V 50Hz



### LDQ-350 MANUAL



# เครื่องตัดชิ้นงานละเอียด

1

## SPECIMEN CUTTING MACHINE

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# LDQ-350A

*LDQ-350A is a kind of manual / automatic metallographic cutting machine. It adopts SIEMENS PLC and features high reliability and controlling ability. It has touch screen HMI control interface and high accuracy stepping motor. This machine is suitable for precise cutting for all kinds of metal and non-metal materials and can get precise sample for metallographic and lithofacies organizations. This machine includes cutting system, lighting system, cooling system and cleaning system. Super cooling system can avoid specimen from burning while cutting. LDQ-350A adopts exchangeable manual / automatic cutting method with low noise and convenient, safe and reliable operation. It is the ideal option for colleges, laboratories, car manufacturing, steel manufactories, material research institutes and so on.*



### Feature

- Three cutting type: Abrasive chop cutting, to-and-fro cutting, layer-to-layer cutting (for different materials, diameters and hardness)
- Max. moving capacity of Y-axis: 200mm
- High cutting accuracy, parallelism / planeness is within 0.1mm / 100mm
- Automatic on/off protective shield
- Stainless working table
- Water-jet type cleaning system
- Isolated lighting system
- Equipped with quick clamber
- HMI (Human Machine Interface) controlling.

# LDQ-350A

## AUTOMATIC



# เครื่องตัดชิ้นงานละเอียด

2

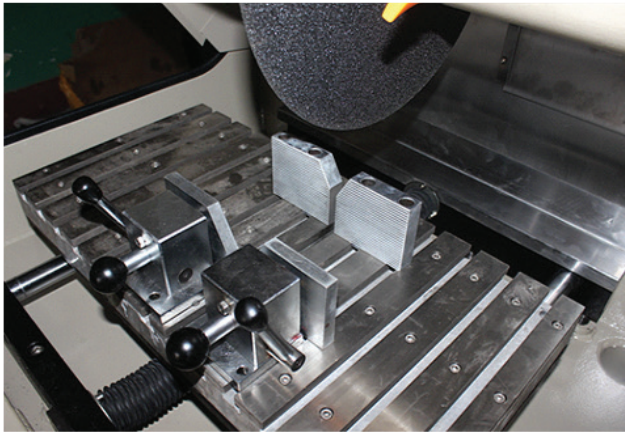
## SPECIMEN CUTTING MACHINE

www.itokin2000.com

### LDQ-350A

LDQ-350A is a kind of manual / automatic metallographic cutting machine. It adopts SIEMENS PLC and features high reliability and controlling ability. It has touch screen HMI control interface and high accuracy stepping motor. This machine is suitable for precise cutting for all kinds of metal and non-metal materials and can get precise sample for metallographic and lithofacies organizations. This machine includes cutting system, lighting system, cooling system and cleaning system. Super cooling system can avoid specimen from burning while cutting. LDQ-350A adopts exchangeable manual / automatic cutting method with low noise and convenient, safe and reliable operation. It is the ideal option for colleges, laboratories, car manufacturing, steel manufactories, material research institutes and so on.

### Specifications



- Cutting disc size: 350 × 2.5 × 32mm
- Max. cutting diameter: 110mm
- Rotating speed: 2300 rpm
- Feeding speed is adjustable within 0.005-10mm/s
- 80L circulating and cooling system, equipped with magnetic filter
- Large working chamber 860mm x 690mm
- Stainless working table 580mm x 290mm
- Motor power: 4 KW
- Power supply: 380V, 50HZ
- Dimensions: 1420mm × 1180mm × 1680mm
- Net Weight: 700 KG

### Optional accessories

- Movable supporting stage
- Diamond cutting disc

### LDQ-350A

# AUTOMATIC



# เครื่องตัดชิ้นงานละเอียด

## SPECIMEN CUTTING MACHINE

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### LDQ-450

*LDQ-450 is a kind of full automatic and high precision cutting machine. It adopts SIEMENS PLC and features high reliability and controlling ability. It has touch screen HMI control interface and high accuracy stepping motor. This machine is suitable for precise cutting for all kinds of metal and non-metal materials and can get precise sample for metallographic and lithofacies organizations. This machine includes cutting system, lighting system, cooling system and cleaning system. Super cooling system can avoid specimen from burning while cutting. LDQ-450 applies automatic cutting with low noise and convenient, safe and reliable operation. It is the ideal option for colleges, laboratories, car manufacturing, steel manufactories, material research institutes and so on.*

### Feature

- Three cutting type: Abrasive chop cutting, to-and-fro cutting, layer-to-layer cutting (for different materials, diameters and hardness)
- 3-axis simultaneous motion, Moving capacity of X-axis: 200mm, Moving capacity of Y-axis: 300mm, Moving capacity of Z-axis: 240mm, Moving speed is adjustable within 0-10mm/s, Moving accuracy is  $\pm 0.005$ mm
- High cutting accuracy, parallelism / planeness is within 0.1mm / 100mm
- Automatic on/off protective shield
- Stainless working table
- Water-jet type cleaning system
- Isolated lighting system
- Equipped with quick clamber
- HMI (Human Machine Interface) controlling.



### LDQ-450



# เครื่องตัดชิ้นงานละเอียด

## SPECIMEN CUTTING MACHINE

www.itokin2000.com

### LDQ-450

*LDQ-450 is a kind of full automatic and high precision cutting machine. It adopts SIEMENS PLC and features high reliability and controlling ability. It has touch screen HMI control interface and high accuracy stepping motor. This machine is suitable for precise cutting for all kinds of metal and non-metal materials and can get precise sample for metallographic and lithofacies organizations. This machine includes cutting system, lighting system, cooling system and cleaning system. Super cooling system can avoid specimen from burning while cutting. LDQ-450 applies automatic cutting with low noise and convenient, safe and reliable operation. It is the ideal option for colleges, laboratories, car manufacturing, steel manufactories, material research institutes and so on.*

### specifications

- Cutting disc size: 450 × 3.5 × 32mm
- Max. cutting diameter: 160mm
- Frequency control speed adjustment: 0-2300 rpm
- Feeding speed is adjustable within 0.005-10mm/s
- 120L circulating and cooling system, equipped with magnetic filter
- Large working chamber 840mm x 980mm
- Movable working table 580mm x 285mm
- Fixed working table 580mm x 240mm
- Motor power: 7.5KW
- Power supply: 380V, 50HZ
- Dimensions: 1800mm×1350mm×1870mm
- Net Weight: 1100 KG



### Optional accessories

### LDQ-450

Movable supporting stage  
Diamond cutting disc



# เครื่องตัดชิ้นงานละเอียด

## SPECIMEN CUTTING MACHINE

www.itokin2000.com

## GTQ-5000B

GTQ-5000 has been upgraded to GTQ-5000B. The new model of GTQ-5000B features powerful functions and stable performance. It is very suitable for non-deforming cutting to the materials such as metal, electronic part, ceramic, crystal, hard alloy, lithofacies sample, mineral sample, concrete, organic material, biological materials etc. It is an ideal option for the lab of factories, science and research institutions and universities.



### Feature

- This machine is driven by powerful servo motor
- High positioning accuracy up to 2um
- Wide speed adjusting range.
- Strong cutting power
- Built-in re-circulating cooling system.
- The feeding speed can be preset (0-30mm/min)
- Menu operation, LCD display of various data with backlighting.
- There are 9 Kinds of fixed cutting methods. One cutting method can be defined by customer freely.
- Ultra-large and closed cutting chamber with imported gate style safety switch

### Specifications

- Feeding speed: 0-30mm/min (0.1mm increments)
- Rotating speed: 300-5000rpm adjustable
- Maximum cutting diameter:  $\Phi$ 60mm
- Maximum travel: Y-axis 200mm
- Cutting disc diameters: 100mm, 150mm, 200mm
- Cutting power: 1100 W
- Power supply: single phase, 220V, 50HZ
- Dimensions: 72 x 70 x 41 cm



# เครื่องตัดชิ้นงานละเอียด

## SPECIMEN CUTTING MACHINE

Low Speed Precise

### DTQ-5

[www.itokin2000.com](http://www.itokin2000.com)

*DTQ-5 Low speed precise specimen cutting machine is suitable for the precise cutting of various hard materials. It is especially suitable for the precise cutting of all kinds of small metal, non-metal pieces and various electronic components. This machine can be equipped with diamond saw blade and other resin blade so as to meet the demands of cutting of various specimens. Many specimen clamping grippers are equipped with this machine and it can realize the positioning cutting at best angle for the workpieces. It can also realize workpiece processing without being watched. The main shaft features high running speed and the horizontal feeding position of the workpiece being processed can be adjusted precisely. It is the ideal metallography specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.*



## Specifications

- Movable stand travel : 25mm
- Positioning accuracy : 0.01mm
- Rotating speed of main shaft: 60-600rpm.
- Diameter of blade :  $\Phi$ 100mm -  $\Phi$ 150mm
- Power supply : 220V/110V,50Hz
- Dimensions : 35 x 35 x20 cm
- Weight : 18.5Kg

## Low Speed Precision

