



MODEL QG-4 MULTIFUNCTIONAL CUTTING MACHINE

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.

Technical specifications

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



MODEL LDQ-350 MANUAL SPECIMEN CUTTING MACHINE

MODEL LDQ-350A MANUAL & AUTOMATIC SPECIMEN CUTTING MACHINE

Model LDQ-350/LDQ-350A specimen cutting machine is a kind of floor type large specimen cutting machine which is designed as per EUROPE health and safety standards and produced importing advanced processing technology. The machine consists of cutting system, illuminating system, cooling system & cleaning system and the whole system ensures easy operation for large size workpieces, non-destructive cutting of structure and the safety of operator. This machine is especially suitable for using in colleges, automobile industry, steel processing industry, laboratories & material researching institutes.

Technical specifications

1. Motor: 4KW
2. Max. cutting diameter: $\varnothing 110\text{mm}$
3. Equipped with T-notch wide worktable. Special clamping means may be chosen for processing of large size specimen
4. Distance between worktable and sand wheel: 150mm
5. Equipped with 80L cooling liquid tank.
6. Water-jet type cleaning function
7. Independent illuminating system
8. Imported advanced gate type safety switch
9. Power supply: 380V or 220V, 50Hz
10. Dimensions: 1015 x 780 x 1720mm



MODEL LDQ-450 AUTOMATIC SPECIMEN CUTTING MACHINE

Model LDQ-450 Automatic specimen cutting machine is a kind of durable cutting machine specially designed with the consideration of specimen-preparing environment. It is the ideal choice of the large specimen-preparing machine because of its mighty function and large cutting room. This machine consists of control system, cutting system, lighting system, cooling system and cleaning system etc. Two automatic cutting tables are equipped in the spacious cutting chamber. The X-axis direction is mainly used for continue parallel cutting, and the Y-axis direction is mainly used for the cutting of huge workpiece. Three cutting modes make the job of cutting large specimen very easy. All kinds of cutting parameters can be displayed on the large touch-type LCD screen in real time. It is easy to operate the friendly interface. The automatic cutting can reduce operator's fatigue, improve the efficiency of specimen preparation and guarantee the consistency. The super cooling system avoids the damage of burning to the specimen when cutting. Imported gate type safety switch and explosion proof hood can provide the operator with safe guarantee.

Technical specifications

1. 7.5 inch touch-type LCD display system.
2. Automatic cutting operation.
3. Three different cutting modes: Abrasive chop cutting, to-and-fro cutting, lay-to-layer cutting.
4. Adjustable rotating speed: 0-2300 rpm

5. Super large cutting chamber, T-shape worktable, quick clamping vise
6. 3-axis move together. X-axis max. moving distance: 200mm
Y-axis max. moving distance: 300mm
7. Moving precision of cutting worktable: 0.005mm
8. 120L recycle cooling system
9. Gate type safety switch
9. Max. cutting diameter: Ø160mm
10. Motor: 7.5 KW
11. Power supply: 380V, 3-phase, 50Hz



MODEL Q-2 METALLOGRAPHY SPECIMEN CUTTING MACHINE

Taking advantage of rolling sheet wheel with high speed, Model Q-2 Metallography

specimen cutting machine can obtain metallography specimen and it can be widely used to cut various metal materials in metallography laboratories. 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. Besides various metal materials, this machine can also be used to cut other non-metal material such as plastic, rubber hose etc.

Technical specifications

1. Max. cutting diameter: $\varnothing 30\text{mm}$
2. Sand wheel specification: 250 x 2 x 32mm
3. Sand wheel rotating speed: 2800 rpm
4. Motor: 1.1 KW, 380V, 50Hz.
5. Dimensions: 65 x 45 x 40 cm
6. Net weight: 60 Kg



MODEL Q-3A METALLOGRAPHY SPECIMEN CUTTING MACHINE

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.

Technical specifications

1. Max. cutting width: 60mm
2. Max. cutting height: 80mm
3. Max. diameter of cutting surface: Ø50mm
4. Sand wheel specification: 250 x 2.5 x 32mm
3. Sand wheel rotating speed: 2800 rpm
4. Motor: Y900L-2, 2.2 KW
5. Dimensions: 58 × 56 × 68 cm
6. Net weight: 150 Kg



MODEL SQ-80 METALLOGRAPHY SPECIMEN CUTTING MACHINE

Model SQ-80 Metallography specimen cutting machine can be used to cut various metal and non-metal materials so as to get specimen and observe the metallography or lithofacies structure. The equipped cooling system can clear up the heat produced during cutting so that it will avoid the metallography or lithofacies structure deforming of specimen because of heating fluence. 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.

Technical specifications

1. Power supply: 380V, 50Hz (three phases)
2. Rotating speed of main shaft: 2800 rpm

3. Max. cutting diameter: $\varnothing 80\text{mm}$
4. Sand wheel specification: $250 \times 1.2 \times 32\text{mm}$
5. Motor: Y2-1001-2, 3.0 KW



MODEL Q-80Z AUTOMATIC METALLOGRAPHY SPECIMEN CUTTING MACHINE

Model Q-80Z Automatic metallography specimen cutting machine is equipped with big cutting room and movable T-shape work table. Therefore this machine have the ability of cutting rectangle and large specimens. Also the equipped separate type vice is very convenient for operator to clamp various heterotypic workpieces.

Technical specifications

1. Various cutting data can be displayed on high definition backlight type LCD screen.
2. Max. cutting diameter: $\varnothing 80\text{mm}$
3. Max. cutting volume: $\varnothing 80\text{mm} \times 200\text{mm}$
4. Manual and automatic cutting means can be switched at will
5. Non-burning loss swing type cutting means
6. Bidirectional feeding means increase the length of deep cutting
7. Total 7 levels cutting speed setting
8. Sand wheel specification: $350 \times 2.5 \times 32\text{mm}$
9. Equipped with 60L cooling liquid water tank.



MODEL Q-100B AUTOMATIC METALLOGRAPHY SPECIMEN CUTTING MACHINE

Model Q-100B Automatic metallography specimen cutting machine is equipped with big cutting room and movable T-shape work table. Therefore this machine have the ability of cutting rectangle and large specimens. Also the equipped separate type vice is very convenient for operator to clamp various heterotypic workpieces.

Technical specifications

1. Various cutting data can be displayed on high definition backlight type LCD screen.
2. Max. cutting diameter: $\varnothing 100\text{mm}$
3. Max. cutting volume: $\varnothing 100\text{mm} \times 200\text{mm}$
4. Manual and automatic cutting means can be switched at will
5. Non-burning loss swing type cutting means
6. Bidirectional feeding means increase the length of deep cutting
7. Total 7 levels cutting speed setting
8. Sand wheel specification: $350 \times 2.5 \times 32\text{mm}$
9. Equipped with 60L cooling liquid water tank.



MODEL DTQ-5 LOW SPEED PRECISE SPECIMEN CUTTING MACHINE

Model 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.

Technical specifications

1. Movable stand travel: 25mm
2. Positioning accuracy: 0.01mm
3. Rotating speed of main shaft: 0-700 rpm.
4. Diameter of blade: Ø100mm - Ø150mm
5. Power supply: 220V/110V, 50Hz
6. Dimensions: 35 x 35 x 20 cm
7. Weight: 18.5 Kg



MODEL LSQ-100 METALLOGRAPHY SPECIMEN CUTTING MACHINE

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

Technical specifications

1. Cutting power: 3.0KW
2. Sand wheel: 350 x 2 x 32mm
3. Rotating speed: 2800 rpm
4. Max. cutting diameter: \varnothing 100 mm
5. Power supply: 380V or 220V, 50Hz
6. Dimensions: 650 x 600 x 1400mm
7. Equipped with double driving vises & T-notch wide worktable, and this is very favourable for customers to clamp all kinds of strange shape work pieces.
8. Equipped with 60L cooling liquid tank.
6. Equipped with cooling liquid filtering system.
7. Independent cutting illuminating system

8. The sink & cutting room have been specially treated and will never be rusty.