

**ITOKIN TECHNOLOGY CO., LTD.**

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**MODEL LDQ-400A (SPECIALLY CUSTOMIZED)  
MANUAL / AUTOMATIC METALLOGRAPHIC SPECIMEN CUTTING MACHINE**

Model LDQ-400A 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-400A 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.

**Features**

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- Automatic chop cutting in Z-axis. Max. moving distance in Z-axis: 255mm
- Automatic cutting and feeding in Y-axis. Max. moving distance in Y-axis: 300mm
- Automatic moving transverse worktable in X-axis. Max. moving distance: 150mm
- High cutting accuracy, parallelism / planeness is within 0.1mm / 100mm
- Three cutting types in seven cutting modes: Abrasive chop cutting, horizontal cutting, combined cutting (for different materials, diameters and hardness)
- Stepless speed adjustment for rotation of main shaft and feeding speed
- Real time display of cutting parameters such as cutting position, cutting mode, etc.
- High performance large volume circulating cooling system with magnetic filter
- Automatic On/Off protective shield
- Stainless steel board working table
- Water-jet type cleaning system
- Isolated lighting system
- Equipped with quick clamping vice
- 7" colorful touch screen LCD with HMI (Human Machine Interface) controlling.



## Technical specifications

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- Cutting disc size: 400 × 3 × 32mm
- Max. cutting diameter: 150mm
- Main shaft rotating speed: 600-3200 rpm stepless speed adjustable
- Y-axis work table feeding speed: 0.005-99mm/min stepless speed adjustable
- Max. moving distance in X-axis: 150mm
- Max. moving distance in Z-axis: 255mm
- Max. moving distance in Y-axis: 300mm
- Fixed right work table size : 250\*290mm (stainless steel board)
- Transverse movable left work table size: 250\*290mm (stainless steel board)
- Work table T-slot size: 12mm
- 120L circulating and cooling system, equipped with magnetic filter
- Large working chamber 960mm x 690mm
- Motor power: 7.5 KW
- Power supply: 380V, 50Hz, three phases
- Dimensions: 1500 × 1280 × 1720mm
- Net Weight: 820 KG

## Main accessories

- Environmental protection dust removal device: 1 set
- Quick clamping vice: 1 set
- Environmental cooling lubricant liquid: 4L
- Cutting disc: 2 pcs.
- Wrench: 2 pcs.
- Cutting disc fixing nut: 1 pc.
- Water inlet pipe and drainage pipe: 1 pc. for each

## Optional accessories

- Movable supporting stage
- Diamond cutting disc