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Product overview

A metallographic cut-off machine is used to take test specimens. Improper sectioning makes later examination meaningless, so choosing a suitable cutter matters. Select the machine mainly by the size of the workpiece: small parts suit cutters with a small cutting capacity, while larger workpieces require a larger capacity. Match the cut-off wheel to the material for a clean, burn-free cut.

Applications

Metallographic cut-off machines are widely used in the following areas:

1. Metal processing and quality control: precise sectioning of steels and non-ferrous metals to prepare specimens for microstructure analysis, quality control and defect inspection.

2. Aerospace: sectioning high-precision parts such as aircraft and rocket engine components to verify that their microstructure meets requirements.

3. Automotive manufacturing: sectioning body and engine components, supporting material selection and durability engineering.

4. Research and teaching: an essential laboratory instrument in institutes and universities for materials research, structure analysis and teaching experiments.

5. Petrochemical and power industries: sectioning pipes, tanks and similar equipment during maintenance and material inspection.

6. Tooling and die making: precise sectioning that supports efficient, high-quality die manufacturing.

7. Electronics and precision manufacturing: component testing and sectioning of ceramics and semiconductor materials.

8. Other fields: construction, bridges and shipbuilding; mineralogy for constituent and particle analysis; and biomedical sampling.

Specifications

Model	QG-100Z
Control system	Buttons
Door opening	Front-opening
Spindle speed	2840 r/min
Table X travel	Manual, 50 mm
Clamping table	Split platform
Table Y travel	Manual, 250 mm
Max cut capacity	130 × 380 × 100 mm
Cutting mode	Manual
Effective feed distance	Max 220 mm, freely set
Cutting table size	250 × 300 mm
Cutting speed	Manual
Feed mode	Manual
Return mode	Manual
Feed rate	Manual
Progress display	—
Max wheel size	Ø350 × 2.5 × Ø32 mm
Cooling system	Automatic, 4-channel water cooling
Coolant tank	60 L
Motor power	4.0 kW
Frame	Floor-standing
Power supply	380 V
Dimensions	850 × 950 × 1350 mm (L × W × H)
Net weight	300 kg
Gross weight	350 kg

Contact

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Compiled from published product information. Final configuration follows the technical agreement; confirm options, fixtures and scope with an application engineer.

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