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# METALLOGRAPHY ABRASIVE CUTTING MACHINE - QUALICUT™ 7160S



## APPLICATIONS

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### **Metallography Abrasive Cutting Machine - QualiCut™ 7160S**

Metallography Abrasive Cutting Machine - QualiCut-7160S designed for precise sectioning of metal specimens. Powered by a highly reliable SIEMENS PLC and a high-precision stepper motor, it offers strong control and consistent performance. The intuitive touchscreen interface ensures smooth user interaction.

This machine is ideal for preparing metal samples for metallographic and petrographic analysis. It features automated cutting with low noise, user-friendly operation, and a high level of safety and dependability—making it an essential tool in modern laboratories for solid material sample preparation.

#### Metallography Abrasive Cutter - Metallographic Abrasive Cutting Machine

Metallography Abrasive Cutting Machine - QualiCut-7160S

The QualiCut-7160S is a high-capacity automatic cutting machine designed to deliver fast, efficient, and reliable performance for large workpieces.

Modern industries require strict control over every stage of production, including quality checks, to consistently deliver top-tier products. The QualiCut-7130S/7160S series addresses this need with advanced automation, ensuring smooth, safe, and stable cutting operations over the long term.

With its spacious 1250 × 800 mm cutting chamber, the machine accommodates a wide range of parts, making it an ideal solution for precision metallographic applications.

### **User-Friendly Design for Easier Operation**

Engineered for large workpieces, the combination of a sliding door and hinged door provides expanded cutting space and virtually unrestricted access. This makes it simple to position even oversized workpieces with ease.

The intuitive interface and easy-to-control joystick minimize the learning curve, reducing the need for extensive training and resources while ensuring smooth, efficient operation.

### **Stainless Steel Cutting Chamber**

The stainless steel chamber prevents rust and paint damage over time, ensuring greater durability and extending the service life of the equipment.

### **Specialized Cutting Piece Cooling**

Large cutting blades and oversized workpieces demand enhanced cooling. Dual cooling nozzles on each side of the cutting area deliver adjustable spray directly to the workpiece, ensuring optimal cooling and consistent cutting performance.

Metallography Abrasive Cutting Machine - QualiCut-7160S   Metallography Abrasive Cutting Machine - QualiCut-7160S   Metallography Abrasive Cutting Machine - QualiCut-7

## **FEATURES**

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### **Metallography Abrasive Cutting Machine - QualiCut™ 7160S Features**

Metallography Abrasive Cutting Machine - QualiCut-7160S

## **Compact Design, Powerful Performance**

The QualiCut-7130S/7160S is a large-capacity automatic cutting machine designed with precision and efficiency in mind. It delivers strong cutting capability while saving valuable floor space, making it ideal for demanding production environments.

With the largest cutting platform in its class and a spacious 1250 mm wide chamber, it supports the cutting of large workpieces quickly, safely, and reliably.

## **Alarm Light for Enhanced Safety**

When the emergency stop is pressed, or if the front or side door is not fully closed, the system immediately halts. The alarm also activates in the event of overload, overtemperature, or abnormal cutting conditions—flashing red lights clearly indicate when operator attention is required.

## **User-Friendly Operation**

The QualiCut™ 7130S/7160S is designed for simplicity. Its intuitive icon-based interface, fast programming, and joystick control make it easy for operators of all levels to use.

Multiple sensors continuously monitor equipment status, automatically identifying fault locations and providing engineers with accurate diagnostic data.

## **Built-In Safety Protection**

The QualiCut™ 7130S/7160S includes multiple protective systems such as:

- Over-limit alarm
- Automatic interlock detection
- Explosion-proof window design
- Safety lock on doors

During operation, the chamber remains securely locked, preventing access until the cutting wheel comes to a complete stop.

Metallography Abrasive Cutting Machine – QualiCut-7160S

Metallography Abrasive Cutting Machine – QualiCut-7160S

### Sturdy, Bulletproof Plexiglass for Safer Cutting

The machine meets European safety standards with a transparent, reinforced window that resists erosion from abrasive coolant and high-speed cutting debris. The additional bulletproof resin layer further increases durability and operator safety.

### Boost Cutting Productivity

- Adjustable Speed - Optimize cutting speed and achieve high-quality results with difficult workpieces.
- Two Cutting Modes + Two Feed Modes - Maximize cutting flexibility for different materials and applications.
- Automatic Cutting - The wheel automatically returns to the preset start position, ensuring faster and more uniform sample cutting.

Metallography Abrasive Cutting Machine - QualiCut-7160S

Metallography Abrasive Cutting Machine - QualiCut-7160S

## TECHNICAL SPECIFICATIONS

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# Metallography Abrasive Cutting Machine - QualiCut™ 7160S Technical Specifications

Main Technical Parameters	QualiCut™ 7130S	QualiCut™ 7160S
X axis maximum cutting stroke (mm)	240	240
Y axis maximum cutting stroke (mm)	200	200
Z axis maximum cutting stroke (mm)	220	220

Main Technical Parameters	QualiCut™ 7130S	QualiCut™ 7160S
Cutting range (maximum) (mm)	Φ130 130x200 100x410	Φ160 160x200 100x490
Motor Power (KW)	5.5	7.5
Cutting wheel diameter (mm)	Φ400	Φ450
Cutting wheel speed (rpm)	200-2200	200-2200
Voltage	380V	380V
<b>Main Features</b>		
Stepless speed regulation	●	●
Electric traverse workbench	●	●
Electromagnetic safety door lock	●	●
Joystick setting function	●	●
Infrared assisted tool setting	Optional	Optional
Feed quantity intelligent adaptive adjustment system	●	●
Cutting schedule real-time detection	●	●
Feeding method: Continuous feed mode	●	●
Feeding method: Pulse feed mode	●	●
Cutting method: Chop cutting	●	●
Cutting method: Table Feed Cutting	●	●
Color touch screen, PLC control system	●	●

Main Technical Parameters	QualiCut™ 7130S	QualiCut™ 7160S
Alarm system	●	●
Oil mist separation system	Optional	Optional
Magnetic slag discharge cooling system	Optional	Optional
Automatic shutdown judgment	●	●
Use time and count statistics	●	●
Device status information view	●	●



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