



GenCut GL 170XY – Multi Function Abrasive Cut Off Saw with Touch Screen User Friendly Interface and Large Cutting Capacity – Φ 170mm



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Description

The [GenCut GL 170XY](#) has a large 170mm diameter maximum cutting capacity equipped with a fully automated XY table. Equipped with a double hood fully enclosed structure for the safest operation along with quick clamping mechanisms to achieve the most efficient [cutting](#) processes.

A powerful cooling system with two coolant lines reduce the ability for the specimen to get too hot during the cutting process. This ensures the specimen remains intact without any deformity or burn residue. It also allows the GenCut GL 170XY to achieve the best cutting quality while increasing the utilisation rate of the cutting wheel and maximizing the life of the blades.

YouTube video link: <https://youtu.be/br2CHLXc1tI>





GenCut GL170XY Technical Specifications

Model	GenCut GL170XY
Cutting Wheel	Φ450×3.5mm×Φ32mm
Maximum Cutting Section	Φ170mm
Cutting Table Size	600 x 800 mm
Z-Axis (Cutting Blade Spindle Drop Distance)	290 mm
Y-Axis Movement Stroke	750 mm
X-Axis Travel	150 mm
Cutting Feed Speed	1-200mm/min
Water Tank Capacity	150L
Power	480V 60Hz 3Phase
Control System	7" Color Touch Screen Panel, PLC Controller
Cutting Modes	Flat Push Cutting, Intermittent Cutting
Cooling System	Automatic Water Cooling – 2 Lines
Machine Type	Vertical Cutting

The GenCut GL170XY is a PLC-controlled automatic metallographic sample cutting machine. It offers precise control in the X, Y, and Z directions, allowing for automated and accurate cutting. GL170XY is equipped with intelligent cutting capabilities, enabling the adjustment of the feed amount based on the hardness of the material. The cutting speed is controlled through frequency conversion, providing exceptional reliability and precise control over the entire cutting process.

GenCut GL 170XY Standard Configuration

- GenCut GL 120XY Cutting Saw
- Coolant Chamber
- Wrench 62mm
- Wrench 17-19mm
- Wrench 46mm
- Water Inlet Tube
- Drain Pipe
- Diamond Cutting Wheel



- $\Phi 500 \times 4 \times \Phi 32\text{mm}$
- Water Tank and Pump and Operation Manual

GenCut GL170XY Features

- The GenCut GL170XY allows for seamless switching between electronic hand wheel control and automatic control, providing flexibility in operation.
- The touch screen interface of the GenCut GL170XY conveniently displays various cutting data, enhancing user experience.
- With precise positioning capabilities, the GenCut GL170XY ensures accurate and reliable cutting.
- The GenCut GL170XY offers three cutting modes: chopping, intermittent cutting, and reciprocating cutting. It intelligently adjusts the cutting speed based on the material's hardness, enabling fast and efficient cutting.
- To facilitate easy cleaning of the cutting room and ensure the safety of the spindle motor, the GenCut GL170XY incorporates a mechanical and electrical separation design.
- The cutting room security cover of the GenCut GL170XY features a large observation window, allowing users to observe the entire sample cutting process with ease.
- Integrated LED lights in the cutting room provide effective illumination, ensuring excellent visibility throughout the cutting area.
- The GenCut GL170XY features an indoor ventilation fan that efficiently eliminates steam and smoke generated during cutting, improving indoor brightness and clarity.
- Designed with user comfort in mind, the GenCut GL170XY adheres to ergonomic principles. It operates with low noise, boasts user-friendly controls, showcases a visually appealing appearance, and prioritizes safety. As a result, it is an ideal equipment choice for laboratory sample preparation.

Machine Structure

- The GenCut GL170XY features a vertical body form, consisting of the upper safety cover, middle frame, right sliding door, side door, lower frame with electrical box and tool box, fixture, rinsing tap, and an independent cooling water tank.
- With its concise design and robust structure, the GenCut GL170XY utilizes a frequency conversion motor and direct cutting disc, enabling stepless speed regulation. The direct driving mechanism ensures high efficiency, low noise, minimal maintenance, and extended service life.
- The GenCut GL170XY incorporates a specialized cutting design for large workpieces, facilitating easier maintenance and processing of such workpieces. The sliding door and hinged door provide ample space and unrestricted access, making it convenient to position large workpieces. The cutting room allows entry from three directions (up, front, and left).
- To ensure safety and provide observation during cutting, the work area of the GenCut GL170XY is completely enclosed and features a transparent protective cover.



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- Equipped with a dedicated cooling water tank, the GenCut GL170XY stores cooling liquid for optimal performance. It is recommended to avoid using tap water as a cooling liquid. After completing the cutting work, the left rinsing tap can be used to clean the cutting room, and then the safety door can be closed.

The GenCut GL170XY machine is designed to cater to a wide range of applications, including but not limited to ferrous metals, non-ferrous metals, heat-treated parts, forgings, semiconductors, crystals, ceramics, and rocks. Its versatility allows for efficient cutting and processing across diverse materials and industries.

*** Request a [formal quotation](#) or send an e-mail to sales@nextgentest.com for the most up-to-date pricing and applicable discounts and incentives.**

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