

Automatic Sampling and Cutting Machine

Model:LBT-CUT6090

Purpose:

Suitable for precise cutting of various shapes on different materials such as fabric, leather and paper.

Description:

Labtex Automatic Sampling and Cutting Machine adopts a high-end motion controller. It is mainly designed for laboratory materials such as fabric, leather and paper, and can automatically cut various shapes as needed. This product replaces manual cutting, offering higher efficiency, greater precision and enhanced safety.



Instrument Characteristics:

- ◆ Adopts a 7-inch true-color touch screen for an excellent operating feel.
- ◆ Equipped with an advanced 32-bit high-speed DSP, ensuring faster and more stable system operation.
- ◆ Features simple operation, saving time on training and after-sales support.
- ◆ Supports USB flash drive offline file preview and real-time display of the cutter head movement trajectory.
- ◆ Allows device parameter setting completely independent of a PC.
- ◆ Full optocoupler isolation to shield against external electromagnetic interference; axis signals use differential input with strong anti-static performance, ensuring stable and reliable system operation.
- ◆ Supports USB 2.0 high-speed interface for stable USB flash drive reading and writing, compatible with USB drives of all brands.
- ◆ Supports network communication and USB communication for faster and more stable data transmission.
- ◆ All functions are easy to debug and operate, with convenient operation steps.
- ◆ Enhances personal safety protection through systems including power-on reset, manual axis movement speed control, screen lock, emergency stop handling, and three-color status indication.
- ◆ One-key resume cutting function, facilitating continuation of cutting after any interruption during file processing.
- ◆ Requires fewer parameter settings when adjusting cutting effects, making it easy for users to master.
- ◆ Comprehensive functions include V-groove cutting, layered cutting, automatic punch hole recognition, and intelligent zoned adsorption with platform detection.
- ◆ Supports glue dispensing function.
- ◆ Allows installation of multiple cutter heads with different types.
- ◆ Supports oversize cutting and is compatible with file formats generated by various popular typesetting software.
- ◆ Intelligent self-diagnosis system for fault detection.

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Technical Parameter:

Power Supply	DC24V,3A
General-Purpose Equipment	8-channel Universal Photoelectric Isolated Input
General-Purpose Output	32-channel Universal Opto-Isolated OC Gate Output
Controlled Axes	10 Axes
Controlled Tool Heads Count	3 Heads
Accuracy	± 0.01mm
Supported Graphic Formats	G-code, AI, SVG, PDF, DXF, PLT, DST, DSB, UD6 etc.
Supported Software	TroCut CAD
Supported Systems	Windows(Window XP, Vista, Win7, Win8, Win10) Operating System
Maximum Cutting Size	425×340mm
Minimum Diameter	20mm
Cutting Materials	Textile Fabric
Output Port	Ethernet Port
Work Surface	Fixed Workbench
Working Voltage	Single-phase 200V ±10%
Workbench Surface Pad	4mm Fiber Pad
Servodrive	Delta Electronics, Inc.
Cutterhead	Circular Knife Head
Electrical Accessory	24V and 5V Power Supply
Wearing Parts	Workbench Mat
Total Machine Power Consumption	≤2.0kWh
Total Machine Size	1160×730×1330mm
Total Weight	133.5kg