

HST-GTQ5000C Automatic High Speed Precision Cutting Machine



Introduction:

The HST-GTQ5000C automatic high-speed precision cutting machine is a fully automatic, high-speed, precision cutting machine that integrates Y-axis automatic feed, X-axis translation, R-axis automatic rotation, double-blade cutting, and is more suitable for cutting a wide range of materials.

Features:

1. The main shaft is controlled by frequency conversion, with high speed, stepless speed regulation and overload protection.
2. Y-axis cutting methods include manual, automatic, impact, etc.
3. Automatic/manual X-axis parallel movement of sample for parallel cutting of sample (optional). Automatic X-axis parallel movement function, once activated, automatically completes parallel sample cutting
4. Automatic sample rotation cutting effectively reduces sample heat (optional)
5. Two knives cut simultaneously to get two parallel samples in one go (optional).
6. The laser automatically measures the diameter of the cutting disc and controls the cutting line speed for an optimized effect. (Optional)
7. Automatically detect whether the sample has been cut, automatically stop and withdraw the knife when the sample is detected to have been cut during the cutting stroke.
8. During the same cutting process, cutting can be done at multiple different feed speeds and multiple different rotational speeds.
9. Automatically detect the time when the sample cutting is completed, automatically stop the cutting and automatically retract the knife to the initial position without setting the sample cutting stroke.
10. Set parameters can be stored, up to 99 sets of cutting processes can be saved, and corresponding stored parameters can be called for cutting different materials without the need to reset parameters each time.
11. Sample collection net to prevent small samples from dropping.
12. Built-in external circulating water cooling device.
13. The closed transparent protective cover and safety switch provide protection for the operator.
14. Language switch between Chinese and English for easy selection.

Parameters:

Name	Specifications
Cutting discs	Suggested $\phi 200 \times \phi 32 \times 0.9$. Other specifications with diameters less than 200mm are acceptable
Cutting disc type	Diamond, CBN and resin cutting discs
Spindle speed	500-3000r/min (optional 500-5000r/min), stepless speed regulation
Feed speed	0.01 3 mm/s
Manual feed speed	0-5mm/s
Backward speed	0-5mm/s
Impact cutting distance	0.1 2 mm
Cutting stroke (Y-axis)	200mm
Cutting stroke (X-axis) (optional)	40mm
Sample rotation (R-axis) (optional)	0-30 (revolutions per minute), stepless speed regulation
Sample thickness during double-blade cutting (optional)	2-16mm
Maximum cutting diameter	$\phi 60$ mm, $\phi 75$ mm (optional)
Workbench clamping maximum length	150mm (customizable)
Workbench clamping maximum width	215mm (customizable)
Motor	Power: 1.5kw
Cutting parameters	Up to 12 types can be stored
Power supply:	AC220V 50HZ
External dimensions (width X depth X height)	790×870×455mm
Weight	126KG
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