

HST-LDQ160Z Metallographic Sample Large Cutting Machine



Application:

This machine is a metallographic workpiece cutting machine automatically controlled by PLC. It uses a control system to drive the steps, speed servo motor motion control, and automatic and precise control of the X, Y, and Z directions. The cutting amount can be changed according to the hardness of the material to achieve the maximum Fast cutting effect, cutting blade frequency control, can adjust the cutting line speed of the cutting blade. It has very high reliability and control capabilities.

Features:

1. Electronic handwheel, automatic conversion, X, Y, Z manual adjustment and the addition of three-speed adjustment, which can better control the moving speed and carry out cutting and knife setting. (iv)
2. The touch screen displays various cutting data, the display is more accurate, clear at a glance, and the positioning is precise, so that the cutting workpiece can be better positioned during cutting.
3. There are three functional cutting methods: chopping cutting, intermittent cutting, and reciprocating cutting. The cutting speed can be adjusted according to the hardness of the material during cutting to achieve the purpose of cutting the workpiece quickly. When cutting steel solid cylinders, different cutting methods can be selected. .
4. In order to facilitate the cleaning of the cutting room and the safety of the spindle motor, we adopt electromechanical separation; the cutting room motor is protected by waterproof isolation. An oversized observation window is installed on the safety door of the cutting room to allow users to easily observe the entire cutting process of the sample; LED lighting is installed in the cutting room to effectively illuminate the entire area used in the cutting room; it increases brightness and clarity in the studio Spend;

5. The design is more user-friendly and uses ergonomic principles. Its biggest features are: low noise, easy operation, beautiful appearance, and safe use. It is one of the necessary equipment for laboratory sample preparation.
6. Body form; vertical. It mainly consists of the upper part (safety cover), the middle part (frame), the right sliding door, the side door, the lower frame (electrical box), the clamp, the flushing water gun, and the cooling water tank (independent).
7. The variable frequency motor is used to connect the spindle through a multi-ribbed belt. The cutting blade is installed on the spindle to better strengthen the rigidity of the spindle, making it stronger during cutting and improving the stability of the machine. The frequency conversion speed regulation spindle speed is more stable. Simple design, solid construction, direct drive provides power transmission between electric motors and cutting blades, and ensures high efficiency, low noise, minimal maintenance and longer service life.
8. Designed for high-capacity cutting of large workpieces, making it easier to maintain machine parts and handle large workpieces. Sliding and hinged doors give you more space and unlimited access, making it easier to load large workpieces in the right place. The workpiece can also be fed into the cutting chamber from three directions: top, front and left.
9. The working area adopts a fully enclosed structure and has a transparent protective cover for observation during cutting. It is equipped with a cooling water tank to store coolant. Do not use tap water as coolant. After the cutting work is completed, use the left flushing faucet to flush the room. Trash and close the safety door.

Parameters

Cutting method	Chop cutting, flat push cutting
Feeding method	Continuous feeding, pulse feeding
Cutting speed	0.03-1mm/s (adjustment step is 0.01)
Frequency conversion speed regulation	500~2300 rpm
Maximum stroke	Z axis 260mm; Y axis 270mm; X axis 255mm
Workbench size	550*280 550*170
Maximum passing diameter	φ 160mm
Cutting power	7.5KW
Power supply	380V/50Hz
Overall dimensions	1580*1450*1900mm (length × width × height)