

# HST-Q100ABF Manual

## /Automatic metallographic Specimen Cutting Machine

### Application:

HST-Q100ABF Metallographic specimen cutting machine can be used to cut various metal and non-metal materials so as to get specimen and observe the metallographic or lithofacies structure. It is a kind of Manual / Automatic cutting machine and can be switched between Manual and Automatic modes at will. Under automatic working mode, the cutting can be finished without human operation. The machine has large work table and long cutting length which make it possible to cut large samples. The main shaft of cutting disc can also move upward or downward which can prolong the using life of cutting disc greatly. The machine has cooling system so as to clear up the heat produced during cutting and avoid to burn the metallographic or lithofacies structure of specimen because of superheat. This machine features easy operation and reliable safety. It is the necessary specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.

### Features

- Floor type with cabinet, large touch screen and joystick control for easy operation.
- Quick clamping vice which is convenient for specimen clamping.
- LED lighting system for better observation.
- Main shaft of cutting disc is movable upward and downward which can prolong the using life of cutting disc greatly.
- Two working modes of intermittent cutting (for large and hard specimen) and continuous cutting (for small and soft specimen) can be selected.
- The machine can preset the cutting speed according to different specimens, this will improve the cutting performance and quality of specimen.
- Large volume re-circulating cooling system can help to cool down the specimen during cutting process so as to avoid burning damage to the organization.
- The machine can be operated in manual cutting mode or automatic cutting mode.
- Various cutting data can be displayed on high definition backlight type LCD screen.
- Automatic withdraw function after cutting is finished.

### Technical Specifications

|                                         |                                                       |
|-----------------------------------------|-------------------------------------------------------|
| Model                                   | HST-Q100ABF                                           |
| Max. Cutting diameter                   | Ø100mm                                                |
| Cutting disc specification              | 350 X2.5 X32mm                                        |
| Cutting disc rotating speed             | 2300 rpm (or 600-2800 rpm stepless speed is optional) |
| Cutting disc upward and downward moving | 0-50 mm                                               |

|                                                |                             |
|------------------------------------------------|-----------------------------|
| distance                                       |                             |
| Worktable forward and backward moving distance | 0-320 mm                    |
| Automatic feeding speed                        | 0-180 mm/min                |
| Cutting table size                             | 430 x 320 mm                |
| Motor Power                                    | 3KW                         |
| Dimensions and Net weight                      | 930 x 920 x 1310 mm,390kg   |
| power supply                                   | AC 380V, 50Hz, three phases |