

HST-Q100AB Automatic Metallographic Specimen Cutting Machine



1. Applications

Designed for metallographic sample preparation in industrial laboratories, material testing centers, scientific research institutes and universities. It automatically cuts ferrous metals, non-ferrous metals and alloy workpieces, supporting both large hard specimens and small soft samples, to obtain intact metal microstructure samples for subsequent grinding, polishing and microscopic analysis.

2. Applicable Standards

GB/T 13298 Methods for Microstructure Examination of Metals

ASTM E3 Standard Guide for Preparation of Metallographic Specimens

ISO 17639 Metallic materials – Preparation of metallographic specimens

3. Technical Parameters

Parameter Item	Specification
Model	HST-Q100AB
Cutting Chamber Shell	Steel plate
Maximum Cutting Diameter	Φ100 mm
Abrasive Wheel Spec.	300 × 2.5 × 32 mm
Spindle Speed	2300 rpm (Optional stepless speed: 600–2800 rpm)
Up & Down Travel of Cutting Disc	0–50 mm

Parameter Item	Specification
Worktable Forward & Backward Travel	0–320 mm
Automatic Feeding Speed	0–180 mm/min
Cutting Table Size	430 × 320 mm
Motor Power	3 KW
Machine Type	Desktop
Overall Dimension & Net Weight	930×920×610 mm, 330 kg
Power Supply	380V, 50HZ, 3 Phase