



BANBROS ENGINEERING PVT. LTD.

The Precision Measurement People

PRECISION METALLOGRAPHIC SAMPLE CUTTING MACHINE

- *VALUE*
- *VERSATILITY*
- *PERFORMANCE*



BCM-350AT

**DESCRIPTION:**

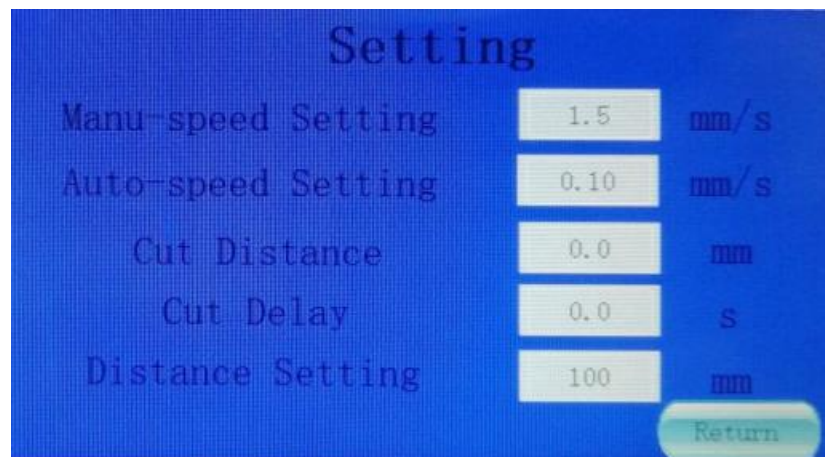
Our **BCM-350A** high precise specimen Cutting Machine can be used to cut material, electronic element, electronic element, crystals, hard alloy, rock sample, core sample, concrete, organic materials, biological materials (teeth, bones), etc. It applies precise cutting without deformation.

FEATURES:

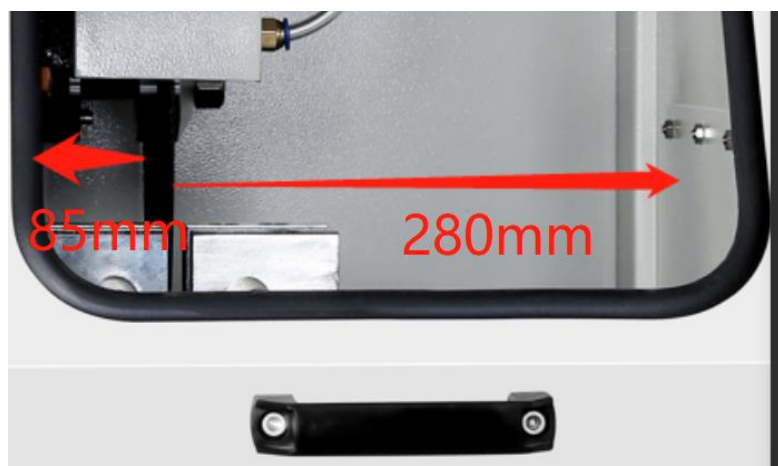
- BCM-350AT high precision Cutting Machine with automatic work mode and manual work mode.
- This machine is composed of body, electric control box, cutting room, motor, cooling system, cutting wheel and other components.
- Can not only cut circular workpieces with a diameter of less than 100mm, but also can cut rectangular samples with a height of 100mm and a depth of less than 200mm.
- The cooling system to prevent the sample from overheating and burning the tissue during the cutting process.
- The machine adopts closed structure, large observation window with high-strength explosion-proof rating and with a metal mesh for protection, ensure safe.
- Quick clamping mechanism, easy to clamp sample.
- Main components adopts stainless material, long service life.
- Emergency stop button, ensure more safe operation.
- The shell of the machine is sprayed with plastic treatment, making the machine more beautiful in appearance and has a good anti-corrosion.

TECHNICAL SPECIFICATION:

Model No.	BCM-350AT	
Cutting Wheel	$\phi 350 \times 2.5 \text{mm} \times \phi 32$	
Maximum Cutting Diameter	$\Phi 100 \text{mm}$	
The Maximum Movement of The Table In Y Axis	275mm	
Spindle Speed	2300r/min	
Cutting Speed	0.01 - 1mm/s	
Cutting Table Size	310*280mm (move follow Y Axis, Optional: X axis for cutting pieces)	
Fixture	Fast clamp fixture	
Feeding Mode	Automatic mode: Cutting wheel move automatically in Y axis (forward - backward), automatic return to original position after cutting work done. Manual mode: Rotate handwheel move work table forward - backward in Y axis	
Automatic Cutting Method	Intermittent cutting (metal workpiece) and continuous cutting (non-metal workpiece)	
Reset Mode	Automatic reset	
Observe Window	High-strength explosion-proof rating window + metal mesh	
Cooling System	Automatic water cooling with 3 channel	
Water Tank	60L	
Feed Depth Tracking	LCD digital display	
Cutting Chamber Housing	Steel plate	
Cutting Room Light	Low voltage dc LED lighting	
Motor Power	3kW	
Voltage	380V, 50Hz, Three-phase four-wire (optional 220V)	
Machine Size / Weight	900x790x600mm, 210kg	
Packing Size / Weight	Cutter: 110*94*80cm, 242kg	Water tank: 54*46*46cm, 27kg



- **Manual Speed Setting:** Set the manual speed, when manually moving the cutting spindle speed, the maximum speed is 2 m m /S.
- **Automatic Speed Setting:** Set the automatic cutting speed, which is set according to the hardness and material of the workpiece to be cut.
- **Cut Distance Setting:** Set the distance to be cut by intermittent cutting method when automatic cutting.
- **Cut Delay:** Set the stopping time of the intermittent cutting method for automatic cutting.
- **Distance Setting:** Set the cutting distance for automatic cutting.



The distance from cutting wheel to left wall is 85mm, from cutting wheel to right side wall is 280mm; If workpieces are very longer, machine right wall reserved hole (loose screen and open the hole will suitable cut off long size samples).

STANDARD ACCESSORIES:

Item Name	Q'ty	Item Name	Q'ty
BCM-350AT	1	Water inlet $\phi 25 \times 1.5\text{m}$	1
Cooling water tank (including pump)	1	Drain-pipe $\phi 32 \times 1.5\text{m}$	1
Wrench (12-14mm, 24-27mm, 36mm)	3	Cutting wheel $350 \times 2.5 \times 32\text{mm}$	2

* Due to continuous product development, Image & specification can be upgrade.