



**BANBROS ENGINEERING PVT. LTD.**

The Precision Measurement People

# METALLOGRAPHIC AUTOMATIC HIGH SPEED PRECISION CUT-OFF MACHINE

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



**BC-150A**

**DESCRIPTION:**

Our **BC-150A** Automatic Metallographic Abrasive cut-off machine can be used to cut various metal and non-metal materials so as to get the required specimen and observe the metallographic or lithofacies structure. It has built in magnetic filtration recirculation cooling system so as to clear up the chips produced during cutting and to avoid burning the metallographic or lithofacies structure of specimen because of heat generated during cutting operation.

Our **Automatic Cut-off machine** is floor model rigid, sturdy and designed to cut metallurgical samples to gain optimal results with increased surface finish and quality that too consistently and safely. The Abrasive cutting wheel is connected with motor with the help of pulley and belt mechanism in a chamber separate from the main cutting chamber.

The machine is PLC programmable and provides longitudinal sectioning (enhancing us to increase the cutting volume) in **Automatic as well as Manual mode of cutting** and has movable T-slot work table.

**FEATURES:**

- Powder coated thick MS sheet body duly fabricated for longer life
- Manual Cutting and Automatic Cutting modes can be switched as per requirement
- Large Cutting chamber with Acrylic glass observing window
- Various cutting parameters displayed on high definition LCD touch display
- Programmable control of operation with servo operated X-Y movement of worktable
- Adjustable feed rate with oscillating cutting operation
- Automatic retract at the completion of the cutting cycle
- Recirculation coolant tank with caster wheels and magnetic filter separator
- T-Slot work table for clamping irregular components
- Cutting Speed: 0.1-5mm/min stepless
- Dual LED lights to provide optimum illumination inside the cutting chamber
- Door limit switch to stop the operation in case the door is opened
- Key protected LCD display for safer operation of machine

**TECHNICAL SPECIFICATIONS:**

<b>Model No.</b>	<b>BC-150A</b>
<b>Cutting Operation</b>	Automatic & Manual
<b>Cutting Capacity</b>	Unto 150mm cross-section
<b>Cutting Mode</b>	Y Axis
<b>Manual/ Motorized</b>	X, Y, Z all three Axis
<b>Cut-Off Wheel Size</b>	16" (400mm) Bore Dia: 25.4mm, Thickness: 2.5mm
<b>Cutting motor Power</b>	10 HP, 2800 RPM, 415 Volts, 50Hz
<b>Abrasive Wheel RPM</b>	2800 RPM
<b>Coolant Motor Power</b>	0.1 HP, 2800 RPM, 415 Volts, 50Hz
<b>Coolant Tank</b>	60 Ltr. Recirculating Coolant tank with Magnetic Separator
<b>Cooling</b>	By flexible high flow water jets to provide optimum cooling
<b>Table movements</b>	X axis –150mm Y axis—250mm
<b>T-Slot Bed</b>	250 x 250mm with 8mm T- Nuts
<b>Safety Feature</b>	Emergency Stop Switch with Door limit Switch
<b>Bed Wash</b>	Will provide high pressure water jet
<b>Light in the working area</b>	Dual LED light in the cutting chamber providing safe and clear illumination.
<b>Power Supply</b>	415 Volts, 50 Hz, (3Phase+1Neutral)
<b>Dimensions</b>	1250 x 1050 x 1300mm (Approx.)
<b>Weight</b>	550 Kg. (Approx.)
<ul style="list-style-type: none"><li>➤ <b>Additional Fixture with respect to component also available</b></li><li>➤ <b>A.C Induction Motor: Bharat Bijlee, Coolant Motor: Rajamane, Automation (PLC, Servo Motor &amp; Drive, LCD display): Siemens</b></li></ul>	

\* Due to continues product development, product image & Specifications are subject to change.

\* Customization can be done as per user requirement.