

# METALLOGRAPHIC AUTOMATIC HIGH-SPEED PRECISION CUT-OFF MACHINE

## DESCRIPTION:

Our **HCM-150A** Automatic Metallographic Abrasive cut-off machine can be used to cut various metal and nonmetal materials so as to get the required specimen and observe the metallographic or lithofacies structure. It has a 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 the specimen because of heat generated during a 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 to a motor with the help of a 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 modes of cutting** and has a movable T-slot worktable.

## FEATURES:

- ☞ Powder-coated thick MS sheet body duly fabricated for longer life
- ☞ Manual Cutting and Automatic Cutting modes can be switched as per the requirement.
- ☞ Large Cutting chamber with acrylic glass observing window
- ☞ Various cutting parameters are displayed on the high-definition LCD touch display.



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- ☞ 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 switches to stop the operation in case the door is opened ☉ Key protected LCD display for safer operation of machine.

## TECHNICAL SPECIFICATIONS:

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

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

\* Customization can be done as per user requirements.

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