

Abrasive CUTTING MACHINE

For Perfect Cutting of
Metallurgical Samples



ECOCUT-100

Abrasive cutter is rugged, sturdy and designed to cut Metallurgical Samples to optimal quality consistently and safely. Cutting Wheel spindle is connected with motor shaft by pulley and belt mechanism. The movement of cutting wheel towards the specimen is applied by handle fixed with motor base pivot spindle and the cutter unit is balanced by springs for smooth chop type movement. Corrosion

resistant window. Cooling by three high flow water jets to provide optimum cooling. Large (25mm) drain, re-circulation coolant tank working on 440 volts, AC main supply with coolant tank of sufficient capacity. The chop type cut off wheel machine is suitable for quick and clean cutting of metallography specimen from rods & tubes etc.

FEATURES

- ❖ X-Y Movement of stage is made up of M.S, Specially designed.
- ❖ High performance double vice fixed on stage
- ❖ Coolant circulation System is provided with suitable filtering arrangement.
- ❖ Light attachments system is provided for clean and accurate cutting of samples.
- ❖ Heavy Duty motor is provided 5 H.P, 3 Phase.
- ❖ Large Viewing window to monitor the cutting operation.

TECHNICAL DATA

- ❖ 5HP Cutting Motor, RPM - 1400
- ❖ Cut off Wheel Dia - 400mm
- ❖ Cooling by 3HP High Speed Jets
- ❖ Coolant Tank Capacity 200 Ltr.
- ❖ 75mm Drain
- ❖ 1kW Coolant Recirculation Pump
- ❖ Cutting Capacity - Up to 100x150x200mm and very spacious Chamber for easy Operation and Maintenance
- ❖ Water Proof illumination Standard
- ❖ All three Axis movement standard x, y, & z
- ❖ Standard Coolant Spillage Tray - SS 326 Grade
- ❖ Standard Door Safety Inter Lock System
- ❖ Standard - Auto Wash System with Coolant Jet Assembly
- ❖ Phase Monitoring system is Standard Features
- ❖ Keypad and Touch Screen based operation, customised for your components.
- ❖ Multi Jet high pressure cooling system using programmed 1 HP Pump.



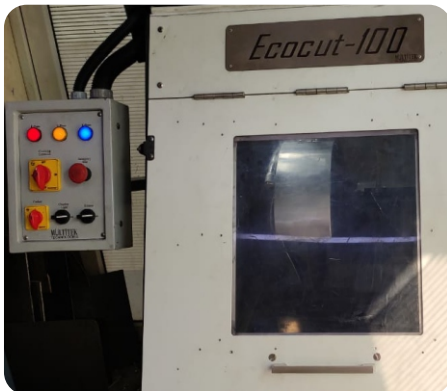
WORK INSTRUCTIONS FOR ECOCUT-100, ABRASIVE CUTTING MACHINE

- ❖ R-phase, Y-phase and B-phase indicator light for 3 Phase line
- ❖ Cutting Spindle switch for On/Off of cutting motor
- ❖ Emergency Stop switch is for stop all machine functions during running this machine
- ❖ Coolant switch for On/Off OD coolant motor
- ❖ Chamber Light switch for on/Off Led Lights of Chamber
- ❖ Exhaust switch is for On/Off of Chamber Exhaust



CLEAN STAGE, VICE AND COOLANT TRAY EVERYDAY

Please check Coolant Tank fulfill with 70-90% cutting oil before use



Use Door handle for gate open and Close



Tight hold your part between both vices



Set two coolant water jets



Use this handle for X-axis move



Use this handle for Y-axis move



Do handle down for sample cutting

SERVO-CUT-8A

FEATURES

- **1) Industrial Shop Floor Automatic Abrasive Cutting Machine Servocut-8A**
Features / Catalogues Attached with PLC and Drives
 - 7.5 HP Triple Belt Drive,
 - Internal Chamber 1000x1000X1000 mm
 - Three Axis Movements.: 550X400X300 mm.
 - Keypad and Touch screen based operation, customised for your components.
 - Cutting Wheel Oscillations movements in addition to Conventional cutting using High RPM cold abrasion.
 - Multi Jet high pressure cooling system using programmed 1 HP pump.
 - Multijet High Pressure machine wash system for 1 touch cleaning of entire Cutting Chamber
 - Double Limit switches provision in mechanically and extra inputs in PLC
- *All three working modes simultaneously available:*
 1. Fully Manual mode using Hand Levers
 2. Semi-Automatic using Hand held Keypad Control
 3. Fully Programmed mode for totally hands free operation and preset parameters.



- 2) **Motorized X Movement for Cross Feed using Mitsubishi/ Delta VFD and Gear Box.**
- 3) **Double Layer tray filtration System with double sieves - will accommodate and tear off existing filter paper**
- 4) **Programmable and Variable RPM for cutting Wheel from HMI using Mitsubishi/ Delta VFD**
- 5) **Automatic Servo System for Z axis for programmed depth of cuts.**
- 6) ***Extra charges for all SS 304 16 Gauge fabrication for entire inner and outer cutting chamber with SS Ribs support and SS Screws***

SERVO CUT-15A

FEATURES

- **1) Industrial Shop Floor Automatic Abrasive Cutting Machine Servocut-15A Features / Catalogues Attached with PLC and Drives**
 - 15 HP Triple Belt Drive,
 - Internal Chamber 1500x1000X1000 mm
 - Three Axis Movements.
 - Keypad and Touch screen based operation, customized for your components. Cutting Wheel Oscillations movements in addition to Conventional cutting using High RPM cold abrasion.
 - Multi Jet high pressure cooling system using programmed 2 HP pump.
 - Multijet High Pressure machine wash system for 1 touch cleaning of entire Cutting Chamber
 - Magnetic Chip Separator
 - Double Limit switches provision mechanically and extra inputs in PLC

 - *All three working modes simultaneously available:*
 1. Fully Manual mode using Hand Levers
 2. Semi-Automatic using Hand held Keypad Control
 3. Fully Programmed mode for totally hands free operation and preset parameters.

- 2) **Motorized X Movement for Cross Feed using Mitsubishi/ Delta VFD and Gear Box.**
- 3) **Double Layer tray filtration System with double sieves - will accommodate and tear off existing filter paper**
- 4) **Programmable and Variable RPM for cutting Wheel from HMI using Mitsubishi/ Delta VFD.**
- 5) **Automatic Servo System for Z axis for programmed depth of cuts.**
- 6) **Rotary Table dia 1000mm, Weight Capacity – 1000 Kgs**



FULLY PROGRAMMED MODE FOR TOTALLY HANDS FREE OPERATION AND PRESET PARAMETERS.



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