

# BAINCUT **XL Manual**



**EXTRA LARGE HEAVY DUTY  
CUT OFF MACHINE**

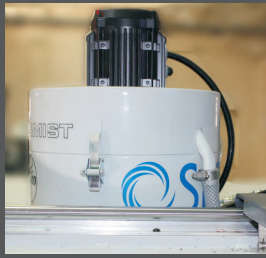
# Baincut XL

Abrasive Cutting Machine Extra Large



- Sturdy Floor Model Cutter for sectioning Metallography Samples
- Heavy Duty Steel construction
- Corrosion Resistant Cutting Chamber for a long product lifetime
- Two Way Sliding Door System – Large envelop to place bigger components
- **Cutting Capacity up to 150 mm Dia for standard steels (may not be applicable to all the materials)**
- **15 HP (11 k.w), 3 Phase AC Motor**
- **Cut-off Wheel dia 20" (500mm)**
- **Spindle speed 1650 rpm to 1800 rpm**
- User friendly operator panel with Control Switches for Cutting, Coolant, LED light, Emergency Stop button with Door Safety Interlock Switch
- Splash proof, Corrosion resistant see-through enclosure
- Cutting Axis:
- Manual "Z" Movement with Ergonomic Handle Wheel
- Manual "Y" Movement (350mm) for Longitudinal Sectioning
- Manual "X" Movement (200mm)
- Cooling System:
- **In-built Movable Coolant Tank with 200 ltrs capacity**
- 0.3 Kw Coolant Recirculation Pump with Overload Protection
- Cooling by high flow Coolant jets to provide optimum Cooling (4 nos)
- **Cut off wheel cooling system**
- Easy Flow Cutting Chamber with Special Floor Coating
- One large drain for coolant recirculation
- Flash cleaning attachment with hook for mounting
- Water Proof focused LED lamp in the working area provides clear illumination
- **T-Slot Bed: 500mm x 500 mm with 12 mm T-Slot**
- Screw Vise Set





Fume Digester



Water Proof LED Light



Door safety interlock



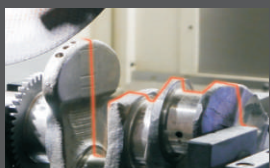
Cut off wheel cooling systems



Auto Wash



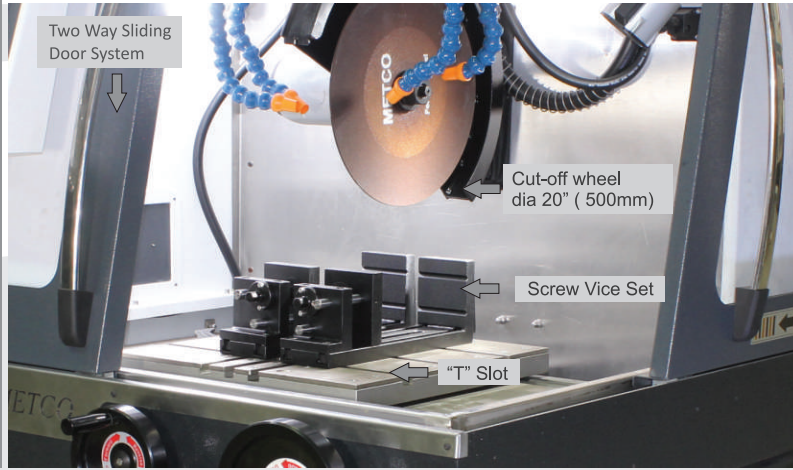
Manual Clening System



Laser Line Marking System

## Heavy Duty Steel construction

Corrosion Resistant Cutting Chamber for a long product lifetime



"T" Slot Bed: 500mm x 500mm with 12mm T-Slot

### Magnetic Separator

- Note: This helps to separate the dust particles and sends the clean coolant for the recirculation

### Door Safety Interlock System

- Note: Additional Safety Feature where the Door cannot be opened unless the Cutting process is stopped

### Bed Wash

- Note: To clean the Bottom base bed Automatically while cutting and you can save operator Cleaning time

### Auto Wash

- (To set the required time and leave the machine to clean automatically, So that you can save operator Cleaning time)

### Loto Switch & Tag Out

- Note: During Maintenance and Break Downs the Loto Switch can be switched off and locked with the tag key. This prevents from switching on the machine by mistake and avoids damage

### Phase Monitoring System

- Note: In the event of failure of one phase, this unit will stop the Machine and protects the motor from overheating and failure
- Voltage: 415V/50 Hz (R+Y+B+N+E)
- Machine Size: 2100mm x 2150mm x 2400mm (L x D x H)
- Machine Color: Enclosures RAL9003, Base & Stand RAL 7021

## Optional Accessories

### Laser Line Marking System

- Note: To know in advance the exact cutting area Koppel Fixture (Indigenous )

### Koppel Fixture ( Imported )

- Note: Additional Fixture to hold irregular shaped components
- **Koppel Fixture ( Indigenous )**

### Fume Digester

- Note: This helps to recirculate the fume caused while cutting into coolant. Gives clear vision on cutting process

# Extra Large Heavy-duty Cutting Machine

## **Koppel Fixture Height Adjustment Block**

- Note: Height Adjuster for the Koppel Fixture to additional 60 mm for different diametrical components

## **Variable Speed System**

Note: Cutting Wheel RPM can be varied from 1000-3000 RPM

## **High pressure Coolant System**

- Note: This enables the coolant to reach the inner cutting area with higher velocity. Mostly used for cooling sensitive components

## **Imported Hoist**

## **Static Paper Filter System**

- Note: Used to filter the Coolant Dust up to 50 to 100 micron level and send clean coolant to the Recirculation tank

## **Oscillation Movement for Z – Movement**

- Oscillation movement reduce 40% time compared without oscillation cutting machine and saves time for the user, a significant reduction of effort, the contact point between sample and cut-off wheel is always less so easier to the cutting operation

## **DC Braking System**

- Note: Additional Safety Feature to stop the Motor and the cutting wheel immediately once the Cutting is stopped- You must order variable speed system

## **Rotary Chuck**

- Note: Reduce cutting time and to avoid over heating of hard Materials (Note :If required as per your application, must be ordered along with Machine purchase, later cannot be included)

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