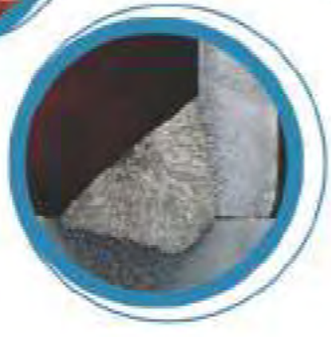
Finest Products for
Microstructure / Material Testing



Everything in
Metallography /
Hardness Testing
from one roof,
including
Turnkey labs

[redacted]

METALLOGRAPHY

Metallography is the art and science of preparation and examination of materials for their microstructure using microscopes.

The success of examination and interpretation of microstructure depends on the quality of the surface preparation. This in turn depends on cutting, grinding, mounting and polishing to a high degree to get a mirror-like reflective surface free from scratches. While the skill of the operator is important to get a high quality of surface, the Equipment / Consumables used for preparation play a crucial role.

Chennai Metco, as leaders in the field of Metallography in India, provides a full range of Metallography equipment from Cutting Machines to Metallurgical Microscopes including Image Analysis systems, Hardness Testers and Lab Furniture.

Besides, we also supply the entire range of Consumables for Research, Quality Control and Testing.

METALLOGRAPHY
SECTIONING

SECTIONING, the removal of a conveniently sized and representative specimen from a larger piece is the first major operation in the preparation of metallographic specimen.

Incorrect preparation techniques can cause micro structural changes that lead to erroneous interpretation.

The selection of the right cutter/right tool is the first crucial step of specimen preparation.

Abrasive Cutting, with copious supply of coolant to ensure that no thermal damage takes place, is the most widely used method of sectioning materials for microscopic examination.

Chennai Metco provides a wide range of Abrasive Cutters, including tailor made ones, to suit the specific needs of the customer sample.

We have also developed very large cutters to section bigger and long sized components such as crankshafts.

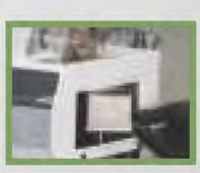
Backed by a strong R&D and with a strong commitment to quality, Chennai Metco now have emerged to be a global player in this field.

Precision Cut Off Machine

Baincut LSS (LOW SPEED SAW) LSS 003

The precision section saw is designed for slicing all types of materials with ease. The slow speed cutter is mostly used for accurate sectioning of very small, hard components for R & D.

- Cutting capacity upto 20 mm - 4" wheel ★
- Cutting capacity upto 30 mm - 5" wheel ★
- Rotating fixer to increase double the capacity - 40 mm (Option)
- Built-in S.S coolant tray
- Down-feed facility with different weights upto 400 grams
- **Advanced Color touch screen HMI**
- Continuously variable speed 60 - 600 RPM
- Micrometer for cross-feed adjustment upto 25 mm
- Transparent splash guard
- Power single phase : 220V/50Hz or 110V/60Hz
- Diamond blade size : upto 5" dia



Precision Cut Off Machine

Baincut LSS Plus (LOW SPEED SAW PLUS)

LSS 003P

- Cutting capacity upto 50 mm ★
- Rotating vise can increase cutting depth
- Inbuilt coolant tank
- Down-feed facility with different weights upto 400 grams
- **Touch screen with pre set programs**
- Continuously variable speed 60 - 1000 RPM
- Micrometer for cross-feed adjustment upto 25 mm
- Transparent splash door
- Power single phase : 220V/50Hz or 110V/60Hz
- Diamond blade size : upto 7" dia

Precision Cut Off Machine

Baincut HSS (HIGH SPEED SAW) CMHSS049

The Precision saw for cutting all types of materials with variable spindle speed. Automated Y movement adds to the convenience. A must for slicing Surface Engineered components, Hard, Sensitive applications. Preferred by Research Laboratories.

- Cutting capacity upto 40 mm dia ★
- Rotating vise can increase cutting depth
- Door Interlock limit switch (option)
- Re-circulating coolant system
- Automatic Y-Movement (Longitudinal)
- Variable speed system 100-4000 rpm
- Variable feed rates and cutting length
- Precision serial cutting (option)
- Power single phase 1HP : 220V/50Hz or 110V/60Hz
- Diamond / Abrasive wheel upto 200 mm dia (8")
- Machine Size: 790 x 800 x 470 mm (L X B X H)

Precision Cut Off Machine

BAINCUT HSS PLUS CMHSSP060

Highly Preferred by Research labs

Same as HSS, but with added features

- Cutting capacity up to 50 mm ★
- Large Movable Cutting T - Slot Table- 190 x 200mm
- "Z" Movement upto 40 mm.
- Door safety Interlock system
- 2 HP, 3 Phase Motor
- X Movement scale reading system
- Variable speed 100-5000 rpm
- Powerful LED lamp
- Diamond or Abrasive wheel upto 8" (200 mm) dia
- Easy to clean cutting chamber
- Fume exhaust port
- **Auto precision Serial Slicing (Optional)**
- Machine Size: 1000 x 890 x 750 mm (LXBXH)
- Power single phase 2HP : 220V/50Hz or 110V/60Hz

Abrasive Cut Off Machine

Baincut Medium CMM001

A popular general purpose cut-off machine with simple construction FRP hood, viewing window, internal illumination, re circulation coolant system, washing jet, safety limit switch. Chop cutting by lowering the wheel with the handle (Z movement).

- Cutting size up to 60 mm dia ★
- Powered by 3 HP (2.2 kw), 3 Phase motor
- Rust proof steel construction
- Inbuilt movable re circulation coolant tank
- Z axis Movement - Manual
- Wheel Dia 10" (250 mm)
- Spindle speed 2800 rpm
- T-slot bed : 110 X 200 mm with 12 mm "T" slot 2 Nos
- Door Limit switch / emergency stopper
- Easy operator panel
- Door Inter lock (Option)
- Electronic Brake (Option)
- Side opening for longer components
- Power : 415v / 50 Hz or 220v / 60 Hz
- Machine Size : 850 x 850 x 1550 mm (LXDXH)

Medium Auto
with Touch Screen
CMM001

Baincut Medium
Table Top CMT022

Same as above "medium" floor model but **with out "stand"**. Machine can be kept on a table. Coolant tank with coolant pump provided.

Machine Size : 700 x 600 x 580 mm (LXDXH)

Abrasive Cut Off Machine

Baincut Upper Medium CMU002

A sturdy floor model general purpose cutter. Large space in the cutting zone offers flexibility to use wide variety of fixtures. Cutting action possible by lowering the arm (Z movement) and longitudinal table movement (Y axis) through cutting plane (Y - movement). Additional side movement (X - movement) option is of advantage. Lockable Z movement wheel position offers extra convenience. Suitable for variety of applications including small gears, medium sized auto components and shafts.

- Cutting capacity up to 80 mm dia ★
- Powered by 5 HP (3.7 kw), 3 Phase
- Three Axis Movement (X,Y and Z)
- Inbuilt movable re-circulation coolant tank
- Cut-off wheel dia 12" (300 mm)
- Safety emergency stop with door limit switch
- Easy operator panel
- Table size : 260 x 260 mm with 10mm T-Slot
- Side opening for longer components
- Door safety interlock (option)
- Electronic Brake (Option)
- Power : 415v / 50 Hz or 220v / 60 Hz
- Machine Size: 1100 x 1300 x 1640 mm (LXDXH)

Baincut UM Auto

CMU002A

PLC with Graphical Touch Screen Display

- Cutting action- Automatic " Y "movement (Table) with Servo System
- PLC with Graphical Touch Screen Display
- Variable Feed Rate with Cutting Length
- Pre Set Programming & Data Storage upto 25 programmes
- The Machine offers also manual mode for increased flexibility

Abrasive Cut Off Machine

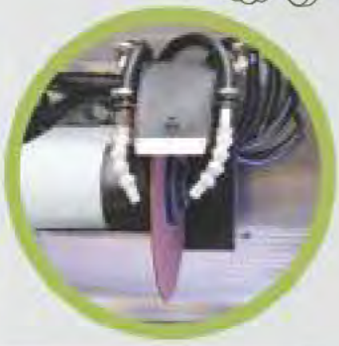
Baincut Large Plus Auto CMLP015A

Sliding Door

Automatic Large plus heavy-duty cutting machine with Integral construction. Standard
Y automation. Pulse cutting for burn free cutting. Preset parameters for consistency.

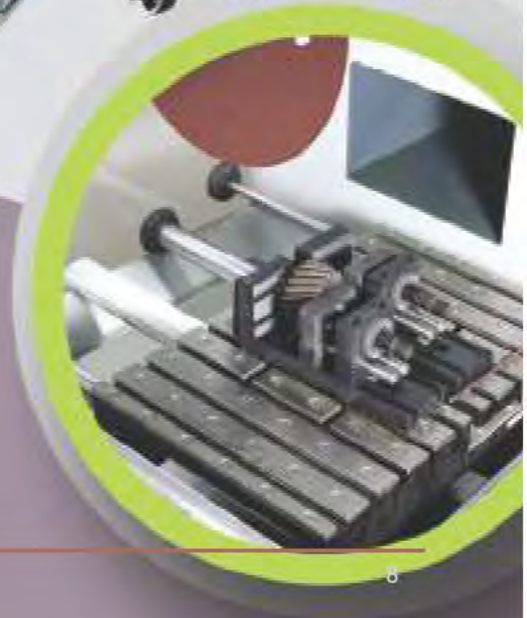
- Cutting Capacity about 130 mm dia ★
- Powered by10 HP (7.5 kw), 3 Phase Motor
- Three axis movement (X,Y and Z)
- Cutting action Y Movement Automatic (longitudinal)
- Cut-off wheel dia 16" (400 mm)
- Inbuilt movable - re circulation coolant tank
- Heavy duty Screw Vise
- Side opening for longer components
- Table size : 254 X355 mm X 2 Nos with 12 mm T-Slot
- Spindle speed 1850 rpm (variable speed at option)
- Serial cutting (Option)
- Electronic brake (Option)
- Door interlock (Option)
- Z - Movement Auto (Option)
- Power : 415v / 50 Hz or 220v / 60 Hz
- Machine Size: 1540mm x 1120mm x 1800 mm (LXDXH)

Manual Model Available
CMLP015



Abrasive Cut Off Machine

Baincut Large Auto CML004A



- Cutting Capacity up to 110 mm dia ★
- Powered by 7.5 HP (5.5 kw), 3 Phase motor
- Cut-off wheel dia 14" (350 mm)
- Spindle speed 1900 rpm
- Table size : 254 X 355 mm X 2 Nos with 12mm T-Slot
- Machine Size: 1520 x 960 x 1600 mm (LXDXH)

Abrasive Cut Off Machine - Extra Large Auto

Baincut XL Auto CMXL016A

Automatic Extra Large heavy-duty cutting machine with Integral sliding door construction. Standard Y automation with optional Z automation. Pulse cutting, step cutting etc.,for burn free cutting. Preset parameters for consistency and ease of use.

- Cutting Capacity up to 150 mm dia ★
- Powered by Motor 15 HP, 3 Phase motor
- Cut-off wheel dia 20" (500mm)
- 3 Axis user friendly movement (X,Y & Z)
- 'Z' Movement automatic with Servo system
- Coolant Tank with 200L capacity
- Advanced PLC based Graphical Touch Screen System with Pre set programs
- High flow Multiple Coolant jets (4 Nos)
- Magnetic Separator
- Paper band filter system (option)
- Fume digester
- Door Safety Interlock System
- Bed Wash and Auto Wash for a clean machine
- Table : 600 X 600 mm with 14mm T-Slot
- Serial Cutting (Option)
- Laser Line Marking System (Option)
- Y - Movement Auto (Option)
- Variable speed 1000 - 3000 rpm (optional)
- Power : 415v / 50 Hz or 480v / 60 Hz
- Machine Size: 2100 x 1700 x 2200 mm (LXDXH)

Baincut XL Manual Available

CMXL016

Heavy Duty Abrasive Cut Off Machine - Double Extra Large Auto

Baincut XXL Auto CMXXL017A

Automatic bigger sized fully loaded cutting machine with top Closed design. Two side sliding door provides voluminous internal space to section big components and also easy access.
Standard Z & Y automation. Pulse cutting, step cutting modes for burn free cutting. Variable spindle speed included.

- Cutting capacity up to 180 mm dia ★
- Powered by 30 HP (22.5 kw), 3 Phase Motor
- Cut-off wheel dia 20" (500 mm)
- Variable Speed 1000 - 3000 rpm
- 3 Axis user friendly movement
- 'Y' Movement and "Z" Movement automatic with Servo System
- Laser Line Marking system
- Advanced PLC based Graphical Touch Screen System with Pre set programs
- High flow coolant jet system with Bed Wash and Auto Wash for a clean machine
- Magnetic Separator
- Fume digester
- Door Safety Interlock System
- Table 600 X 600 with 14mm T-Slot
- Paper band filter system (option)
- Serial Cutting (Option)
- Power : 415v / 50 Hz or 480v / 60 Hz
- Machine Size: 2100 x 2150 x 2400mm (LXDXH)

Manual Model Available CMXXL017

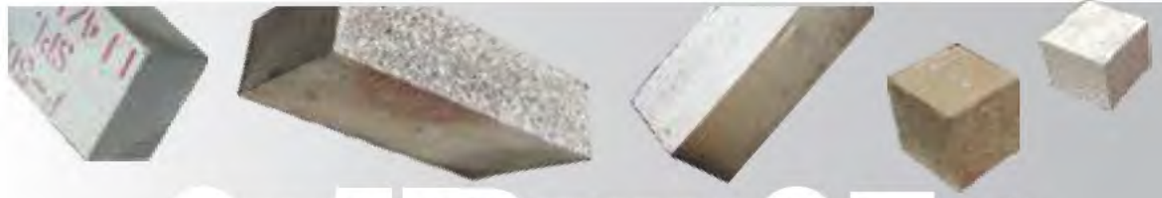
Heavy Duty Abrasive Cut Off Machine - Triple Extra Large Auto

Baincut XXXL Auto CMXXXL018A

There are industrial components that require real extra power for sectioning, here is a machine that can handle big / tough components. Intelligent cutting modes like step cutting, cradle cutting, jump cutting and pulse mode used for easy sectioning.

- Cutting capacity up to 180 mm dia ★
- Powered by 40 HP (30 kw), 3 Phase Motor
- Cut-off wheel dia 24" (600 mm)
- Variable Speed 1000 - 3000 rpm
- Table size 600 X 600 mm with 14mm T-Slot
- 3 Axis user friendly movement
- "Y" Movement and "Z" Movement automatic with Servo System
- Door Safety Interlock System
- Advanced PLC based Graphical Touch Screen System with Pre set programs
- High flow coolant jet system with Bed wash and Auto wash for a clean machine
- Magnetic Separator , Fume digestor
- Paper band filter system (option)
- Serial Cutting (Option)
- Machine Size : 2100 X2150 X 2400 mm (LXDXH)
- Power : 415v / 50 Hz or 180v / 60 Hz

★ **It is suggested that your component is subjected to trials to decide right model of cutter**



Special Purpose Cutters

Automatic Refractory Bricks Diamond Cutting Machine

CMSRC022A

Used to slice Refractory Bricks. Can be also used to cut Rocks, minerals, concrete, ceramics and other geological samples.

- Cutting capacity upto 1000mm X 150mm x 100mm ★
- Powered by 10 HP, 3 Phase AC motor
- Inbuilt movable re-circulation coolant tank
- Diamond wheel dia 14"/16"
- Pulse cutting / Step Cutting / Continuous cutting
- User friendly for 3 Axis operation
- T slot bed: 500mm X 500 mm with 8mm T-slot
- Power : 415v / 50 Hz or 220v / 60 Hz
- Machine size: 2100mm x 2150mm x 2400 mm (LxDxH)

Manual Model Available

DIAMOND WIRE CUTTER Baincut DWC CMDWC01A

Bar Section / Linear Guide Section / Ball Screw / Rail Section Hardened Chrome Rod Cutting Machine with Roller Stand

CML032A

- Cutting capacity about 100 x 85 mm dia
- Powered by 10 HP (7.5 KW), 3 Phase motor
- Inbuilt movable re-circulation coolant tank
- Cut-off wheel dia 14" & 16"
- Easy Operator panel with touch screen display
- Hydraulic Clamping System
- Auto Stopper System upto 2.5 metre
- Safety emergency stop with door limit switch
- Power : 415v / 50 Hz or 220v / 60 Hz
- Paper band filter system (option)
- Automatic bar feeding (Option)
- Machine Size: 1600 X 1000X 1200 mm

CARBIDE ROD CUTTERS

CMC019A/ CMC028 / CMC029

Fully automatic specialized carbide rod cutter

Suitable for mass production

Robotic

CMC019A

Sturdy Floor Model Cutter for Carbide Rod Sectioning

Cutting capacity Min 3 mm to 40 mm dia

Carbide Rod length 50 mm To 350mm

Diamond Wheel dia 8" (200 mm)

Spindle Speed 100-4000 RPM (Variable System)

Spindle dia 31.75 mm((25.4 mm Optional)

5HP (3.5 k.w), 3 Phase Motor

Voltage: 415V/50 Hz (R+Y+B+N+E) / 220V, Cutting Action

Automatic cutting Z Movement system with Servo System

Automatic Carbide Rod Loading system

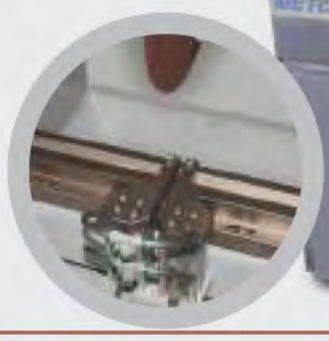
Automatic Carbide Rod Length positioning System

Variable feed rates for Cutting Carbide rod

Automatic individual Hydraulic clamping system

Simple

Automatic



MOUNTING

MOUNTING the specimen after sectioning is often necessary for subsequent handling and Metallographic polishing. Mounting has several benefits, especially in hand polishing when specimen flatness and edge retention are important Specimen mounting has other benefits such as

- Uniform flatness for either manual or automatic grinding and polishing machine
- Easier handling of specimens that are too small and fragile
- Chennai Metco Mounting Presses are engineered with best in class techniques with international standards

Pneumatic hot mounting press

Suitable for high volume.
For Phenolic mountings only.

Pneumatic Manual

- Pneumatic operating System
- Inter Changeable moulds 1¼" and 1½"
- Optional: Metric mould dimensions : 30 and 40 mm
- Heater 1600 Watts , Single Phase
- Manual Water cooling system
- User friendly feather touch button
- Machine Size : 530 x 600 x 470 mm (LXDXH)
- **Optional: Water cooling Re-circulation system**
- Buzzer on completion of cycle
- Power supply : 220V/110V

Bainmount P
MPP006

Bainmount
P Auto
MPP006A

Pneumatic Auto

Digital Temperature Indicator and Digital Timer with Display, Automatic Water Cooling System.

Optional: Water cooling Re-circulation system

Manual hot mounting press

Direct reading pressure gauge, timer with buzzer at the end of cycle.

- Inter changeable moulds 1¼",1½" and 2" dia,
- Optional: Metric mould dimensions : 30, 40 & 50 mm
- Heater 1600 Watts , Single Phase
- Digital Temperature Indicator & digital timer
- Timer-Buzzer for heating and cooling cycles
- Manual water cooling system
- User friendly feather touch button
- Machine size : 580 x 610 x 550 mm (LXDXH)
- **Optional: Water cooling Re-circulation system**
- Power supply : 220V/110V

Bainmount
Hydraulic
MPH007

Hydraulic hot mounting press Auto

- Hydraulic Automatic system
- Setting of Temperature, Heating Time, Mounting Pressure, Cooling Time, Ram up and down, Cycle Start can be done and controlled through the Touch Screen Pad
- Modern Metallography Practices now demand variable heating, cooling and high pressure during moulding for enhanced results like high mould hardness and edge retention.

AUTOMATIC HYDRAULIC MOUNTING PRESS

- Inter changeable moulds 1¼",1½" and 2" dia,
- Optional: Metric mould dimensions : 30, 40 & 50 mm
- Heater 1600 Watts , Single Phase
- LCD Parameter Indicator
- User Friendly advanced 7" LCD Touch Screen
- Ideal for Transparent, EPO & Bakelite moulds preparation
- Preset Programs & Data Storage of Mounting Parameters up to 25 Programs
- Timer-Buzzer for heating and cooling cycles
- Twin mould spacer
- Automatic Water Cooling System
- Machine size : 430 x 570 x 510 mm (LXDXH)
- Optional: Water cooling re-circulation system
- Power supply : 220V/110V

Bainmount H Auto
MPH007A

Bainmount Twin H Auto
MPHD007A

Automatic Hydraulic Mounting Press with Dual Cylinders

Same as above

Simultaneous mounting in both cylinders can be done for higher volume throughput

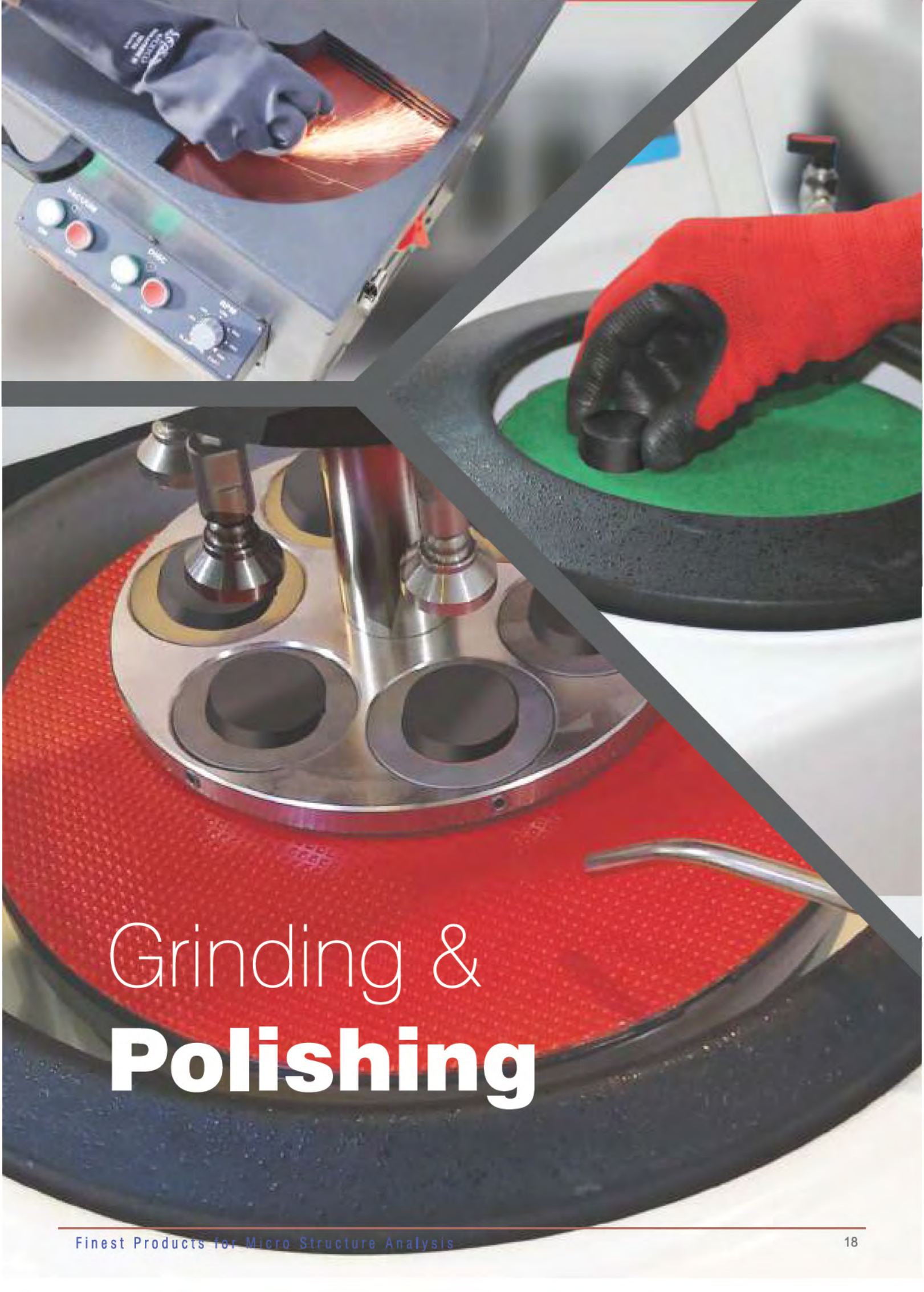
Machine size : 650 x 630 x 510 mm (LXDXH)
Power supply : 220V/110V

Automatic Hydraulic Mounting Press with Auto Doser (For the extra automation, including filling the cylinder with mounting medias)

Automatic cylinder size detection indicator.

Bainmount HD Auto
MPHAD007A

Soft water is recommended. In case of unavailability, we suggest to buy recirculation system for trouble free operations.



Grinding & **Polishing**

GRINDING

Grinding involves process of coarse grinding prior to fine grinding to obtain flat surface, followed with steps of fine grindings.

Polishing, in one or more final steps, in specimen preparation is to get mirror finished surface. This process is necessary to get the clear view of the microstructure in the specimen

It is done through a series of SiC sheets, diamond platens, cloths, and suspensions to obtain mirror like and planar surface in the specimen.

Coarse flat grinding is preferably done in abrasive belts. We offer simple, heavy and twin wet machines.

Chennai Metco offers a full range of Table Top, Floor Model, Manual, Semi Automatic and Fully Automatic Polishing Machines

Our State of the Art Fully Automatic Polishers are ideal for laboratories looking for high quality consistent results for demanding applications.

For flat, coarse grinding prior to fine grinding. The specimens are to be ground in 60,80 or 120 grit after cutting / mounting

ROLLER GRINDER HBR023

Five Stage - Manual Grinder

Self-contained, four-stage fine grinding station with a controlled water flow for lubrication and flushing

Grinding Surface Dimensions - 3 at 3 7/16" x 10"

Recommended water pressure 40 to 100 psi

Bainline-GP BG010

BELT GRINDER - General Purpose

- Motor : 0.5 HP Single Phase
- 100 mm x 915 mm endless belt
- Simplified belt change and alignment mechanism
- Machine Size: 560 x 350 x 230 mm
- Work piece area : 100 X 190 mm

Bainline-twin wet TBG011

TWIN BELT GRINDER - WET

- Motor : 1 HP 3 phase motor, 1440 rpm
- 100mm x 915mm endless belt
- Simplified belt change and alignment mechanism
- Water cooling
- Machine Size: 670 x 680 x 290 mm
- Work piece area : 100 X 240 mm

For the best results in grinding

Optional Variable Speed

FLOOR MODEL TBG 012

Size: 670 x 680 x 290 mm

with Re circulation water cooling system(Option)

Bainline-H BGH005

HEAVY DUTY BELT GRINDER

- 1 HP 3 phase motor
- 150 mm x 1220 mm endless belt
- Simplified belt release and alignment mechanism
- Mechanical double speed design
- Machine Size : 700 x 500 x 1100 mm
- Work piece area : 150 X 250 mm

Bainline-VSG VSG014

VARIABLE SPEED SPECTRO GRINDER

As per spectroscopic preparation standard

- 1 HP 3 phase motor
- 14" (350mm) Vacuum Disc
- Variable Speed 100 to 2880 rpm
- 1 HP Vacuum system
- Machine Size : 510 x 840 x 930 mm

Single speed also available (SGS)

Single speed 2880 rpm SSG013

Fully moulded FRP/ABS cover. Quick change disc design enables discs with different grits / polish cloths to be used in desired steps.

Bainpol - VT PMV008

VARIABLE SPEED TABLE TOP SINGLE DISC

- 0.5HP high torque AC motor
- Single Phase input 220v/50Hz or 110V/60Hz
- Imported AC Drive
- 8" disc dia. standard
- 10" & 12" dia options
- LCD display
  Feather touch control
- 50 to 1000 RPM or 50 to 600 RPM (Continuously adjustable)
- Machine Size : 360 x 660 x 310 mm

Bainpol - VTD PMV009

VARIABLE SPEED TABLE TOP DOUBLE DISC

- 0.5HP high torque AC motor
- Single Phase input 220v/50Hz (or) 110V/60Hz
- Imported AC Drive
- 8" disc dia. standard
- 10" & 12" dia options
- LCD display
- Feather touch control
- 50 to 1000 RPM or 50 to 600 RPM (Continuously adjustable)
- Machine Size : 710 x 660 x 310 mm

PMV018 Bainpol - VTD Individual Drive

VARIABLE SPEED TABLE TOP DOUBLE DISC INDIVIDUAL DRIVE

Same as above but two independent motors. Get extra power and individual operation.

BAINPOL - SA

Economic automation for less demanding applications

SEMI AUTOMATIC, VARIABLE SPEED SINGLE / DOUBLE DISC

PMV012

- Auto head to hold 3 samples
- 0.5 HP high torque Motor
- Independent Powered Polish Head
- Variable speed 50- 600 rpm
- Head speed 100 rpm
- Imported AC Drive
- LCD Display
- Feather touch control
- 12" disc standard (10" optional)
- Metric Mould option 30,40,50 mm

PMV033

VTD SA also available

BAINPOL - Auto

FULLY AUTOMATIC VARIABLE SPEED

- World class Auto polishing machine systems
- User Friendly advanced 7" LCD Touch Screen
- Setting of Head Up/Down, Disc Direction, Head direction, Head speed, Individual Force can be controlled through the Touch Screen
- Ideal choice for the laboratories looking for quality and reproducible results

Central Pressure PMV028C

- Central Pressure Loading System
- Pressure on sample 40-240 N
- Specimen Leveling Plate for flatness
- Applicable for samples without moulding

Optional
Auto Doser
FA33C2

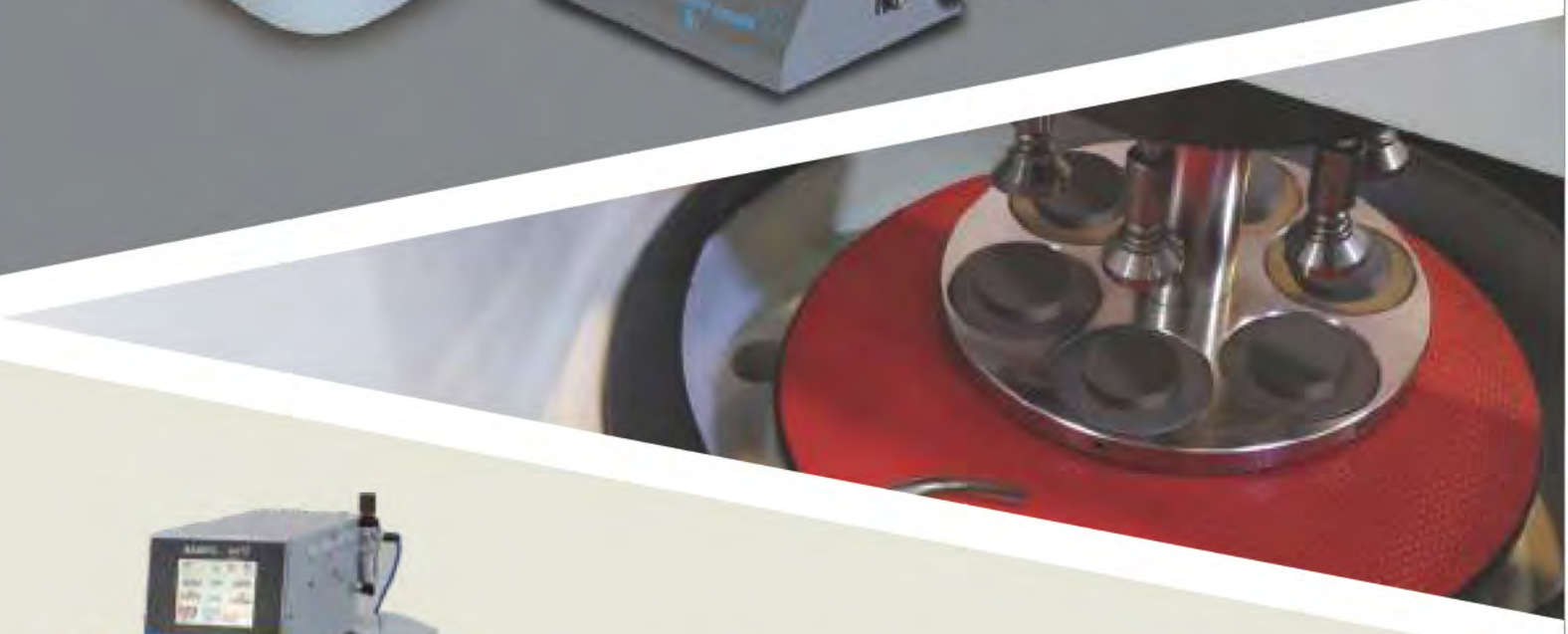
BAINPOL - Auto PMV028I

FULLY AUTOMATIC VARIABLE SPEED SINGLE DISC

Individual Pressure

Also Available Central cum Individual Pressure PMV028IC

- Can hold upto 6 moulds
- Hold multiple moulds : 1 ¼" dia (std), 1 ½" and 2"
- Metric Mould option 30,40,50 mm
- Disc size 10" (12" Optional)
- 1 HP high torque AC motor
- Single Phase Input
- Variable Disc speed 50 to 600 rpm
- Variable Head speed 30 to 150 rpm
- Reliable imported Electronics
- Individual pressure specimen loading
- Individual force 10 - 90 N
- Machine Size: 850 X 500 X 600 mm



BAINPOL - Auto Double Disc PMV050

Double Disc Fully Automatic Grinder / Polisher with swingable arm

Machine Size:950 X 850 X 750 mm

Large Specimen Preparation

Particularly suitable for high volume/Large specimen preparation. Includes compartments for storing consumables

BAINPOL-VFD PMV035

VARIABLE SPEED - HEAVY DUTY FLOOR MODEL DOUBLE DISC

- 12" disc dia, 8" & 10" dia option
- 0.5 HP AC motors
- Single Phase Input
- Variable speed AC drive
- 50 - 600 RPM
- Individual drive for high power
- Storage Compartment
- Size : 870 x750 x1020 mm

BAINPOL-VFD SA PMS036

BAINPOL-VFF (Four Disc) PMV064

VARIABLE SPEED - HEAVY DUTY FLOOR MODEL FOUR DISC

Demanding customers prefer the convenience of multi station preparation.

- 12" disc dia (8"&10" dia Option)
- 0.5 HP AC motors
- Single Phase Input
- Variable speed AC drive
- 50 - 600 rpm
- Individual drive for high power
- Compartment to store consumables
- Size : 1740 x 750 x 1020 mm

Triple disc also available (VFT) PMV066

Robotic Grinder Polisher

Fully Automatic Programmable Grinding/Polishing System

Developed with IIT - Madras

Robotic Polisher is developed for operator free sample preparation. It helps to get high volume Sample throughput starting from planar/coarse grinding to cleaning and drying.

Four station Grinder/Polisher with automatic head movement, Automatic Foil Changing, Auto Dosing system

One course grinding, two fine grinding and one polishing station

Can accommodate the 250/300mm discs

Fully automatic sample cleaning station with ultrasonic cleaner with dryer

Graphic touch panel for operation

Intuitive programs with upto 50 preset recipes.

- Grinding/Polishing
- Robotic Arm
- Industry 4.0

12" disc dia (10" dia option)
1HP AC motor
single Phase Input
Variable Speed AC drive
50-600 rpm
PLC based touch screen system
Individual drive for high power
compartment to store consumables
Size: L:3121, W: 1087, H: 1693

Robotic Grinder Polisher

Fully Automatic Programmable Grinding/Polishing System

Two Station

- Grinding/Polishing
- Robotic Arm
- Industry 4.0

Developed with IIT - Madras