



# VIBRO ENGINEERING PRIVATE LIMITED

Concept Of Mass Finishing



**In-House  
Manufacturing**



**Skilled  
Workforce**



**Precision  
Assembly**



**Quality  
Tested**

# MANUFACTURING FACILITY

Advanced Vibro Equipment Assembly



**In-House**  
Manufacturing



**Skilled**  
Workforce



**Precision**  
Assembly



## DESIGN & ENGINEERING DEPARTMENT



**In-House**  
Manufacturing



**Skilled**  
Workforce



**Precision**  
Assembly



Exhibition Showcasing Vibro Finishing Machines

## VIBRO FINISHING MACHINES



GIMA Workshop: Manufacturing & Parts Inventory

# STANDARD VIBRO MACHINE

**HEAVY DUTY  
CONSTRUCTION**

**EFFICIENT  
VIBRATORY ACTION**

**UNIFORM  
FINISHING RESULTS**

- **Deburring & Surface Smoothing**
- **Polishing & Descaling**



A Standard Vibro Machine is widely used for deburring, surface smoothing, polishing, and descaling of metal and non-metal components. It provides uniform vibratory action to achieve consistent finishing results with minimal part damage. Suitable for mass finishing applications, it is ideal for automotive, hardware, engineering, and fabrication industries, offering high efficiency, low maintenance, and reliable performance.

## STANDARD VIBRO MACHINE

| Model    | Outside Diameter (mm) | Bowl 'U' Width (mm) | Volume (Ltr) | Motor Hp |
|----------|-----------------------|---------------------|--------------|----------|
| SVM-50   | 685                   | 168                 | 50           | 0.25     |
| SVM-100  | 925                   | 240                 | 100          | 0.5      |
| SVM-200  | 1055                  | 280                 | 200          | 1.5      |
| SVM-400  | 1400                  | 365                 | 400          | 3.0      |
| SVM-600  | 1540                  | 405                 | 600          | 5.0      |
| SVM-800  | 1710                  | 505                 | 800          | 7.5      |
| SVM-1000 | 1860                  | 530                 | 1000         | 10       |
| SVM-1200 | 1990                  | 630                 | 1200         | 10       |

# BALL BURNISHING MACHINE

A Ball Burnishing Machine is used for surface finishing, polishing, and mirror-like shine enhancement of metal components. It improves surface smoothness, brightness, and dimensional accuracy by cold working the surface using steel balls. Ideal for brass, stainless steel, aluminum, and decorative components, it delivers high-gloss finish, reduced surface roughness, and improved corrosion resistance, making it suitable for automotive, hardware, jewellery, and precision industries.



## BALL BURNISHING MACHINE

| Model   | Outside Diameter (mm) | Steel Media Capacity (Kg) | Motor Hp |
|---------|-----------------------|---------------------------|----------|
| BBM-50  | 685                   | 100                       | 0.5      |
| BBM-100 | 925                   | 200                       | 1.5      |
| BBM-200 | 1055                  | 400                       | 3        |
| BBM-400 | 1400                  | 800                       | 5        |



# VIBRO SEPARATION MACHINE

A Vibro Separation Machine is used for efficient separation of finished components from media after the vibratory finishing process. It ensures quick, damage-free separation with minimal manual handling, improving productivity and workflow efficiency. Designed for smooth discharge, low noise operation, and easy integration with vibratory machines, it is ideal for mass finishing, automotive, hardware, and fabrication industries.



## VIBRO SEPARATION MACHINE

| Model    | Outside Diameter (mm) | Bowl 'U' Width (mm) | Motor Hp |
|----------|-----------------------|---------------------|----------|
| VSM-125  | 925                   | 240                 | 0.5      |
| VSM-250  | 1055                  | 280                 | 1.5      |
| VSM-550  | 1400                  | 365                 | 3        |
| VSM-900  | 1710                  | 505                 | 7.5      |
| VSM-1200 | 1860                  | 530                 | 10       |





## VIBRO DRYER MACHINE

A **Vibro Dryer Machine** is used for quick and uniform drying of components after vibratory finishing or washing processes. It combines vibration and controlled hot air circulation to remove moisture efficiently without damaging parts. Ideal for metal, plastic, and precision components, it ensures spot-free drying, improved surface finish, and faster production cycles. Suitable for automotive, hardware, and mass finishing industries.

| Model   | Outside Diameter (mm) | Bowl 'U' Width (mm) | No. of Heater | Heater Capacity (kw) | Motor Hp |
|---------|-----------------------|---------------------|---------------|----------------------|----------|
| VDM-50  | 660                   | 165                 | 2             | 0.500                | 0.25     |
| VDM-100 | 990                   | 245                 | 2             | 0.500                | 1.0      |
| VDM-200 | 1150                  | 296                 | 3             | 0.750                | 1.5      |
| VDM-500 | 1360                  | 360                 | 4             | 1.00                 | 3.0      |
| VDM-900 | 1710                  | 470                 | 6             | 1.00                 | 5.0      |

# CENTRIFUGAL FINISHING MACHINE (MANUAL)

A **centrifugal finishing machine** is an industrial surface-finishing unit used for deburring, polishing, edge-rounding, and surface smoothing of metal or plastic components. It operates by rotating a work chamber at high speed, creating centrifugal force that presses parts against abrasive media for fast, uniform finishing.

The machine features a robust enclosed cabinet for safety, a transparent viewing window, and a front control panel for setting speed and cycle time.

It is designed for high productivity, decreasing time compared to vibratory finishing machines. Suitable for precision components in automotive, aerospace, hardware, and general manufacturing industries.



| Model  | Barrel Capacity (Ltr) | Power HP | W x D x H (mm)     |
|--------|-----------------------|----------|--------------------|
| CFM-10 | 2.5L x 4              | 1.5      | 925 x 840 x 1010   |
| CFM-30 | 7.5L x 4              | 3.0      | 1075 x 1170 x 1205 |
| CFM-40 | 10L x 4               | 5.0      | 1190 x 1230 x 1200 |

# Trough Vibro Machine

Designed for **Continuous Deburring, Smoothing, Polishing & Descaling**

A **Trough Vibro Machine** is designed for continuous deburring, surface smoothing, polishing, and descaling of components in a linear flow process. Its trough-shaped bowl allows controlled part movement, easy separation, and gentle handling, making it ideal for long, flat, or fragile components. Widely used in sheet metal, press parts, automotive, and fabrication industries, it delivers uniform finishing, high productivity, and easy integration with automation systems.



- ✓ **Uniform Finishing**
- ✓ **High Productivity**
- ✓ **Easy Automation Integration**

| Model   | Working Capacity (Kg) | Power (HP) | Dimensions (W×D×H in mm) |
|---------|-----------------------|------------|--------------------------|
| TVM-50  | 50 Kg                 | 2          | 1800 × 800 × 950         |
| TVM-100 | 100 Kg                | 3          | 2200 × 900 × 1000        |
| TVM-200 | 200 Kg                | 5          | 2600 × 1000 × 1050       |
| TVM-300 | 300 Kg                | 7.5        | 3000 × 1100 × 1100       |

# RECTANGULAR VIBRATORY FINISHING MACHINE

(LINEAR VIBRATORY MACHINE)

A Rectangular Vibratory Finishing Machine is designed for efficient deburring, descaling, surface smoothing, and polishing of large, flat, or delicate components. Its linear vibration ensures controlled part movement, uniform finishing, and minimal part-to-part damage. Ideal for sheet metal parts, press components, automotive and fabrication industries, it offers consistent results, easy automation, and high productivity.



## SPECIFICATIONS

| Model    | Total Volume(ltr) | Length(mm) | Width(mm)         |
|----------|-------------------|------------|-------------------|
| VTFM 50  | 50                | 640        | 1245 x 1350 x 305 |
| VTFM 300 | 300               | 1200       | 1375 x 1500 x 550 |
| VTFM 600 | 600               | 2700       | 1425 x 1740 x 465 |
| VTFM 900 | 900               | 3800       | 1475 x 1835 x 465 |

# CENTRIFUGAL FINISHING MACHINE (AUTOMATIC)

An automatic centrifugal finishing machine is designed for high-speed, high-precision surface finishing of metal and non-metal components. It uses powerful centrifugal force to achieve rapid deburring, polishing, edge rounding, and surface smoothing with consistent results. Ideal for mass production, it offers short cycle times, uniform finish, and minimal manual intervention, making it suitable for automotive, hardware, jewellery, and precision parts industries.



## CENTRIFUGAL FINISHING MACHINE (AUTOMATIC)

| Model   | Barrel Capacity (Ltr) | Power HP | W x D x H (mm)     |
|---------|-----------------------|----------|--------------------|
| CFM-40  | 10L x 4               | 5.0      | 1245 x 1350 x 1630 |
| CFM-60  | 15L x 4               | 7.5      | 1375 x 1500 x 1630 |
| CFM-80  | 20L x 4               | 7.5      | 1425 x 1740 x 1740 |
| CFM-100 | 25L x 4               | 10       | 1475 x 1835 x 1925 |

# VIBRATOR POLISHER MACHINE - P.U



## Vibrator Polisher Machine - P.U

Vibrator Polishing Machine fuses a Synthetic Rubber (SR) or POLYURETHANE (PU) lined bowl of 'U' cross area mounted on definitively determined springs. The machine is driven by a profoundly effective vibratory motor. The open top of the bowl can be stacked with reasonable ceramic/plastic or steel media and parts to be handled. Since the parts and the media are moving at little additions on each stroke, the parts are not exposed to extreme pressure or harm. Vibratory completing is the favored reasonable decision for general deburring, getting done pre-plate finish, and so forth of fragile or weighty parts and for accuracy deburring/wrapping up.

### ✦ PRODUCT SPECIFICATIONS ✦

| Product Name            | Media Cap. | Tub Size | Motor Size |
|-------------------------|------------|----------|------------|
| VIBRATOR MACHINE 0.5kg. | 5kg.       | 9X4X4    | 0.12 HP    |
| VIBRATOR MACHINE 1kg.   | 10kg.      | 10X6X6   | 0.25 HP    |
| VIBRATOR MACHINE 2kg.   | 15kg.      | 14X6X6   | 0.25 HP    |
| VIBRATOR MACHINE 3kg.   | 20kg.      | 15X7X7   | 0.5 HP     |
| VIBRATOR MACHINE 5kg.   | 25kg.      | 17X7X7   | 0.75 HP    |
| VIBRATOR MACHINE 7kg.   | 40kg.      | 20X8X8   | 0.75 HP    |
| VIBRATOR MACHINE 9kg.   | 50kg.      | 19X09X9  | 1 HP       |
| VIBRATOR MACHINE 12kg.  | 80kg.      | 24X12X12 | 1 HP       |

# MAGNETIC POLISHER MACHINE



## Magnetic Polisher Machine

This programmable magnetic polisher having auto reverse/forward action with advanced digital display. The machine is constrained by solid sensible single stage motor and fitted with shocking quality magnets to give most outrageous ability to better cleaning quality and for long life. These attractive polishers are available in various sizes. The machine is provided finished up with suitable attractive media, cleaning arrangement and cleanser. This is programmable magnetic polishing machine. It has auto reverse/forward operation with digital display. This machine is used on single phase motor with 230V.

### ◆ PRODUCT SPECIFICATIONS ◆

| Product Name             | Media Cap. | Tub Size | Motor Size |
|--------------------------|------------|----------|------------|
| MAGNETIC MACHINE 0.25kg. | 150gm.     | 6"       | 0.12 HP    |
| MAGNETIC MACHINE 0.5kg.  | 400gm.     | 8"       | 0.5 HP     |
| MAGNETIC MACHINE 1kg.    | 800gm.     | 10"      | 0.5 HP     |
| MAGNETIC MACHINE 2kg.    | 1kg.       | 12"      | 1 HP       |
| MAGNETIC MACHINE 2kg.    | 80kg.      | 12"      | 1 HP       |

# ULTRASONIC CLEANING SYSTEM



## Ultrasonic Cleaning System

An ultrasonic cleaning system is a precision cleaning unit designed to remove oil, grease, dirt, carbon, and microscopic contaminants from components. It uses high-frequency ultrasonic waves transmitted through a cleaning liquid to create cavitation bubbles that gently yet effectively clean complex shapes, blind holes, and fine surfaces.

The system features a stainless-steel tank, user-friendly control panel, and efficient heating and filtration options. It is ideal for cleaning metal, plastic, electronic, and precision parts in automotive, aerospace, medical, jewelry, and general manufacturing applications.

### ◆ PRODUCT SPECIFICATIONS ◆

| Model  | Tank Capacity (Ltr) | Ultrasonic Power (W) | Heating Power (W) | W × D × H (mm)   |
|--------|---------------------|----------------------|-------------------|------------------|
| UCS-10 | 10                  | 300                  | 1000              | 600 × 350 × 300  |
| UCS-20 | 20                  | 600                  | 1500              | 700 × 450 × 350  |
| UCS-30 | 30                  | 900                  | 2000              | 800 × 500 × 400  |
| UCS-50 | 50                  | 1500                 | 3000              | 1000 × 600 × 500 |
| UCS-50 | 50                  | 1500                 | 3000              | 1000 × 600 × 500 |

# MEDIA

**Media helps make parts clean, smooth, and well-finished.**

Media is used to clean, smooth, and improve the surface finish of parts. Inside the machine, the media moves together with the parts and helps remove burrs (sharp edges), rust, oil, dirt, and surface marks.

Media is used in centrifugal and vibratory finishing machines. It is commonly used for metal and plastic parts in automotive, hardware, engineering, and precision component industries. Different types of media are selected depending on the required job, such as deburring, polishing.



Deburring



Polishing



Shining



# PORCELAIN MEDIA



**Highly  
Durable**



**Precise  
Grinding**



**Versatile  
Shapes**



**Smooth  
Finish**

# PORCELAIN MEDIA



Porcelain Elliptical Media



Porcelain Tristar Media



Porcelain Cylinder Media



Porcelain Spherical Ball Media



Porcelain Triangle Media



Porcelain Super Finishing Media



Highly Durable



Precise Grinding



Versatile Shapes



Smooth Finish

# PLASTIC MEDIA SHAPES



Plastic Triangle Media



Plastic Cone Media



Plastic Star Media



Plastic Pyramid Media



Plastic Paraboloid Media

- ✓ Various Plastic Media Geometries
- ✓ Ideal for Mass Finishing Applications
- ✓ Manufacturing & Tumble Finishing



# CERAMIC MEDIA



- ✓ Variety of Ceramic Media Shapes & Sizes
- ✓ Engineered for Precision Tumbling



# Ceramic Tumbling Media

High-performance ceramic media for deburring, surface finishing, and polishing



## Ceramic Wedge Media

- ✓ Angled wedge shape
- ✓ Excellent surface coverage
- ✓ Ideal for heavy deburring



## Ceramic Ellipse Media

- ✓ Oval, cylindrical shape
- ✓ Smooth, even finishes
- ✓ Versatile deburring & polishing



## Ceramic Triangle Media

- ✓ Triangular shape
- ✓ Aggressive cutting action
- ✓ Effective for burr removal



## Ceramic Cone Media

- ✓ Cone-shaped design
- ✓ Smooth surface finishing
- ✓ Efficient for polishing & deburring



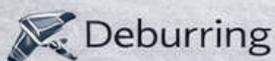
## Ceramic Cylinder Media

- ✓ Cylinder-shaped media
- ✓ Consistent & uniform action
- ✓ Durable & long-lasting



## Ceramic Tri-Star Media

- ✓ Tri-star-shaped media
- ✓ Enhanced surface coverage
- ✓ Ideal for complex geometries



Deburring



Polishing



Burnishing

# Steel Media

High-Performance Stainless Steel Tumbling Media for  
Finishing, Polishing, and Deburring

 **High-Strength**  
& Corrosion-Resistant



Deburring



Polishing



Burnishing

## Stainless Steel Ball Media



- ✓ Precision spherical shapes
- ✓ Superior hardness & durability
- ✓ Ideal for burnishing & polishing

## Stainless Steel Saturn Media



- ✓ Unique Saturn-shaped design
- ✓ Strong deburring & polishing action
- ✓ Highly durable & corrosion-resistant

# Dry Polishing Media

Used in Tumbling for Metal, Plastic, and Jewelry Polishing



Corncob Media – 3mm to 5mm



Corncob Media



Corncob Media – 0.5mm to 1.5mm



Wooden Media



Corncob Media – 2mm to 3mm

— IDEAL FOR —  
**TUMBLING  
& POLISHING**

# CHEMICAL



# CLEANING CHEMICALS

Industrial Degreasers & Surface Cleaning Solutions



## METSOL-10

Heavy-duty industrial degreaser



## METSOL-11

Surface cleaner for oils and greases



## METSOL-12

High-performance degreaser



## METSOL-13

Effective cleaner for machinery

# DEBURRING CHEMICALS

Industrial Compounds for Deburring & Surface Finishing



## METSOL-24

General-purpose deburring compound



## METSOL-39

High-performance deburring solution



## METSOL-53

Specialized finishing compound



## METSOL-18

Precision deburring additive

# RUST PROTECTION CHEMICALS

Industrial Compounds for Rust Prevention & Corrosion Protection



## METSOL-650

- General-purpose rust protection compound
- Suitable for a wide range of metals
- Provides reliable corrosion resistance

## METSOL-900

- High-performance rust protection solution
- Formulated for extreme conditions
- Offers superior and long-lasting protection



**Prevents  
Rust**



**Corrosion  
Resistance**



**Long-Lasting  
Protection**



**Industrial-  
Grade**

# RUST REMOVAL CHEMICALS

Industrial Compounds for Rust Dissolution & Surface Restoration



## METSOL-ALP

- Rapid-action rust remover
- Safe for various metal surfaces
- Restores surfaces effectively

## METSOL-RPP2

- Powerful rust dissolver
- Ideal for heavy rust build-up
- Revives and cleans surfaces



**Dissolves  
Rust**



**Safe for  
Metals**



**Restores  
Surfaces**



**Industrial-  
Grade**

# POLISHING CHEMICALS

Industrial Compounds for Polishing & Finishing



**METSOL-P9**

**METSOL-P9**

General-purpose polishing compound



**METSOL-66**

**METSOL-66**

Heavy-duty polishing solution



**METSOL-322**

**METSOL-322**

Advanced polishing compound



**METSOL-311**

**METSOL-311**

Emulsion-based polishing compound



**METSOL-400**

**METSOL-400**

High-precision finishing additive

# → **METSOL** **COMPOUNDS**



| PRODUCT             | APPLICATION   |
|---------------------|---|
| <b>METSOL - 11</b>  | MS/ Forgings, Sheet Metals  |
| METSOL - 12         | Aluminium / Mazak/MS Polish   |
| METSOL - 13         | MS / Shetmetal Deburring  |
| METSOL - 14         | Brass / Polish  |
| <b>METSOL - 311</b> | Copper / Brass Polish   |
| METSOL - 322        | Rust Preventive   |
| METSOL - <b>RPL</b> | Stainless Steel   |
| METSOL - 91         | SILVER  |
| METSOL - 96         | GOLD  |
| METSOL - 90         | Plastic Beads   |
| METSOL - 10         | Artl. Jewellery   |
| METSOL - 13         | General Deburring   |
| METSOL - 13         | MS/Press Out Deburring  |
| METSOL - 17         | MS/Press Out Hard Material  |
| METSOL - 18         | SS/ Deburring   |
| <b>METSOL - 400</b> | Sheet Metal/ Deburring  |
| METSOL - 16 HD      | Descaling /MS Parts   |
| METSOL - P9         | Polishing / Steel Parts   |
| METSOL - RP         | Rust Preventive   |
| <b>METSOL - 36</b>  | General Hard MS/Part  |
| METSOL - 991        | Temporary Protection Against Rusting During Process                 |
| METSOL - 992 HD     | Liquid Base Rust Preventive Provide Protection From 7 Day To 15Days |
| METSOL - 993 HD     | A Heavy Duty Degreaser & Paint Remover For Ferrous Metals           |
| METSOL - 995        | Aluminium Cleaner   |
| METSOL - 996        | Treatment Produces Smooth Black Coating On M.S                      |
| <b>METSOL - 997</b> | Heat Treatment Scale Removing Liquid                                |
| METSOL - 998        | Multi Metal Cleaner Cum Degreaser                                   |
| METSOL - 998        | Degreasing & Miid Derusting At Room Temperature                     |





## Die Castings



## Clamp Rings



## Splined Shafts & Sleeves



## Cut Blanks



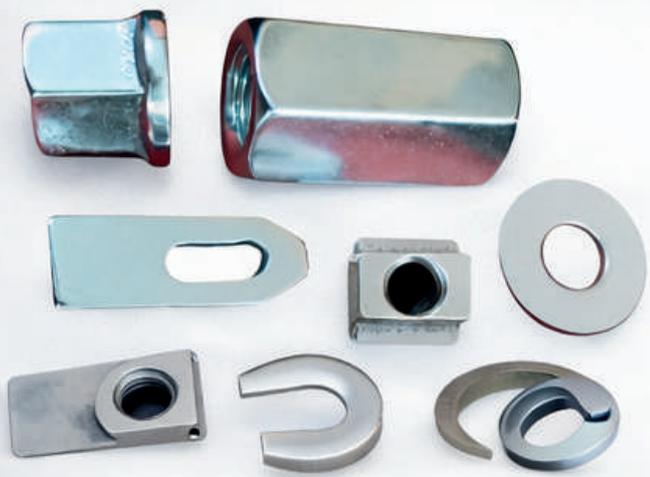
## Machined Tracks



## Utensil Blanks



### Custom Components



### Lady Bust Castings



### Small Blanks



### Offset Links



### Clamp & Bracket Parts



### Clamp Housing



# VIBRATORY FINISHING

## CUSTOM PARTS & COMPONENTS

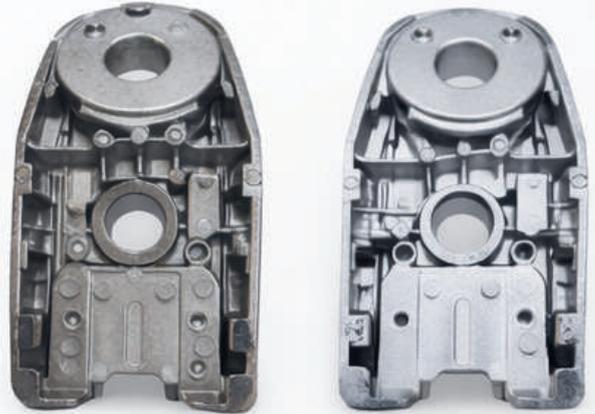
Achieve a smooth, uniform finish with our vibratory mass finishing solutions.

Surgical Instruments



Surgical Instruments

Precision Cast Components



Flatware



Machined Blocks



Flatware



Precision Hardware



Precision Machined Components

# VIBRATORY FINISHING

## CUSTOM PARTS & COMPONENTS

Achieve a smooth, uniform finish with our vibratory mass finishing solutions.



Rings & Gears



Bushings



Tools



Bearing Assemblies



Precision Machined  
Components



Fasteners & Wrenches

# VIBRATORY FINISHING

## CUSTOM PARTS & COMPONENTS

Achieve a smooth, uniform finish with our vibratory mass finishing solutions.



Blades

Casting & Forging



Brackets



Precision Machined  
Components



Bushings

# VIBRATORY FINISHING

## CUSTOM PARTS & COMPONENTS

Achieve a smooth, uniform finish with our vibratory mass finishing solutions.



Plates & Castings



Covers



Rods



Covers



Springs



Bowls & Trays

# VIBRATORY FINISHING

## CUSTOM PARTS & COMPONENTS

Achieve a smooth, uniform finish with our vibratory mass finishing solutions.



Clamps

Washers & Rings



Studs & T-Handles



Lever Handles



Chains



Hardware



Precision Components



Die Cast Parts



**Covers & Tubes**



**Flanges & Fittings**



**Rods & Fasteners**



**Turbo Housings**



**Machined Components**



**Cubic Parts & Inserts**



**Brass Plates & Caps**



**Custom Levers & Knobs**



**Turbo Housings**



**Flanges & Couplings**



**Specialty Components**



**Shafts & Gears**



# OUR ESTEEMED CLIENTS



HEROeco



An ISO-9001:2008 Company



satyam auto components pvt ltd





## India's Leading Manufacturer of Vibratory Finishing Equipment



**No Rough Edges**



**ISO 9001  
Certified**



**Advanced  
Technology**



**Custom  
Solutions**



**Reliable  
Performance**

### **GIMA Vibro Engineering Private Limited.**

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