

VIBRATORY SURFACE FINISHING



Machinery & Consumables

2025 Edition

About Us

We are a family-owned business that has been delivering exceptional service for nearly 50 years. Our expertise extends beyond supplying vibratory equipment, consumables, services and repairs; we believe in building long-term relationships with our customers by offering a range of comprehensive services.



Founder Brian Colwell had an idea and Sharmic Engineering was established in August as an unlimited company with a vision to provide innovative and cost-effective engineering solutions to a wide range of industries.

The origin of our company name, Sharmic, is no coincidence. Brian Colwell, the founder of the company, wanted to create a name that reflected his commitment to family values and the strong ties that bind. Combining the names of his two beloved daughters, Sharon, and Michelle, Shar-mic was born – a name that resonates with the essence of a family-run business.

In our purpose-built facility in Stourport-On-Severn, we have invested in state-of-the-art machinery and innovative technologies to maintain our competitive edge. This forward-thinking approach allows us to adapt to evolving industry demands and consistently deliver innovative solutions to our customers including providing for automotive, aerospace, or pharmaceutical industries, we strive for perfection in every aspect of our work



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COMPOUNDS

LIQUID COMPOUNDS



Liquid compounds typically dilute in the water used for finishing, creating a lubricating and cleaning emulsion. This emulsion interacts with the media and workpieces, influencing surface modification.

Deburring: Mild abrasives suspended in the liquid can remove light burrs and imperfections.

Corrosion Protection: Corrosion inhibitors within the compound form a protective film on metals, preventing rust and oxidation.

Neutralising: Similar to powders, acidic components can neutralise alkaline cleaning residues, prepping surfaces for further treatment.

Degreasing: Liquid detergents and surfactants effectively remove oils, greases, and other contaminants from the workpiece surface.

Descaling: Weak acids or chelating agents within the liquid can dissolve and remove light to moderate scale build-up on metals.

Polishing: Finer abrasives in the solution contribute to a smoother surface finish by removing minor scratches and imperfections.

Burnishing: Certain liquid compounds contain burnishing agents like metallic soaps that enhance the shine and reflectivity of metals like brass, copper, and silver.

Smoothering: Lubricating properties of the liquid help media glide over the workpiece, promoting a smoother finish on metals and plastics, especially with softer abrasives like pumice.

| SKU | MATERIALS | FUNCTION | VIBRATORY FINISHING PROCESS | | | | | | | | | | PH |
|----------------|-----------------------------------|------------------------|-----------------------------|-------------|--------|---------|----------|--------|---------|------------|-----------|------------|------|
| | | | FERRIUS | NON FERRIUS | DEBURR | DESCALE | DEGREASE | POLISH | BURNISH | PROTECTION | SMOOTHING | NEUTRALISE | |
| ALP37 | Universal | Ultrasonic Clean | ✓ | ✓ | | | ✓ | | | | | | 11 |
| SX-1L/Xi/2 | Universal | General Purpose | ✓ | ✓ | ✓ | | | ✓ | | ✓ | ✓ | | 10 |
| SX-3L | Bright Surfaces W/ Steel Media | Burnishing | ✓ | ✓ | | | | | ✓ | | | | 4.5 |
| SX-4L/2 | Aluminium/Brass/Zinc | Cleaning/Polishing | ✓ | ✓ | ✓ | | | ✓ | | | ✓ | | 7 |
| SX-5L | Steel | Cleaning/Polishing | ✓ | ✓ | ✓ | | | ✓ | | ✓ | ✓ | | 10.5 |
| NORCHEM 80 | Copper/Brass/Alum/S Steel | Polishing | | ✓ | | ✓ | | ✓ | ✓ | | | | 2 |
| NORCHEM 89 | Aluminium/Zinc | Cleaning/Polishing | | ✓ | | | | ✓ | | ✓ | ✓ | | 9 |
| NORCHEM 150 | Cast Iron/Steel | Cleaning/Polishing | ✓ | ✓ | | | | ✓ | ✓ | ✓ | ✓ | ✓ | 10.5 |
| NORCHEM HILITE | Pewter/Silver/Gold/Plastic/Rubber | Polishing | | ✓ | | | | ✓ | ✓ | | ✓ | | 9.5 |
| SX-9L | Stainless Steel | Polishing | | ✓ | | | | ✓ | ✓ | | | | 1 |
| SX-10L | Brass/Copper/Steel/Aluminium | Acidic Cleaning/Polish | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | | 1 |
| SX-12L | Reduces Excess Foam | Antifoam | ✓ | ✓ | | | | | | | | | 6 |
| SX-16L | Tin/Pewter/Silver | Polishing | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | | | 8.5 |
| SX-19L/S | Steel/Stainless Steel | H/D Degrease | ✓ | ✓ | | | ✓ | ✓ | | ✓ | | ✓ | 11 |
| SX-20L | Brass/Copper/Aluminium | Polishing | | ✓ | | | | ✓ | ✓ | | ✓ | | |
| SX-22L | Steel | Dewatering Oil | ✓ | | | | | | | ✓ | | | |
| SX-25L | Steel & Non Ferrous | Degreasing | ✓ | ✓ | | | ✓ | ✓ | | | ✓ | | 7.5 |
| SX-90L | Steel/Stainless Steel/Aluminium | Polishing | ✓ | ✓ | | | ✓ | ✓ | | | ✓ | | |
| RPP2 | Steel | Inhibitor | ✓ | | | | | | | ✓ | | | 11 |
| RP19L/S | Steel | Degrease/Inhibitor | ✓ | | | | ✓ | ✓ | | ✓ | | ✓ | 11 |

POWDERED COMPOUNDS

SX COMPOUND POWDERS: ACHIEVING THE FLAWLESS FINISHING

Vibratory finishing powder compounds are specially formulated to be mixed with water, media and added to a vibratory finishing machine. As the bowl vibrates, the media and compound mixture tumble against the workpieces, achieving various surface modifications.

Here's a breakdown of their key functions::

- **Deburring:** Coarse abrasive compounds effectively remove burrs and sharp edges left behind from machining or casting processes.
- **Corrosion Protection:** Compounds form a protective layer on metals like steel and aluminium, inhibiting rust and corrosion.
- **Neutralising:** Acidic compounds neutralise the effects of alkaline cleaning solutions used prior to finishing, ensuring optimal adhesion of subsequent coatings.
- **Degreasing:** Compounds effectively remove oils, greases, and other contaminants from the workpiece surface, preparing it for further processing.
- **Descaling:** Compounds dissolve and remove oxides and scales formed on metals during heat treatment or exposure to harsh environments.
- **Polishing:** Finer abrasive compounds remove minor scratches and imperfections, resulting in a smoother and more reflective surface.
- **Burnishing:** Compounds impart a high lustre and mirror-like finish to metals like brass, copper, and silver.
- **Smoothing:** Compounds gently remove surface irregularities and achieves smooth, matte finish on plastics and softer metals.



| SKU | MATERIALS | FUNCTION | FERRIUS | NON FERRIUS | DEBURR | DESCALE | DEGREASE | POLISH | BURNISH | PROTECTION | SMOOTHING | NEUTRALISE |
|---------|-----------------------------|---------------------|---------|-------------|--------|---------|----------|--------|---------|------------|-----------|------------|
| SX-11 | Steel/Stainless Steel/Brass | Grinding/Lapping | ✓ | ✓ | ✓ | | | | | ✓ | | |
| SX-21 | Copper/Brass | Fine Lapping | | ✓ | | ✓ | | | ✓ | | | |
| SX-25 | Steel/Stainless Steel/Iron | Polishing | ✓ | | | | | | | ✓ | | |
| SX-30 | Aluminium/Zinc | Light Deburr | | ✓ | | | | | | | | |
| SX-31 | Gold/Silver/Pewter | Light Deburr/Smooth | ✓ | ✓ | ✓ | | | | | ✓ | ✓ | |
| SX-32 | Zinc/Aluminium/Steel | Medium Abrasive | ✓ | | ✓ | | | | | ✓ | ✓ | |
| SX-33 | Diecasting/Steel/S Steel | Fine Lapping | ✓ | ✓ | ✓ | | | | | ✓ | ✓ | |
| SX-35/S | Universal | Pre-Plate/Anodising | ✓ | ✓ | ✓ | | | | | | ✓ | |
| SX-42 | Aluminium/Zinc | Degreasing | | ✓ | | | ✓ | | | | | ✓ |
| SX-43 | Steel/Stainless Steel | Strong Degrease | ✓ | | | | ✓ | | | ✓ | | |
| SX-45 | Pewter | Neutral Cleaner | | ✓ | | | | ✓ | | | ✓ | ✓ |
| SX-46 | Steel/Stainless Steel | Fine Lapping | ✓ | | | | | ✓ | ✓ | ✓ | ✓ | |
| SX-52 | Steel/Stainless Steel | Polishing | ✓ | | | | | ✓ | ✓ | | ✓ | |
| SX-60 | Silver/Tin/Pewter | Polishing | | ✓ | | | | ✓ | ✓ | | | |
| SX-62 | Stainless Steel/Aluminium | Polishing | | ✓ | | | | | ✓ | | | |
| SX-63 | Gold/Copper Alloy | Grinding/Lapping | | ✓ | | | | ✓ | ✓ | ✓ | | |
| SX-80 | Stainless Steel | Fine Lapping | | ✓ | | | | ✓ | ✓ | | | |
| SX-81 | Steel/Cast Iron | Polishing | ✓ | | | ✓ | | | | | | |
| PUMICE | Cast Resin Parts | Polishing | | ✓ | ✓ | | | ✓ | | | ✓ | |

PASTE COMPOUNDS

Choosing the right paste compound depends on your specific material, desired finish, and processing parameters. Why not ask for our recommendations for the optimal results.

Paste compounds are available for a variety of applications, including:

Steel and Stainless steel: **EUROPASTE 125** tackles them head-on with efficient material removal while protecting edges from unwanted rounding. It leaves behind a superior surface finish without excessive heat generation.

Steel, Brass and Copper: **EUROPASTE 150** Offers a fine lapping process, removing imperfections before polishing. It minimises dimensional changes, protects against tarnish and oxidation, and keeps the natural colours consistent.

For delicate components.

Metals, Plastics and Wood: **EUROPASTE 200** steps in with its gentle buffing action, once combined with maizorb produces a high polishing finish. Maizorb is biodegradable and offers a quieter environment, it's also cost-effective for large batches.

Plastics and Wood: **EUROPASTE 220** enhances surface smoothness for a delightful touch and removes imperfections like mould lines without dust clouds. And, it's gentle enough for even soft plastics.

Metals, Plastics and Wood: **WALNUT PASTE** utilises the power of natural walnut shells to polish various materials. It improves surface texture with a smooth, natural finish and boasts eco-friendly credentials.

| SKU | MATERIALS | FUNCTION | VIBRATORY FINISHING PROCESS | | | | | | | | | |
|---------------|-----------------------|-------------------------|-----------------------------|--------------|--------|---------|----------|--------|---------|------------|-----------|------------|
| | | | FERRIOUS | NON FERRIOUS | DEBURR | DESCALE | DEGREASE | POLISH | BURNISH | PROTECTION | SMOOTHING | NEUTRALISE |
| EUROPASTE 125 | Steel/Stainless Steel | Coarse Grinding/Lapping | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | |
| EUROPASTE 150 | Brass/Copper/Steel | Fine Lapping | | ✓ | | | | ✓ | | | ✓ | |
| EUROPASTE 200 | Metals/Plastic | Polishing | ✓ | ✓ | | | | ✓ | ✓ | | | |
| EUROPASTE 220 | Plastics/Wood | Polishing | | ✓ | | | | ✓ | | | | |
| WALNUT PASTE | Metals/Plastic/Wood | Polishing | ✓ | ✓ | | | | ✓ | ✓ | | | |



25KG CONTAINERS



CONSUMABLES

MAIZORB & WALNUT SHELL

MAIZORB: A SUSTAINABLE AND EFFICIENT DRYING SOLUTION

Maizorb, derived from natural corn cobs, is an eco-friendly and biodegradable drying media that offers exceptional performance. Its high absorbency ensures rapid and efficient moisture removal from various components, making it ideal for drying applications in industries like pharmaceuticals, electronics, and food processing.

Key Benefits of Maizorb:

- **Exceptional absorbency:** Maizorb can absorb up to four times its weight in moisture, ensuring quick and thorough drying.
- **Sustainable and biodegradable:** Derived from natural corn cobs, Maizorb is an environmentally friendly alternative to synthetic drying media.
- **Gentle and non-abrasive:** Maizorb's soft texture prevents damage to delicate components during the drying process.
- **Reusable and cost-effective:** Maizorb can be reused multiple times, making it a cost-effective drying solution.

| MAIZORB | PASS | RETAINED |
|------------------|--------|----------|
| GM 6 VERY COARSE | 5.00MM | 3.00MM |
| GM 12 COARSE | 2.00MM | 1.50MM |
| GM 16 MEDIUM | 1.50MM | 1.10MM |
| GM 20 FINE | 1.10MM | 0.75MM |
| GM 30 VERY FINE | 0.75MM | 0.60MM |

| WALNUT SHELL | PASS | RETAINED |
|------------------|--------|----------|
| GN 7 VERY COARSE | 4.50MM | 2.50MM |
| GN 8 VERY COARSE | 4.00MM | 2.50MM |
| GN 12 COARSE | 1.70MM | 1.30MM |
| GN 16 MEDIUM | 1.30MM | 0.80MM |
| GN 20 FINE | 1.00MM | 0.45MM |
| GN 30 VERY FINE | 0.80MM | 0.45MM |
| GN 80 VERY FINE | 0.45MM | 0.20MM |

WHY NOT ASK US ABOUT:

STEEL MEDIA
WOOD MEDIA
SHOT BLAST



CERAMIC MEDIA



Ceramic abrasive media is a hard and durable material used in vibratory finishing processes to deburr, polish, and descale parts. It comes in a variety of shapes, sizes, and cutting capabilities, making it suitable for a wide range of applications.

Ceramic abrasive media is available in a variety of shapes, including:





- **Cylinders:** Cylindrical shape is a popular shape of ceramic abrasive media. It is available in a variety of sizes and can be used for a variety of applications, including deburring, polishing, and radiusing.
- **Tristar:** Ceramic media is another common type of ceramic abrasive media. It is often used for deburring and polishing parts with complex geometries.
- **Ellipses:** Ellipse shaped media is the most common type of ceramic abrasive media. It is available in a variety of sizes and can be used for a variety of applications, including deburring, polishing, and radiusing.
- **Triangles:** Ceramic triangle chips are the most common shape available. It is often used for deburring and descaling parts with heavy contaminants.
- **Arrowheads:** Arrowhead ceramic media is a very aggressive form of ceramic abrasive media. It is often used for descaling parts with heavy rust or scale.



HARDNESS CHART

| ABRASIVE GRADE | ABRASIVENESS | COLOUR |
|----------------|---------------------|---------|
| BR | Super Cut | Brown |
| TC12 | Fast Cut | L/Brown |
| TC2 | Medium Cut | Grey |
| TC1 | General Purpose Cut | Grey |
| TC5 | General Purpose Cut | Grey |
| ASR | Fine Cut | Grey |
| TC9 | Ultrafine Cut | Pink |

MEDIA IS AVAILABLE IN 25KG AND FOR USE INSIDE OF MACHINERY

| | | CERAMIC MEDIA SIZE (MM) | | | | | | | | | |
|-------------|-------------------------------------------------------------------------------------|-------------------------|---|----|----|----|----|----|----|----|----|
| MEDIA SHAPE | SHAPE | 3 | 6 | 10 | 12 | 16 | 20 | 25 | 32 | 38 | 50 |
| TRIANGLE |  | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| CYLINDER |  | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| ELIPSES |  | | | ✓ | | | | ✓ | | | |
| TRI-STAR |  | | ✓ | ✓ | | | ✓ | | | | |



PLASTIC MEDIA

Plastic type abrasive media is a versatile material used in vibratory finishing processes to deburr, polish, and descale parts. It comes in a variety of shapes, sizes, and abrasive capabilities, making it suitable for use on a wide range of materials and applications.

Low Density Plastic Type Abrasive Media is available in a variety of shapes, including:

- **Cones:** Cone shaped media is a popular shape of plastic media. It is available in a variety of sizes and can be used for a variety of applications, including deburring, polishing, and radiusing.
- **Tetrahedron:** Plastic media is another common type of abrasive media. It is often used for deburring and polishing parts with complex geometries.
- **Triangles:** Triangular media offers a balance between aggressiveness and gentleness, making it suitable for a wide range of applications.
- **Bowties;** The unique shape effectively rounds off sharp edges and corners, creating a smooth transition between surfaces.
- **Paraboloids:** Paraboloid-shaped media is a specialised type of abrasive media used for precision polishing and finishing.
- **Tri-Star:** The shape provides a balance between aggressiveness and gentleness, making it suitable for a wide range of materials.



25KG BAGS

| HARDNESS CHART | ABRASIVE GRADE | ABRASIVENESS | COLOUR |
|----------------|----------------|---------------------------|-----------|
| | HI-CUT | Harsh - Rapid Removal | Black |
| | FC | Medium - Moderate Removal | Yellow |
| | UF | General Purpose | Pink |
| | PCH | General Purpose | D/Green |
| | PH | Fine - Light Removal | Green |
| | GP | Fine Finishing | D/Green |
| | PCX | Fine Finishing | Red |
| | P67 | General Purpose | Pink/Blue |
| | PH1 | Fine - Light Removal | Yellow |
| | PA | Fine Finishing | White |

| | | PLASTIC MEDIA SIZE (MM) | | | | | | | | | | | |
|--------------|-------|-------------------------|-------|----|----|-------|----|----|----|----|----|----|----|
| MEDIA SHAPE | SHAPE | 10 | 12/20 | 12 | 15 | 16/20 | 20 | 23 | 25 | 30 | 38 | 50 | 60 |
| CONES | | ✓ | | ✓ | ✓ | | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ |
| TETRAHEDRONS | | ✓ | | | ✓ | ✓ | | ✓ | | ✓ | ✓ | | ✓ |
| BOWTIES | | | ✓ | | | | | | | | | | |
| PARABOLOIDS | | | | | | | | | | ✓ | | ✓ | ✓ |
| TRI-STAR | | | | | | | | | ✓ | | | | |

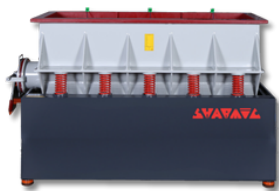
PORCELAIN MEDIA



Porcelain media is a non-abrasive material used in vibratory finishing processes to polish parts. It is made of dense, vitreous porcelain that is fired at high temperatures, making it hard and durable. Porcelain media is available in a variety of shapes, sizes, and densities, making it suitable for a wide range of polishing applications.

Low Density Plastic Type Abrasive Media is available in a variety of shapes, including:

- **Spheres:** Spherical porcelain media is a good choice for polishing parts with complex geometries. It is also a good choice for polishing parts that are prone to scratching, as the smooth, rounded edges of the media will not mark the surface of the part.
- **Cylinders:** Cylindrical porcelain media is a popular choice for polishing parts with smooth, even surfaces. It is available in a variety of sizes and can be used for a variety of applications, including polishing jewellery and metal components.
- **Ellipses:** Elliptical shaped media is a good choice for polishing parts with curved surfaces. It is available in a variety of sizes and can be used for a variety of applications, including polishing jewellery, metal components, and plastic parts.
- **Tri-stars:** Tri-Star porcelain media is a good choice for polishing parts with sharp edges. The sharp edges of the media will help to break down and remove burrs and other imperfections from the part.



VM TROUGH

HARDNESS CHART

| ABRASIVE GRADE | ABRASIVENESS | COLOUR |
|----------------|--------------------------|---------|
| TCX | Fine Finishing/Polishing | White |
| HD | Fine Finishing/Polishing | D/Brown |

| | | PORCELAIN MEDIA SIZE (MM) | | | | | | | |
|-------------|-------|---------------------------|---|---|---|----|----|----|----|
| MEDIA SHAPE | SHAPE | 3 | 4 | 5 | 6 | 10 | 12 | 16 | 20 |
| SPHERE | | ✓ | ✓ | ✓ | | | | | |
| TRI-STAR | | | | | ✓ | | | | |
| ELIPSES | | | | | | ✓ | | | |
| CYLINDER | | ✓ | ✓ | | ✓ | | | | |
| TRIANGLE | | ✓ | ✓ | | ✓ | | | ✓ | ✓ |

Note: Various lengths available for cylinder shape media.



VRX SERIES VIBRATORY SURFACE FINISHING MACHINES



HIGH PERFORMANCE



OUR PROMISE, NO EXTRA CHARGE, INCLUDED IN THE PRICE

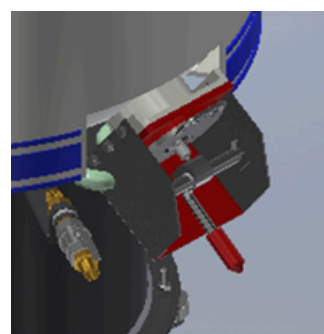
We thrive for success, which is why we insist on coming to you to train your staff, check the installation, and make sure that the processes are working correctly so you are achieving the desired and approved results. We would not offer you anything without approval.

- You will receive free pre-site visit and installation check.
- You will receive a free component assessment.
- We will develop a process which is then approved by you, which is tailored to your specific needs.
- You will learn how to use the machinery safely and efficiently.
- You will be able to ask questions and get personalised training from our experts.
- We will provide after sales consultancy and future project development support.
- We will provide machinery back up support from our experienced team of engineers.

We believe that our free promises are an essential part of our customer service. It is our way of showing you that we are committed to your success for the long run.

The VRX Series of machines outperform its competitors and is 10% more efficient than the previous VRM machines on the market.

| | VRX500 |
|-------------------------|--------|
| Amplitude | 4 |
| Working Angle | 60 |
| Cycle Time (sec.) | 28 |
| Tumble per Cycle (pcs.) | 4 |
| Motor Kw | 4 |
| Motor Speed (rpm) | 1500 |



OPTIONAL QUICK
RELEASE DISCHARGE



FREE ANTI-VIBRATION FEET

SELF SUFFICIENT

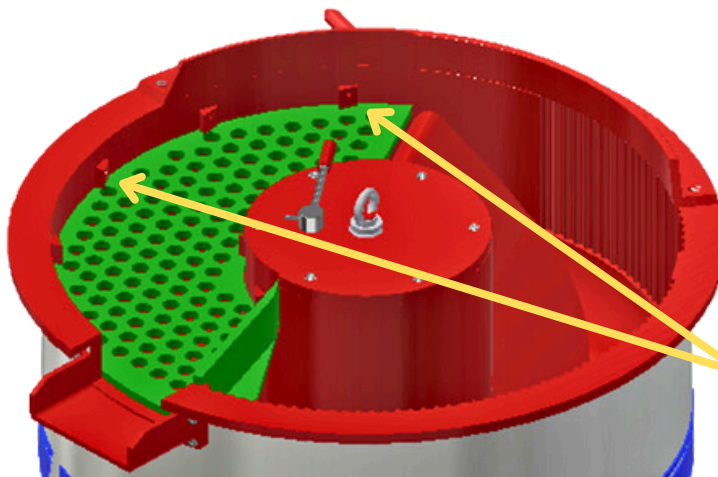


Automatic Lubrication Applications

Unlike our competitors the VRX Series have automatic lubrication cartridges that require replacement only once a year.

LONGER BEARING LIFE

Using less weight in our VRX Series machines extends bearing life by 30%, while achieving the required amplitude and kneading angle values for the process.



**QUICK AND EASY RELEASE FOR
EASE OF CHANGING SCREEN**

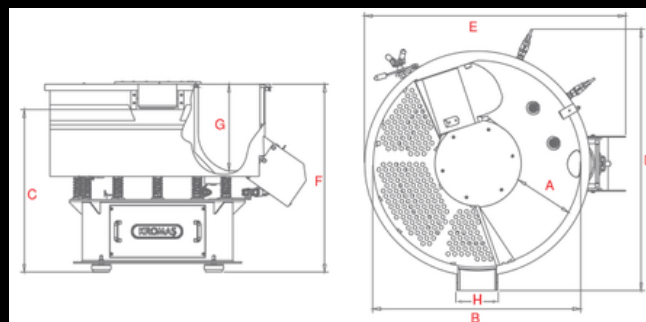
OPTIMUM BOWL DIMENSIONS



VRX Series machines have been optimised for channel width and depth, resulting in improved performance and efficiency.



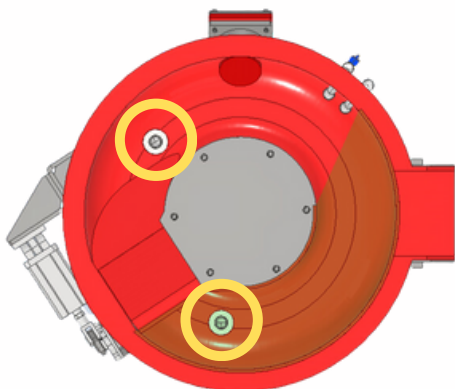
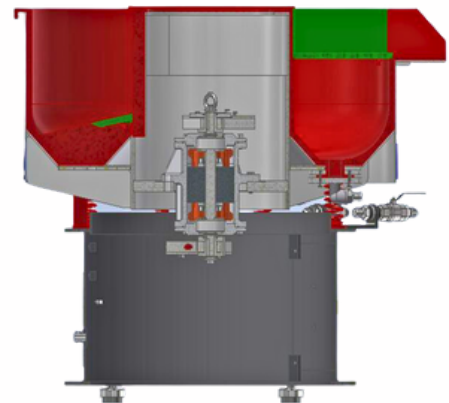
We use the best quality of the polyurethane materials from around the world.



| Machine Type | Chamber Width A | Total Width B | Unload Height C | Total Length D | Total Width E | Total Height F | Chamber Depth G | Unload Width H | Capacity L | PU Thickness | Steel Thickness | Weight Kg | Motor Cycle rpm | Motor Power kW |
|--------------|-----------------|---------------|-----------------|----------------|---------------|----------------|-----------------|----------------|------------|--------------|-----------------|-----------|-----------------|----------------|
| VRX125 | 202.5 | 790 | 840 | 1135 | 1160 | 970 | 328 | 215 | 118 | 20 | 5 | 350 | 1500 | 1.1 |
| VRX225 | 250 | 970 | 935 | 1310 | 1210 | 1080 | 430 | 250 | 228 | 20 | 5 | 465 | 1500 | 1.1 |
| VRX350 | 300 | 1130 | 1005 | 1470 | 1330 | 1155 | 425 | 300 | 309 | 20 | 5 | 600 | 1500 | 2.2 |
| VRX500 | 375 | 1365 | 1030 | 1720 | 1550 | 1200 | 520 | 380 | 570 | 20 | 5 | 790 | 1500 | 4 |
| VRX800 | 430 | 1520 | 1125 | 1805 | 1685 | 1295 | 580 | 380 | 836 | 20 | 6 | 1310 | 1500 | 11 |
| VRX1100 | 480 | 1640 | 1275 | 1910 | 1815 | 1470 | 665 | 420 | 1120 | 20 | 8 | 1550 | 1500 | 11 |
| VRX1500 | 550 | 1790 | 1300 | 2145 | 2010 | 1510 | 668 | 460 | 1396 | 20 | 8 | 2140 | 1500 | 15 |
| VRM2000 | 625 | 1975 | - | 2190 | 2182 | 1585 | 683 | - | 1700 | 20-30 | 10 | 2620 | 1500 | 15 |
| VM3200 | 834 | 2325 | - | 2520 | 2470 | 1510 | 610 | - | 2400 | 25-35 | 10 | 2900 | 1500 | 22 |

OPTIMUM MOTOR POSITIONS

The optimum placement of the motor relative to the center of gravity is a critical factor in machine performance. By carefully considering the relationship between these two points, the engineers have designed machines that are more efficient, productive, and reliable.



WATER DRAINAGE FILTERS

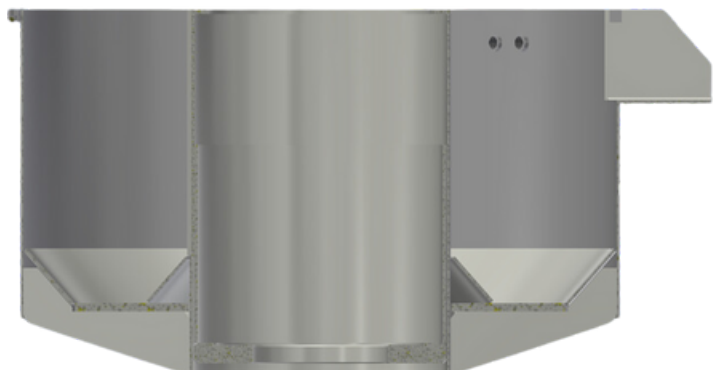
The VRX125 is the smallest machine in the VRX series, with a volume of 125 litres and two standard filters for quick process water drainage.



PNEUMATIC TECHNOLOGY

Optional pneumatic controlled auto unload ramps: The pneumatic controlled auto unload ramps are the most notable addition to the VRX Circular Vibratory Machine Range. This revolutionary feature streamlines the unloading process, eliminating the need for manual labour and minimising the risk of human error.

- Increased Performance
- Free Control Panel
- More Ergonomic
- Increased Spring Axis
- Quick Release Screen
- Optional Pneumatic Unload Ramp
- Cone Lower Bowl
- Unload Screen
- Twin Drain
- 10-15% More Efficient
- Increased Tumbles
- Decreased Lap Time
- Increased Vertical Amplitude
- Mould Improvement
- Free Optional Quick Discharge
- 12 Month Warranty/3500 Hour





SM SERIES CIRCULAR TYPE SURFACE FINISHING MACHINES



SHARMA.co.uk

VIBRATORY FINISHING

EXTENDED
BASE



The vibratory finishing machine is a versatile manufacturing process used to deburr, polish, burnish, descale, and hone a wide range of workpieces. It is a mass finishing process, meaning that it can process multiple parts simultaneously, making it ideal for high-volume production.

FEATURES

- EFFECTIVE MOTOR POSITION FOR SUPERIOR VIBRATION.
- HIGH TENSILE NUT BOLTS FOR LONGER MACHINE LIFE.
- EFFICIENT REMOVAL OF PROCESS FLUID FOR BEST SURFACE FINISH.
- ENERGY EFFICIENT MOTOR.
- BOWLS SHOT BLASTED BEFORE AND AFTER POLYURETHANE LINING FOR PAINTING.
- EXTENDED BASES FOR OPERATOR-FRIENDLY OPERATIONS.
- ANTI ROTATION MOTOR LOCKING PLATE PROVIDED.
- BOWLS ARE STRESS RELIEVED
- OPTIONAL REVERSE
- OPTIONAL CONTROL PANELS



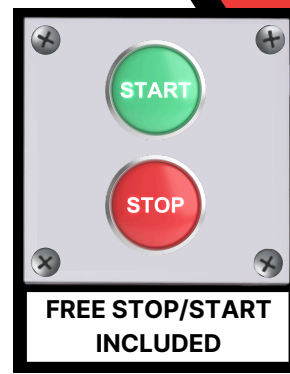
ADVANTAGES

- CAN HANDLE VERY SMALL TO LARGE PARTS. BATCH OR CONTINUOUS OPERATION.
- IN-PROCESS INSPECTION.
- INTEGRAL SEPARATION.
- BETTER MEDIA/PARTS MIXING SINCE IT HAS CASCADE AND CIRCULAR ACTION.
- ECONOMICAL FOR GENERAL PURPOSE WORK, HEAVY DEBURRING AND CONTINUOUS INSPECTION.



THE SPECIFICATIONS

MACHINE WITHOUT SEPARATION (MANUAL UNLOAD)



| Models | Total Volume (ltrs) | Media Capacity (kg) | O.D. (mm) | Bowl 'U' Width (mm) | Motor (hp) |
|--------|---------------------|---------------------|-----------|---------------------|------------|
| SM1 | 30 | 25-35 | 615 | 205 | 1 |
| SM2 | 60 | 30-60 | 710 | 230 | 1 |
| SM3 | 90 | 90-110 | 855 | 255 | 1 |
| SM4 | 120 | 120-150 | 1020 | 265 | 1.5 |
| SM10 | 300 | 300-350 | 1350 | 345 | 2/2.4 |
| SM20 | 600 | 600-700 | 1605 | 430 | 5/6.7 |
| SM40 | 1200 | 1200-1400 | 2010 | 530 | 10 |

SEPARATION SCREEN (AUTO UNLOAD) AVAILABLE

OUR PROMISE, NO EXTRA CHARGE, INCLUDED IN THE PRICE.

We thrive for success, which is why we insist on coming to you to train your staff, check the installation, and make sure that the processes are working correctly so you are achieving the desired and approved results. We would not offer you anything without approval.

- You will receive free pre-site visit and installation check.
- You will receive a free component assessment.
- We will develop a process which is then approved by you, which is tailored to your specific needs.
- You will learn how to use the machinery safely and efficiently.
- You will be able to ask questions and get personalised training from our experts.
- We will provide after sales consultancy and future project development support.
- We will provide machinery back up support from our experienced team of engineers.

We believe that our free promises are an essential part of our customer service. It is our way of showing you that we are committed to your success for the long run.



VM TROUGH VIBRATORY SURFACE FINISHING MACHINES



HIGH PERFORMANCE

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Through vibratory surface finishing machines are ideal for the surface finishing of heavy, large, long or sensitive parts in terms of unlimited application possibilities.



HEAVY DUTY SPRINGS



ANTI-VIBRATION FEET



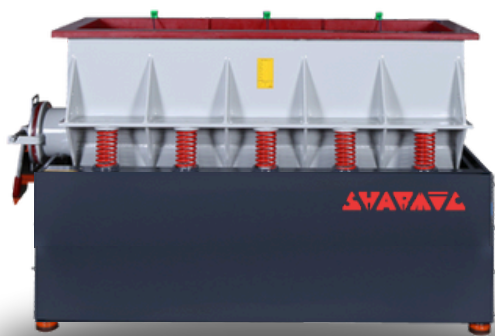
QUICK RELEASE DISCHARGE

MAKE LIFE EASIER

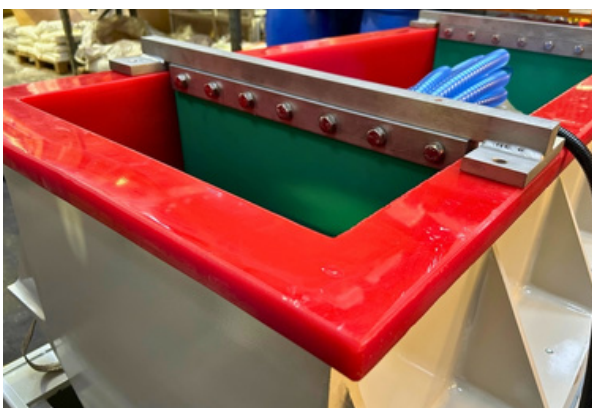
Trough type finishing machines are produced in standard sizes from 19 litres up to 2200 litres and dimensionally will allow parts up to 2000mm long to be processed

They can be employed with plastic or ceramic medias for standard finishing and porcelain for polishing. There are also versions available for use with stainless steel media for burnishing.

The trough type machines can also be supplied with dividers, thus allowing parts to be processed singularly to avoid damage or to accommodate multistage finishing with different medias.



FIXED SEPARATORS



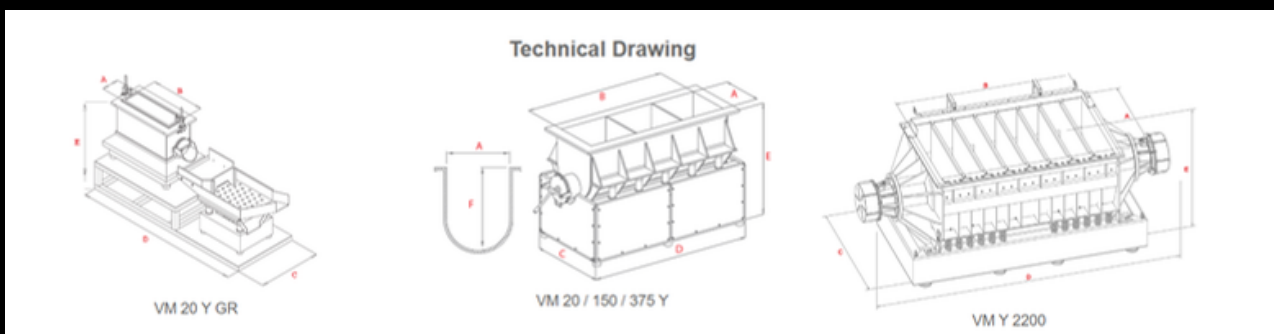
THE PROCESS BOWL CAN BE ADJUSTED OR DIVIDED INTO INDEPENDENT SECTIONS WITH FIXED SEPARATORS. THIS FEATURE IS VERY USEFUL WHEN SENSITIVE PARTS ARE DESIRED TO BE TREATED WITHOUT TOUCHING EACH OTHER OR WHEN A DIFFERENT PROCESS MATERIAL IS USED FOR A SEPARATE PROCESS IN EACH SECTION.

OPTIMUM DIMENSIONS



Drive motors are mounted under the machine, directly under the process bowl. In addition, larger capacity machines have two synchronous drive motors mounted on the sides of the bowl. Motors and weights are combined with unique vibration-absorbing couplings.

| Machine Type | A mm | B mm | C mm | D mm | E mm | F mm | Capacity L. | PU Thickness mm | Weight Kg. | Motor Cycle rpm. | Motor Power kW. |
|--------------|------|------|------|------|------|------|-------------|-----------------|------------|------------------|-----------------|
| VM20Y | 170 | 530 | 425 | 710 | 540 | 235 | 20 | 15 | 125 | 1500 | 0.75 |
| VM20 Y GR | 170 | 530 | 600 | 1600 | 782 | 235 | 20 | 15 | 200 | 1500 | 0.75 |
| VM35Y | 220 | 590 | 360 | 635 | 620 | 305 | 35 | 15 | 160 | 3000 | 0.65 |
| VM70Y | 300 | 750 | 430 | 795 | 670 | 356 | 70 | 20 | 355 | 3000 | 2 |
| VM150Y | 365 | 870 | 715 | 1200 | 1070 | 490 | 150 | 20 | 496 | 1500 | 1,1/1,5 |
| VM375 Y | 500 | 1500 | 1190 | 1800 | 1120 | 570 | 375 | 20 | 1270 | 1500 | 4/6 |
| VMY2200 | 1100 | 2200 | 1320 | 3900 | 1685 | 967 | 2200 | 25-35 | 4310 | 1500 | 15x2 |
| VMY2200 L | 1300 | 2200 | 1520 | 3900 | 1685 | 967 | 2500 | 25-35 | 4525 | 1500 | 15x2 |
| VMY2400 | 1510 | 1600 | 1900 | 3242 | 2090 | 1370 | 2400 | 25-50 | 4545 | 1500 | 15x2 |





ACOUSTIC NOISE COVERS

- REDUCE ACOUSTIC NOISE LEVELS
- AVAILABLE IN ECO AND PREMIUM VERSIONS
- CUSTOM BUILT
- HEAVY DUTY
- SOUND PROOFING
- PNEUMATIC OR MANUAL CONTROL AVAILABLE
- FREE STANDING OR ATTACHED
- IMPROVE EMPLOYEE HEALTH
- REDUCE EMPLOYEE ABSENTEEISM





SINGLE PHASE TUMBLING SURFACE FINISHING MACHINES



VIBRATORY FINISHING MACHINES



The VA series of vibratory finishing machines from Sharmic Engineering is ideal for small batches of small components. These machines are available in three sizes: VA25, VA40, and VA75. The VA25 and VA40 machines are ball burnishing models, while the VA75 machine is a standard model.

All VA series machines come complete with an outlet and lid. The VA**/SS model for the VA25, VA40 and VA75 machines also includes a discharge door. The VA**/TD model for the VA40 and VA75 machines includes a tilting device for the bowl.



SINGLE PHASE

PROCESSES:

- Radiusing
- Deburring
- Degreasing
- Descaling
- Polishing
- Protection
- Smoothing
- Cleaning

INDUSTRIES:

- Automotive
- Aerospace
- Medical
- Jewellery
- Electronics
- Plastics
- Defence
- Additive Manufacturing

BENEFITS:

- Batch Processing
- Reduced Labour Costs
- Versatility
- Uniformity
- Precise Control
- Reduced Processing Time
- 1.4L - 21L Capacity
- From The USA

EASY UNLOAD AVAILABLE



| Model | Diameter (Inches) | Bowl Width (Inches) | Bowl Depth (Inches) | Capacity (Litre) |
|-------|-------------------|---------------------|---------------------|------------------|
| TV5 | 8 | 4 | 3.75 | 1.4 |
| TV10 | 10 | 3.5 | 5 | 2.8 |
| VA18 | 12 | 4 | 4.25 | 5.06 |
| VA25 | 14 | 3.5 | 5.75 | 6.15 |
| VA40 | 17 | 4.25 | 7 | 9.8 |
| VA75 | 21 | 7 | 9.5 | 21 |

The image shows three barrel surface finishing machines, which are oval-shaped with a light grey body and a red rim. Each machine has a blue strap with a metal buckle. The machines are arranged in a row, with the middle one slightly behind the other two. The background is black.

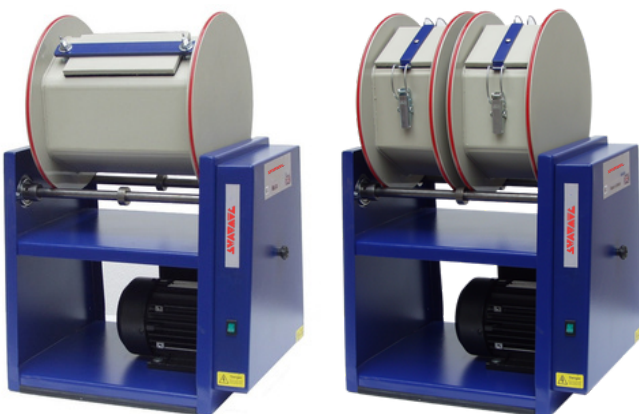
ROTA SERIES BARREL SURFACE FINISHING MACHINES

HEAVY DUTY

MADE IN GREAT BRITAIN



Barrel burnishing, or tumbling, is a proven and cost-effective technique for finishing small components to a high standard. By combining water with abrasives or polishes, barrel burnishing can significantly improve the surface finish of components. Simply changing the media allows barrel burnishing to be used for a variety of tasks, such as removing surface blemishes, smoothing sharp edges, and polishing surfaces. This process is effective on a wide range of materials, including soft and hard metals, ceramics, and plastics.



MIX & MATCH
3LITRE AND 6LITRE CAPACITY

- MADE FROM POLYPROPYLENE
- NEW POWER TRANSMISSION SYSTEM
- QUICK RELEASE LID
- MIX BETWEEN 3L AND 6L BARRELS
- CHOOSE FROM 3L UP TO 18L CAPACITY
- MADE IN BRITAIN
- USED FOR GRINDING
- USED FOR POLISHING
- USED FOR DEBURRING
- PROCESS METALS
- PROCESS PLASTICS
- PROCESS WOOD

THE SPECIFICATIONS



WE'RE COMMITTED TO GETTING IT RIGHT EVERY SINGLE TIME, THAT'S WHY WE ASK FOR SAMPLE PARTS TO APPROVE A PROCESS WE KNOW WORKS SO THAT WE CAN GET YOUR APPROVAL AND SUGGEST THE BEST EQUIPMENT TO GET YOU GOING, FREE OF CHARGE.

ROTABARREL 6 LITRE model, part no 4484E, Size 40 x 30 x 57 cm high 18Kg, 1.9A, 220/240 volts ac.

Supplied with 1 x 6 litre barrel body as standard.

ROTABARREL 2 x 3 LITRE model, part no 4502D, Size 40 x 30 x 57 cm high 18Kg, 1.9A, 220/240 volts ac.

Supplied with 2 x 3 litre barrel body as standard.

ROTABARREL 12 LITRE model, part no 3486D, Size 65 x 30 x 57 cm high 22Kg, 2.1A, 220/240 volts ac.

Supplied with 2 x 6 litre barrel bodies as standard.

ROTABARREL 18 LITRE model, part no 3485D, Size 94 x 30 x 57 cm high 26Kg, 2.4A, 220/240 volts ac.

Supplied with 3 x 6 litre barrel bodies as standard.

VARIABLE SPEED MOTORS ARE AVAILABLE WITH INVERTER CONTROL (RECOMMENDED FOR DELICATE ARTICLES)





SM SERIES CENTRIFUGAL FINISHING MACHINES

CENTRIFUGAL SURFACE FINISHING

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WET & DRY

PROCESSES:

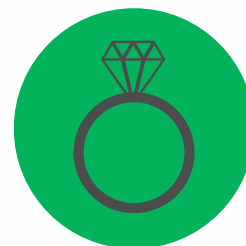
- Radiusing
- Deburring
- Degreasing
- Burnishing
- Descaling
- Polishing
- Protection
- Smoothing
- Superfinishing

INDUSTRIES:

- Automotive
- Aerospace
- Medical
- Jewellery
- Electronics
- Plastics
- Optics
- Defence
- Additive Manufacturing

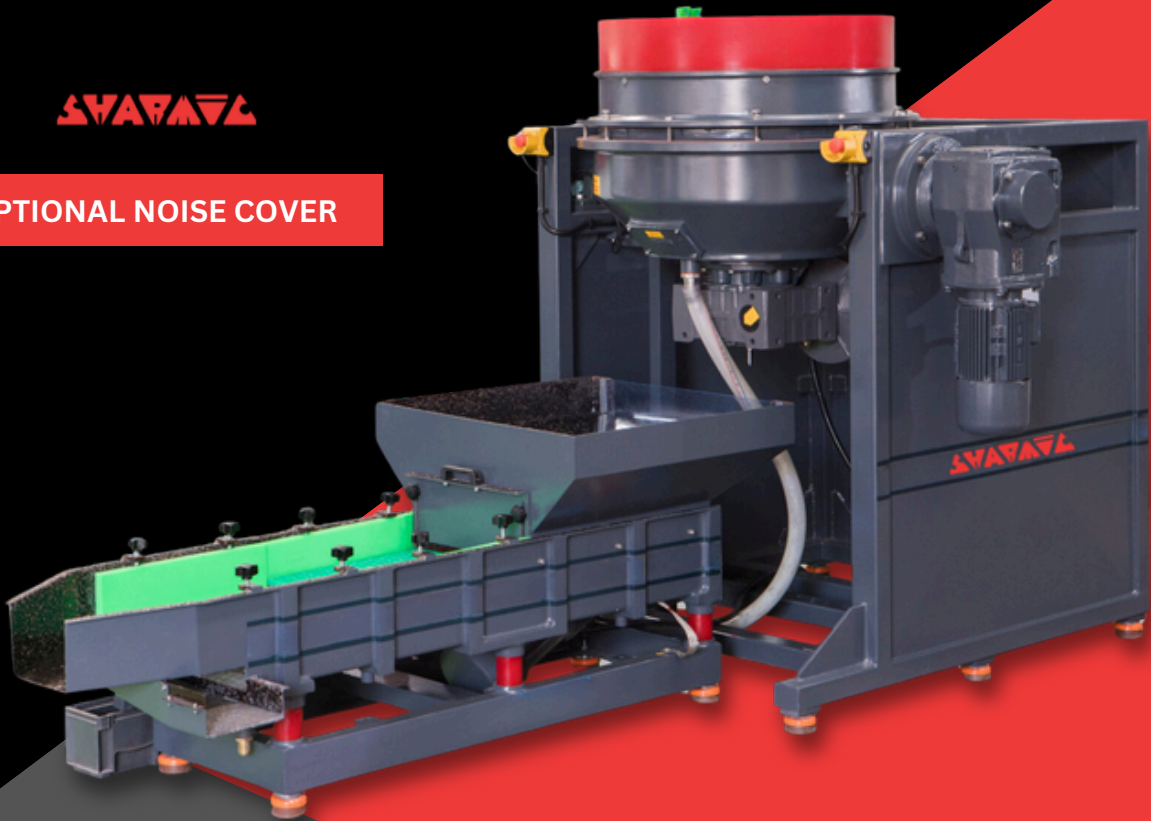
BENEFITS:

- High-Energy Process
- Batch Processing
- Reduced Labour Costs
- Versatility
- Uniformity
- Precise Control
- Reduced Processing Time
- Reduced Water/Compound
- Variable Speed





OPTIONAL NOISE COVER



Take your Finish to the Next Level

Automatic Unload Capability:

01

10 times faster processing time.

02

Rotary base and the process chamber walls are fixed.

03

Easily transferred from the chamber to the vibratory separator.

04

Automatic feedback systems and the next process starts.

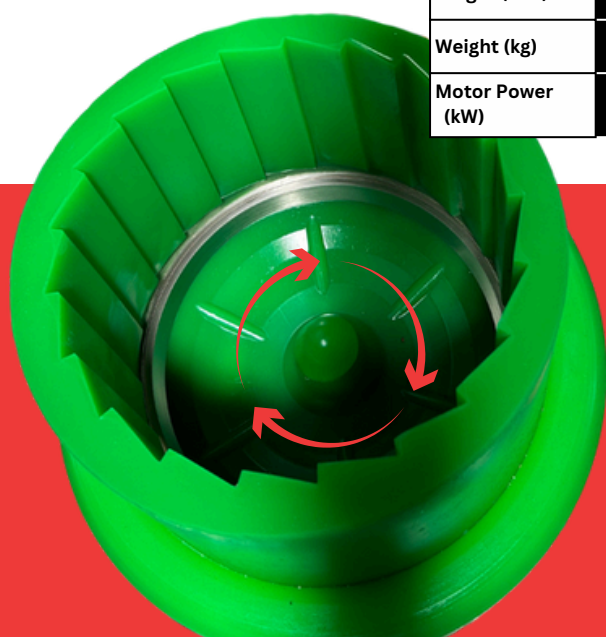
ENHANCED PRODUCTIVITY



The SM Series machines feature a unique rotary base process chamber and fixed chamber walls. After each cycle, the entire chamber tilts to an angle of 140 degrees, effortlessly transferring the processed material to the VE series vibratory separator. This innovative design eliminates cumbersome manual handling, maximising productivity and minimising downtime.



| Machine Type | SM7 | SM14 | SM14 (twin) | SM14 (trebble) | SM20 | SM50 | SM100 | SM200 |
|-----------------------------|------|------|-------------|----------------|------|------|-------|-------|
| Capacity (L) | 7 | 14 | 2 x 14 | 3 x 14 | 20 | 50 | 100 | 200 |
| Polyurethane Thickness (mm) | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Process Area Width (mm) | 210 | 280 | 2 x 280 | 3 x 280 | 300 | 425 | 585 | 720 |
| Length (mm) | 605 | 665 | 665 | 665 | 745 | 1105 | 1350 | 1700 |
| Width (mm) | 425 | 465 | 930 | 1395 | 525 | 950 | 1380 | 1655 |
| Height (mm) | 1210 | 1260 | 1260 | 1260 | 1310 | 1530 | 1460 | 1935 |
| Weight (kg) | 65 | 100 | 200 | 300 | 100 | 303 | 790 | 970 |
| Motor Power (kW) | 0,37 | 1,1 | 2 x 1,1 | 3 x 1,1 | 0,75 | 3 | 4 | 10 |



Our machines harness the power of centrifugal force to deliver exceptional results, outperforming traditional vibratory surface finishing techniques by a remarkable ten times faster processing time.

FOR A FREE ANALYSIS

Sharmic Engineering, Baldwin Road, Stourport-On-Severn,
Worcestershire, DY13 9AX



ROTARY BARREL SURFACE FINISHING MACHINES

CENTRIFUGAL TILTING TUMBLERS

OUR PROMISE, NO EXTRA CHARGE, INCLUDED IN THE PRICE.

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Tilting Rotary Barrels work on a cascading action as opposed to toroidal action of a vibratory finishing machine. These machines are ideal for flat, delicate and small components. The cascading action allows the component to tumble more gently, thus reducing the risk of component damage. As optional extras they can have variable speed control and single speed drive for ease of unloading components when tilted.



120L & 330L
CAPACITY

PROCESSES:

- Radiusing
- Deburring
- Degreasing
- Descaling
- Polishing
- Protection
- Smoothing
- Superfinishing
- Cleaning

INDUSTRIES:

- Automotive
- Aerospace
- Medical
- Jewellery
- Electronics
- Plastics
- Optics
- Defence
- Additive Manufacturing

BENEFITS:

- High-Energy Process
- Batch Processing
- Reduced Labour Costs
- Versatility
- Uniformity
- Precise Control
- Reduced Processing Time
- Less Material Waste
- Variable Speed

For separation of components from media an external vibrating separation service can be considered such as the VE50/VE75.

ENHANCED PRODUCTIVITY



MEDIA

- **Fast and efficient:** Tilting tumblers with centrifugal systems can produce high-quality finishes quickly and efficiently.
- **Even treatment:** The motorised overturning system ensures that all parts are evenly treated.
- **High precision:** Tilting tumblers with centrifugal systems can be used to achieve a high degree of precision in the finishing process.
- **Versatile:** Tilting tumblers with centrifugal systems can be used for a variety of metal and plastic finishing operations.

- **Deburring:** Remove burrs and other sharp edges from metal and plastic parts.
- **Polishing:** Produce a smooth and shiny finish on metal and plastic parts.
- **Cleaning:** Remove dirt, grease, and other contaminants from metal and plastic parts.



| | 120L | 330L |
|------------|-----------------|------------------|
| Power | 660W | 1119W |
| Voltage | 400 V | 400 V |
| Frequency | 50 / 60 Hz | 50 / 60 Hz |
| Dimensions | 1400x740x1250mm | 1650x1120x1580mm |
| Weight | 350kg | 500kg |

FOR A FREE ANALYSIS

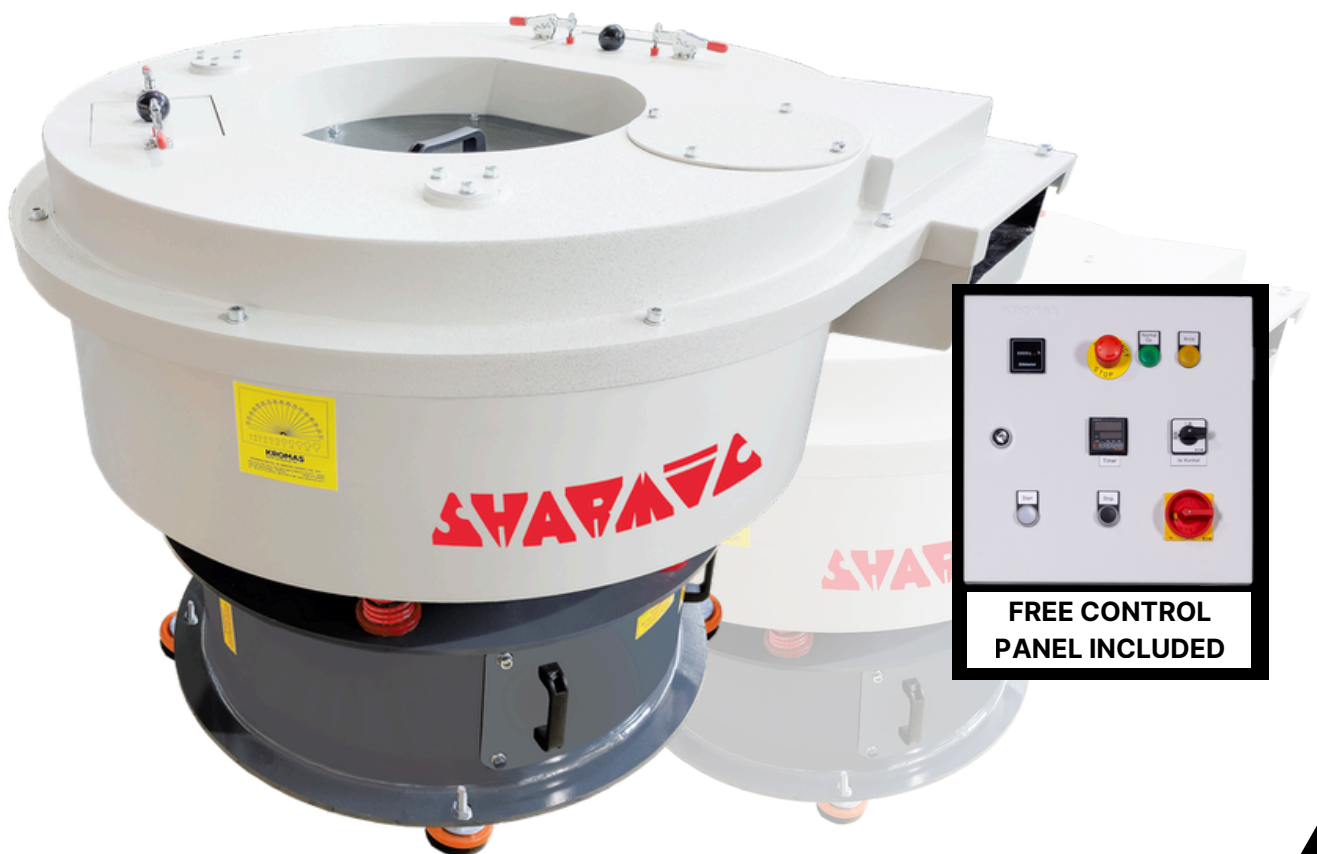
Sharmic Engineering, Baldwin Road, Stourport-On-Severn,
Worcestershire, DY13 9AX



VRK SERIES CIRCULAR VIBRATORY DRYING MACHINES

DRYING TECHNOLOGY

Vibratory dryers use natural granular media to dry parts after the surface finishing process. Round vibratory dryers are continuously loaded with wet parts and preheated granules (maizorb). The granules absorb all the moisture from the parts, which are then automatically sifted and discharged from the machine as 100% dry.



SELF SUFFICIENT



Automatic Lubrication Applications

Unlike our competitors the VRX Series have automatic lubrication cartridges that require replacement only once a year.

The optimum placement of the motor relative to the centre of gravity is a critical factor in machine performance. By carefully considering the relationship between these two points, the engineers have designed machines that are more efficient, productive, and reliable.

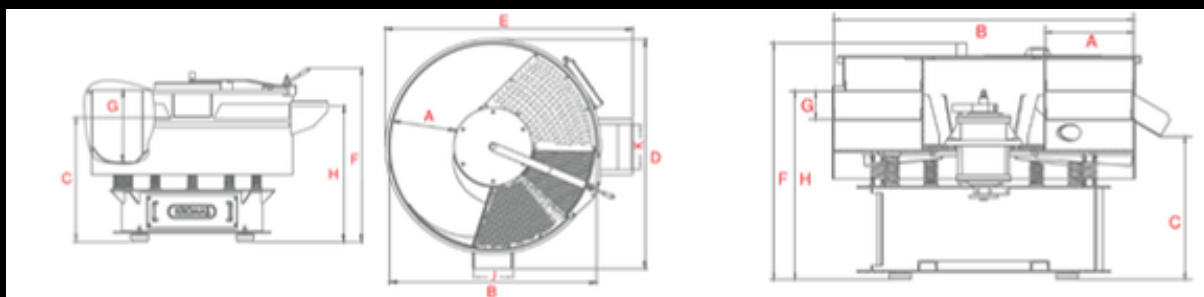


LONGER BEARING LIFE

Using less weight in our VRK Series extends bearing life by 30%, while achieving the required amplitude and kneading angle values for the process.

OPTIMUM BOWL DIMENSIONS

VRK Series machines have been optimised for channel width and depth, resulting in improved performance and efficiency.



WE USE THE BEST QUALITY OF THE POLYURETHANE MATERIALS FROM AROUND THE WORLD.

| Machine Input Height | | | VRK125 K | VRK225 K | VRK350 K | VRK500 K | VRK800 K | VRK1100 K | | |
|----------------------|-------|---|----------|----------|----------|----------|----------|-----------|----------------------|---|
| Capacity | Litre | | 125 | 225 | 350 | 500 | 800 | 1100 | | |
| PU Thickness | mm | | PU SPRAY | PU SPRAY | PU SPRAY | PU SPRAY | PU SPRAY | PU SPRAY | | |
| Steel Thickness | mm | | 5 | 5 | 5 | 5 | 6 | 6 | | |
| Process Area Width | mm | A | 255 | 295 | 345 | 380 | 450 | 490 | Process Area Width | A |
| Inner Diameter | mm | B | 990 | 1130 | 1290 | 1510 | 1750 | 1890 | Inner Diameter | B |
| Discharge Height | mm | C | 751 | 851 | 931 | 1005 | 1161 | 1261 | Discharge Height | C |
| Width | mm | D | 1125 | 1220 | 1400 | 1620 | 1865 | 2002 | Width | D |
| Length | mm | E | 1230 | 1395 | 1585 | 1800 | 2055 | 2205 | Length | E |
| Height | mm | F | 860 | 970 | 1080 | 1170 | 1370 | 1470 | Height | F |
| Process Area Height | mm | G | 335 | 409 | 474 | 534 | 632 | 672 | Process Area Height | G |
| Machine Input Height | mm | H | 835 | 945 | 1020 | 1050 | 1205 | 1305 | Machine Input Height | H |
| Outlet Chute | mm | J | 275 | 320 | 385 | 420 | 495 | 565 | Outlet Chute | J |
| Inlet Chute | mm | K | 300 | 350 | 370 | 440 | 500 | 600 | Inlet Chute | K |
| Weight | Kg | | 385 | 500 | 675 | 902 | 1540 | 1910 | | |
| Motor Cycle | rpm | | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | | |
| Motor Power | kW | | 1.1 | 2.2 | 2.2 | 4 | 4/6 | 4/6 | | |
| Heater Power | kW | | 1.8 | 3 | 4 | 4.5 | 6 | 6 | | |



PNEUMATIC TECHNOLOGY

Optional pneumatic controlled auto unload: The pneumatic controlled auto unload is the most notable addition to the VRK Circular Vibratory Machine Range. This revolutionary feature streamlines the unloading process, eliminating the need for manual labour and minimising the risk of human error.

- Increased Performance
- More Ergonomic
- Free Control Panel
- Increased Spring Axis
- Optional Pneumatic Unload
- Unload Screen
- 10-15% More Efficient
- Increased Tumbles
- Decreased Lap Time
- Increased Vertical Amplitude
- 2 Years Warranty/3500 Hour

SHARMIC
SHARMIC ENGINEERING LIMITED
SURFACE FINISHING EQUIPMENT & CONSUMABLES



CENTRIFUGAL DRYING & DEGREASING MACHINES

CENTRIFUGAL DRYING & DEGREASING



OUR PROMISE, NO EXTRA CHARGE, INCLUDED IN THE PRICE.

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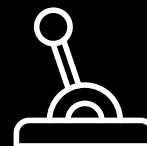
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Our tilting centrifugal dryers are ideal for drying metal and plastic articles that are not excessively delicate and do not require pickling or polishing. They are robust yet easy to use, with innovative features such as a lever-operated unloading and tilting system. The fixed basket is made of drilled AISI 304 stainless steels with a hole diameter of 2 mm (0.9 mm available on request). The control panel features a cycle timer, centrifugation switch, and heating switch.



COMPONENTS SPIN
DRY WITH FORCED
WARM AIR.



UNLOADING AND
TILTING ACTION
THROUGH A LEVER.



DRY METAL AND
PLASTIC

DRYING & DEGREASING

FIXED BASKET



SK25

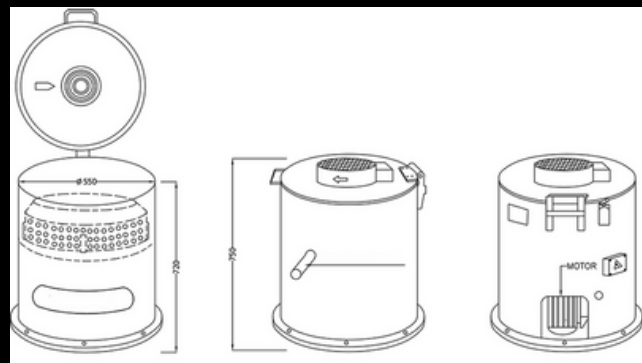
INDUSTRIES:

- Automotive
- Aerospace
- Medical
- Jewellery
- Electronics
- Plastics
- Optics
- Defence
- Additive Manufacturing



BENEFITS:

- High-Energy Process
- Control Panel
- Cycle Timer
- Centrifugation Switch
- Batch Processing
- Reduced Labour Costs
- Heating Switch
- Precise Control
- Reduced Processing Time



| | SK25 Y | SK50 Y | SK25 K | SK50 K |
|----------------------------|--------|--------|--------|--------|
| Capacity (kg) | 33 | 46 | 33 | 46 |
| Basket Inner Diameter (mm) | 420 | 470 | 420 | 470 |
| Width (mm) | 645 | 710 | 645 | 710 |
| Length (mm) | 750 | 835 | 750 | 835 |
| Height (mm) | 685 | 835 | 765 | 835 |
| Centrifugal Cycle (RPM) | 600 | 600 | 500 | 500 |
| Motor Power (kW) | 0,55 | 0,55 | 0,55 | 0,55 |
| Motor Cycle at 50 Hz (RPM) | 1500 | 1500 | 1500 | 1500 |
| Heating Power (kW) | - | - | 2 | 2 |
| Total Power (kW) | 0,55 | 0,55 | 2,55 | 2,55 |
| Weight | 133 | 150 | 138 | 155 |

| | ASC 50/LR | ASC 70/LR |
|---------------------------------|-----------|-----------|
| Internal basket Dimensions (mm) | 25 | 50 |
| Theoretical Volume (litres) | 415 | 445 |
| Capacity (kg) | 200 | 200 |
| RPM | 360 | 370 |
| Heating Elements (W) | 645 | 710 |
| Motor Power (W) | 650 | 720 |
| Total Installed Power (W) | 920 | 985 |
| Overall Dimensions (mm) | 140 | 160 |
| Unloading Opening (mm) | 1500 | 1500 |
| Weight (kg) | 480 | 480 |



ASC 50/LR

IF YOU ARE LOOKING FOR A RELIABLE AND EFFICIENT WAY TO DRY METAL AND PLASTIC COMPONENTS, OUR TILTING CENTRIFUGAL DRYERS ARE THE PERFECT SOLUTION FOR YOU.

AUTOMATIC MULTI-PURPOSE VIBRATING MACHINE FINISH PRO (ALL-IN-ONE)

AUTOMATIC MULTI-PURPOSE FINISH PRO (ALL-IN-ONE)

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The Automatic Multi-Purpose Vibrating Machine Finish Pro (all-in-one) from Sharmic Engineering is a revolutionary machine that can perform all routine finishing operations on small metal parts, including greasing, deburring, polishing, and drying, consecutively or alternatively in fully automatic mode.

PROCESSES:

- Radiusing
- Deburring
- Degreasing
- Descaling
- Polishing
- Protection
- Smoothing
- Superfinishing
- Cleaning

INDUSTRIES:

- Automotive
- Aerospace
- Medical
- Jewellery
- Electronics
- Plastics
- Optics
- Defence
- Additive Manufacturing

BENEFITS:

- High-Energy Process
- Batch Processing
- Reduced Labour Costs
- Versatility
- Uniformity
- Precise Control
- Reduced Processing Time
- Less Material Waste
- Variable Speed

ENHANCED PRODUCTIVITY

- Single workstation for all routine finishing operations.
- Fully automatic mode.
- Hot air-drying system for even drying of complex details.
- Can be used on its own, in line with other manufacturing machines, or as a modular, multi-unit finishing plant.



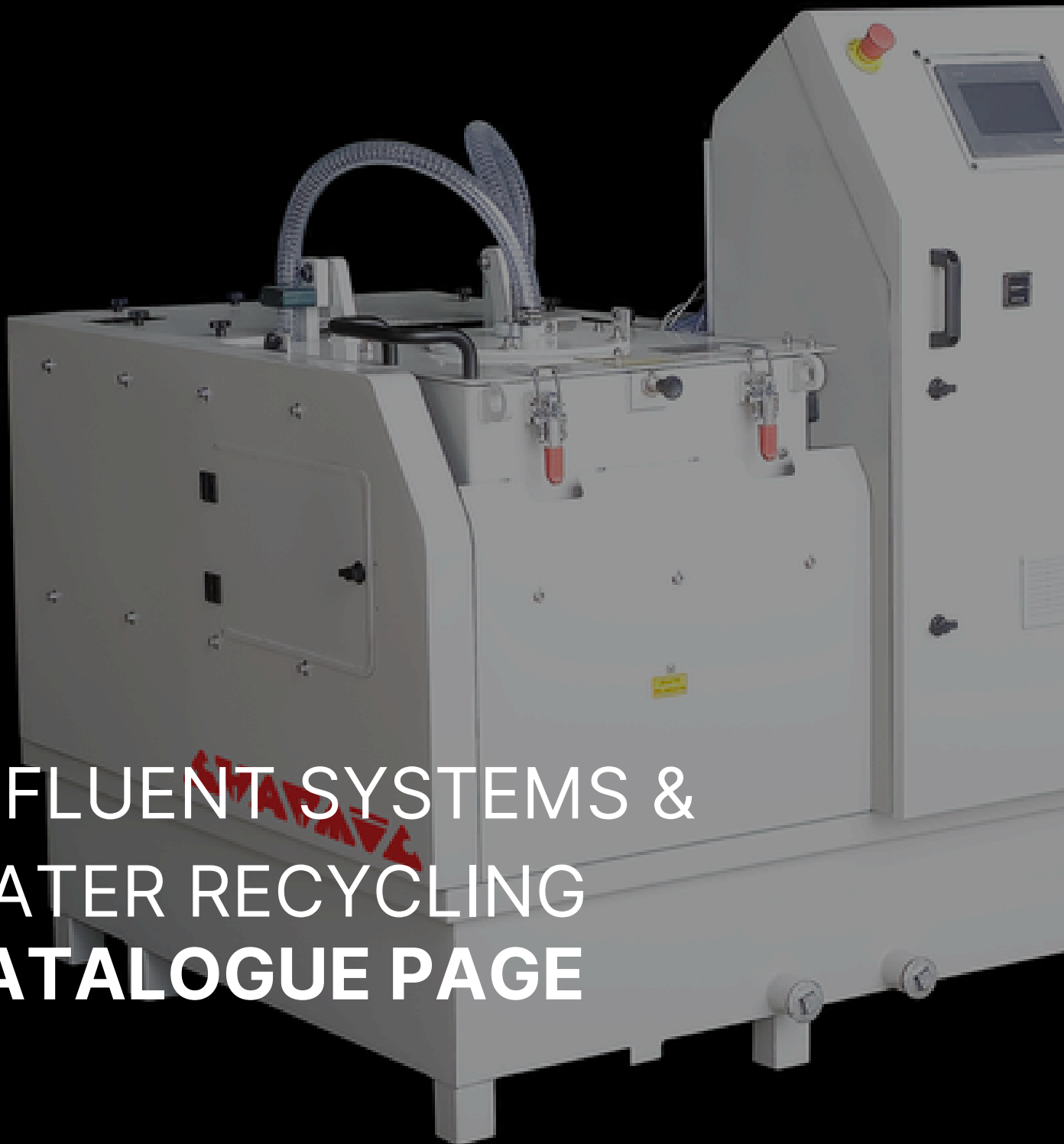
How it works:

The Finish Pro (all-in-one) machine is especially designed for part on part processing where there is no need for media, as the surface finish is achieved by the action of the components working against each other in the machine. They can perform processes such as Deburring, Edge Breaking, Cleaning, Degreasing, Polishing and Hot Air Drying in one unit. Components are loaded into the bowl chamber where water and chemical compounds are added to the working chamber via a PLC control unit. The machine performs the process cycle with automatic rinsing, drying in the same chamber before discharged. The machine is capable of a standalone unit or larger system.

| | Capacity dm3 | Engine Kw | Dimensions mm |
|-------------|--------------|-----------|---------------|
| A/F PRO 10 | 10 | 0,35 | 490x800x120 |
| A/F PRO 40 | 38 | 0,55 | 670x800x160 |
| A/F PRO 60 | 60 | 0,73 | 930x900x225 |
| A/F PRO 150 | 150 | 1,5 | 1140x1000x270 |
| A/F PRO 270 | 270 | 2,5 | 1380x1100x320 |
| A/F PRO 380 | 380 | 3,5 | 1560x1250x360 |

**START TO
FINISH IN ONE
MACHINE**





EFFLUENT SYSTEMS & WATER RECYCLING CATALOGUE PAGE

PROCESS WATER RECYCLING SYSTEMS

Paper band filters are a type of filtration system that is specifically designed to remove contaminants from the effluent discharged from vibratory finishing machines. They are manufactured in various sizes to suit a corresponding discharge rate, and they can be made from either carbon or stainless steel.

BENEFITS:

Water treatment offers a number of benefits, including:

- Excellent filtration efficiency: Paper band filters can remove contaminants down to an exceptionally fine level, typically 10-50 microns.
- Continuous filtration: Paper band filters can operate continuously without the need for manual intervention.
- Compact design: Paper band filters are relatively compact, which makes them ideal for use in tight spaces.
- Durable construction: Paper band filters are made from high-quality materials, making them durable and reliable.



Filter Rolls

Available in a variety of micron ratings, including 10, 20, 45, and 50 microns.



| Model LMP | PBMF/ PBF 50 | PBMF/ PBF 65 | PBMF/ PBF 100 | PBMF/ PBF 150 | PBMF/ PBF 200 | PBMF/ PBF 300 | PBMF/ PBF 400 |
|-----------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|
| Length | 1300 | 1400 | 1800 | 1800 | 2200 | 2500 | 2200 |
| Width | 550 | 800 | 800 | 1000 | 1000 | 1100 | 1500 |

WATER TREATMENT



How it works

Process Water Recycling systems enable the treatment and reuse of wastewater generated in the process from single machine to multiple lines with different capacities. With high-speed centrifuge and gradual treatment, wastewater is purified from particles and unwanted substances and recycled to the system.

Water treatment machines are used in a variety of industries, including:

- **Metalworking:** Paper band filters are used to remove metal chips and other contaminants from the effluent discharged from grinding machines and other metalworking equipment.
- **Plastics:** Paper band filters are used to remove plastic shavings and other contaminants from the effluent discharged from injection moulding machines and other plastics processing equipment.
- **Foundry:** Paper band filters are used to remove sand and other contaminants from the effluent discharged from casting machines and other foundry equipment.

These systems allow the filtered water to be reused, which can help to reduce water consumption and wastewater treatment costs.

Benefits:

- Significant reduction in water consumption
- Reduced chemical usage.
- Environmental protection by preventing pollution.
- Recycling of valuable ores when processing precious stones, gold, or jewellery
- The system works in neutral waters (pH between 6.5-9.5).

| | ARS25 B0 | ARS25 B60 | ARS25 MN500 | ARS25 MN1000 | ARS140 B1000 |
|----------------------------------|-------------|-------------|---------------|----------------|----------------|
| Capacity (Ltr/Hr) | 300 | 300 | 300 | 300 | 300 |
| Clean Water Tank Capacity (L) | - | 30 | 270 | 556 | 482 |
| Waste Water Tank Capacity (L) | - | 30 | 135 | 260 | 338 |
| Total Tank Capacity (L) | - | 120 | 405 | 816 | 820 |
| Sludge Container Capacity (KG) | 2,5 | 2,5 | 2,5 | 2,5 | 22 |
| Max. Clean Outlet Pressure (BAR) | 0,5 | 0,5 | 0,5 | 0,5 | 0,3 |
| Seperation Factor (G) | 1800 | 1800 | 1800 | 1800 | 2010 |
| Centrifugal Speed (RPM) | 4100 | 4100 | 4100 | 4100 | 2750 |
| Motor Power (kW) | 1,5 | 1,5 | 1,5 | 1,5 | 5,5 |
| Total Power (kW) | 1,5 | 2 | 1,5 | 1,5 | 5,5 |
| Measurements (MM) | 702x413x780 | 680x800x800 | 1560x760x1392 | 2060x1080x1392 | 2120x1275x1695 |
| Total Weight (KG) | 115 | 160 | 290 | 335 | 335 |
| Control Unit | SemiAuto | SemiAuto | SemiAuto | SemiAuto | SemiAuto |
| Chemical Dosing | - | Optional | Standard | Standard | Standard |
| Filtering | Centrifugal | Centrifugal | Centrifugal | Centrifugal | Centrifugal |
| Defoaming | Optional | Optional | Optional | Optional | Optional |
| Water Recycling Rate (%) | 95 | 95 | 95 | 95 | 95 |

MAGNETIC FINISHING MACHINES CATALOGUE PAGE



MAGNETIC FINISHING

The Sharmic Magnetic Finishing Machine utilises innovative magnetic field technology to move steel media rapidly, providing superior performance for deburring, polishing, descaling, and cleaning of nonferrous parts.

The process combines steel media, workpieces, and liquid compounds in a container placed on the machine. A powerful magnetic field is generated, which moves the magnetic steel pin media across the parts, delivering precise and effective results.

- Excellent for deburring and edge chamfering.
- Ideal for irregularly shaped parts, internal holes, and complex geometries.
- No deformation or surface damage.
- Maintains high accuracy of parts.
- Long-lasting steel media for extended use.
- Simple and user-friendly operation.
- Short processing times ranging from 5 to 15 minutes.
- Efficient in accessing difficult areas such as recesses, slots, and blind holes.

| Model | Steel Pins Capacity (KG) | M/C Size |
|---------|--------------------------|------------------|
| MFM 830 | 3 | 425 × 550 × 1050 |
| MFM 840 | 5 | 525 × 650 × 1050 |
| MFM 850 | 8 | 660 × 800 × 1200 |



CONTACT US FOR A FREE ANALYSIS

**Sharmic Engineering, Baldwin Road, Stourport-On-Severn,
Worcestershire, DY13 9AX**

DRAG FINISHING MACHINERY CATALOGUE PAGE



DRAG FINISHING MACHINERY

Our drag finishing machine is a high-energy surface finishing machine used to precisely grind, deburr, and polish a variety of delicate and complex workpieces. It secures components onto spindles that are then dragged through a media-filled chamber, ensuring controlled and consistent abrasion for an even finish without part-on-part contact. This makes it ideal for industries like aerospace, jewellery, medical, and automotive, offering benefits such as improved edge preparation, smoother surfaces, and enhanced performance of critical components.



SPECIAL FEATURES

Our Drag Finishing Machines are meticulously engineered to provide consistent, high-quality results:

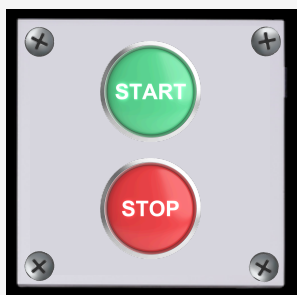
- Individual Spindle Control: Imagine orchestrating the movement of each part independently.
- Programmable Processing Parameters: Take command of the finishing process with precise digital controls.
- Automated Media Handling Systems: Say goodbye to manual media management.
- Variable Speed Drives: Achieve the perfect touch, from aggressive material removal to delicate polishing.
- Adjustable Immersion Depth: Precisely control the interaction between the workpiece and the media.
- Integrated Compound Dosing Systems: Enhance the finishing process with automated liquid compound delivery.
- Quick Change Tooling: Minimize downtime and maximize productivity with user-friendly quick-change spindle and fixture systems.
- Robust and Durable Construction: Built to withstand demanding industrial environments.

ASSOCIATED PRODUCTS



ACOUSTIC NOISE COVERS

- REDUCE ACOUSTIC NOISE LEVELS
- AVAILABLE IN ECO AND PREMIUM VERSIONS
- CUSTOM BUILT
- HEAVY DUTY
- SOUND PROOFING
- PNEUMATIC OR MANUAL CONTROL AVAILABLE
- FREE STANDING OR ATTACHED
- IMPROVE EMPLOYEE HEALTH
- REDUCE EMPLOYEE ABSENTEEISM



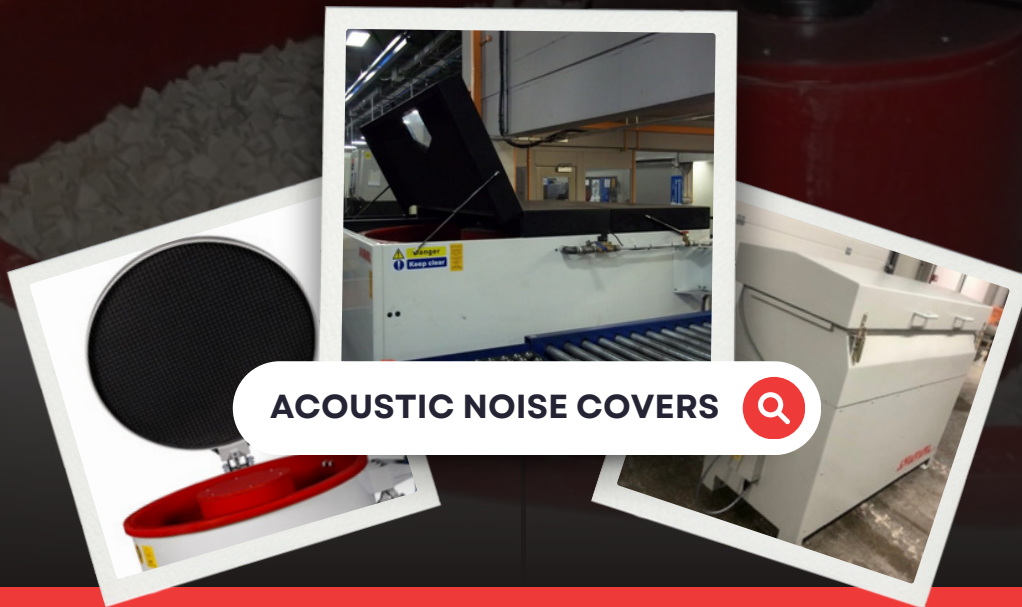
CONTROL PANELS

- BASIC ON/OFF SWITCHES
- OPTIONAL TIMERS
- OPTIONAL AUTOMATIC CONTROLS
- OPTIONAL LIGHT DISPLAY
- OPTIONAL REVERSE
- OPTIONAL SPEED CONTROL
- OPTIONAL WATER CONTROL
- OPTIONAL PLC CONTROL
- EMERGENCY STOP



IS YOUR WORKSHOP TOO NOISY?

Our acoustic noise covers are designed to combat noise pollution. They can be free standing or attached to the machine, they are mainly used to absorb and reduce the noise by a considerable factor.



ACOUSTIC NOISE COVERS



Improving Employee Health

Noise pollution can cause a number of health problems, including hearing loss, tinnitus, stress, and high blood pressure. By reducing noise pollution, employers can help to improve the health of their employees.

Reduced Employee Absenteeism

Noise pollution can make it difficult to concentrate and can lead to fatigue. By reducing noise pollution, employers can help to reduce employee absenteeism and improve productivity.

WE CAN CUSTOM BUILD TO YOUR REQUIREMENTS.



LIQUID COMPOUND DOSING UNITS



- ANALOGIC SOLENOID DRIVEN DOSING PUMP
- CONSTANT FLOW RATE (FLOW RATE IN %)
- 3 DIFFERENT SELECTABLE PERFORMANCE SETUP
- WALL MOUNTING BRACKET SUPPLIED WITH INSTALLATION KIT
- POWER SUPPLY 100÷240VAC - 50/60HZ
- IP65 PROTECTION DEGREE
- STROKES FREQUENCY PERCENTAGE SETTING
- FLOW RATE SETTING FROM 0-100% OR FROM 0-20%
- REINFORCED PP HOUSING, SUITABLE FOR AGGRESSIVE WORKING
- FREE COMMISSIONING

WASTE WATER TRANSFER PUMP

- 600 WATT, 230V MOTOR
- 195LTR/MIN MAX FLOW RATE
- MAX HEAD HEIGHT 9M
- PUMP OUTLET 1½" BSP
- PUMPS AS LOW AS 3MM FROM THE FLOOR
- 10M LONG POWER CABLE
- COMPLETE WITH 1" AND ¾" MULTI-STEP HOSE ADAPTER
- TOUGH DURABLE BUILD
- SUITABLE FOR CLEAN WATER APPLICATIONS
- EN 60335-2-4:2003+A2:2010, EN 60335-1:2012+A11:2014



FILTRATION WEIR TANK



- REMOVE THE SILT CONTAMINANTS
- UNWANTED WASTE WATER DISCHARGED
- 1.5MM THICK GALVANISED STEEL
- DRAIN PLUG & BUNG COME AS STANDARD
- ROLL TOP FOR STRENGTH & STABILITY
- 915MM LENGTH - 163LTR CAPACITY
- 1220MM LENGTH - 218LTR CAPACITY
- 457MM WIDTH
- 405MM DEEP
- BSEN ISO 1461



