

#### we redefine

# Accessories for Surface Finishing Machines



Each of our accessories is simple to operate, highly efficient and has been designed to complement ActOn's vibratory, centrifugal high energy and centrifugal disc finishing machines.

#### we redefine:

- Vibratory Finishing
- High Energy Finishing
- Shot Blasting

- Consumables
- Precision Polishing
- Subcontract Services

# Why Choose Us?

We're a family run business that pride ourselves on working as a strong, unified team of specialists.

#### We believe in British

Born in the United Kingdom, we are unique in our product design and the manufacture of our specialist machines and consumables.

#### We're here for you

Being based in the heart of the country means we have easy access to all of our clients.

#### We have experience

With five decades of experience and knowledge in the finishing industry, we know what works for you.



#### We provide options

We have an impressive range of media and compounds to choose from, including one of the best polishing compounds in the market. We also provide a wide range of machinery and subcontract services to meet all of your needs.

#### We go the extra mile

We'll tailor our services to your needs, not the other way round. Our service is all about you.

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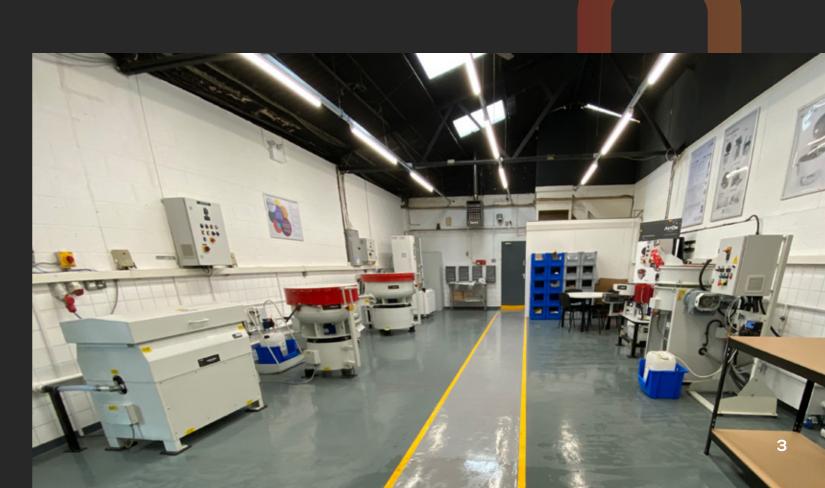
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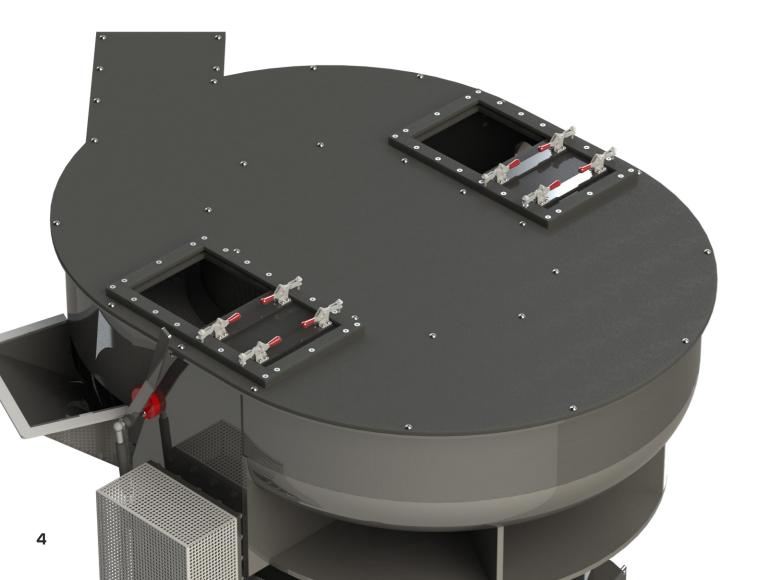


#### **Accessories**

Each of our accessories is simple to operate, highly efficient and has been designed to complement ActOn's vibratory and centrifugal high energy finishing machines.

#### **Key Benefits:**

- British high-quality product
- Durable products due to design, good quality materials and workmanship knowledge
- Easy to operate
- Low maintenance
- Can be easily integrated with ActOn's automated systems





# Optimise the Surface Finishing Process with ActOn Accessories

Surface finishing technology, such as Vibratory Finishing machines or Centrifugal High Energy machines, will reduce processing times and will enable you to produce a repeatable and quality finished product, in comparison with manual finishing. However, a finishing system that is poorly optimised can affect your production output targets and can increase operational costs and cost per part. This applies for new and refurbished surface finishing systems. None the less there are ways to optimise your surface finishing system through mass finishing accessories and minimum operator intervention, such as:

- Installing a dosing unit to reduce compound and water wastage & save costs.
- Use a control system to ensure process control and repeatabile results.
- Save time by replacing manually loading of components/ media with parts/ consumables conveyors, hoppers and feeders.
- Choose a separation system to separate parts from media with minimum operator intervention.
- Use divider plates to process delicate parts and avoid impingements and component scraping.
- Save time by collecting the finished parts using a components' collection system.
- Use a waste water treatment system to facilitate recycling & reduce processing costs.

Contact us to <u>get a quote</u> today!

#### **Accessories for Vibratory Finishing Machines**

#### **Dosing Unit**

The diaphragm dosing pump controls the liquid compound flow rate dosed into the bowl machine. The pump is usually wired through to the start button of vibratory machines. Once set, the pump gives accurate control of the liquid compound usage, thereby reducing wastage, saving costs. providing a consistent finish, extending the media life and keeping the work bowl of the machine clean.

- The system is capable of dosing all types of
- ActOn's liquid compounds into machines.
- Floor-mounted or wall-mounted dosing units are available.
- Floor-mounted unit can hold 2 x 25kg of compound containers.
- Floor-mounted dosing unit dimensions in mm / inch (H x L x W): 920 x 630 x 480 / 36.2 x 24.8 x 18.8.
- Wall-mounted dosing unit dimensions in mm / inch (L x W x H):
   600 x 500 x 250 / 23.6 x 19.6 x 9.8.
- For bench-mounted series, a 240 volt dosing pump is available.









#### **Control Panel**

Standard control panels include isolator, on / off controls and timer. Control panels can be customised to have:

- Light and sound indicators
- Speed controls
- Direction controls
- Door, lid and flap controls

For more complex processes, ActOn machines can be supplied with PLC and HMI controls. These offer the option to set recipes and maintenance schedules, or to fully control a complex vibratory finishing system.

# ActOn Finishing Ltd | sales@acton-finishing.co.uk | www.acton-finishing.co.uk Separation System Integrated Separation System

Upon completion of the process, the separation flap is engaged manually or pneumatically, allowing vibrations to move the parts over a separation screen. Reversing the rotational direction of the motor ensures the contents in the process chamber move in the opposite direction, thus clearing the ramp area. This allows the separation flap to engage into position without trapping any parts or media. It ensures no parts are left in the process chamber.

Contact us to get a quote today!





The Magnetic Separation System has been designed to offer full control of process with minimum reliance on the operator. This accessory has been designed to complement the Bowl M Series machine. For separation of components from media, an overband electro-magnetic separator is used.

The process of separation and demagnetisation is automated, giving the required control of process. The machines are designed with a higher ramp, allowing smaller parts to be separated magnetically. As an example, parts can be magnetically separated from an M series machine and fed into a VBD machine.



#### Portable Media Screening Unit

Over a period of time media starts to wear, which can cause the undersized media to lodge in holes, slots, bores and blind holes of components. This can result in damaging the geometry of the part.

To avoid these risks, we have designed the Portable Media Screening Unit to enable our customers to separate the undersized media by moving the screening unit near the mass finishing machine or underneath the finishing machine door. Media can then be unloaded via the machine door and fed into the Portable Media Screening Unit to be separated via the screen.



- Allows to separate the media straight from the finishing machine.
- It screens 25kg of media every 90 seconds.
- Approx. unit dimensions in mm / inch (L x W x H): 1794 x 833 x 1135 / 71 x 33 x 45
- Max. motor power: 0.31 kW, 3 phase, 50 Hz.
- Time efficient using this system our clients have managed to reduce the down time by 3 hours, depending on the media condition.
- Easy to move around as it is mounted on castor wheels.

Undersized media can also be separated by:

- Discharging the undersized media through a specially designed door which is placed at the bottom of the bowl. Media is discharged while the finishing machine is running.
- Through the separation system by having an undersized media grid incorporated within the separation system.





#### **Vibratory Separation System**

The Vibratory Separation System is a standalone unit. It includes a large separation screen and has its independent drive system. Upon completion of the process, parts and media are slowly fed into the vibratory system and are separated via the screen.

This accessory is recommended for equipment where there is no other separation system included, such as trough machines and P Series bowls.

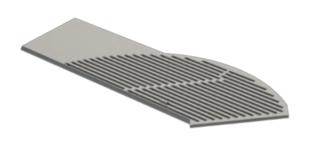
- If components are flat, water jets can be connected to ensure all parts are discharged.
- The vibratory separation system can easily be integrated into a fully automated finishing system.
- The separation screens are made out of polypropylene and the sizes of holes & slots can be manufactured depending on the geometry of the part being processed and the type of media used.
- An undersized media separation system can also be incorporated.

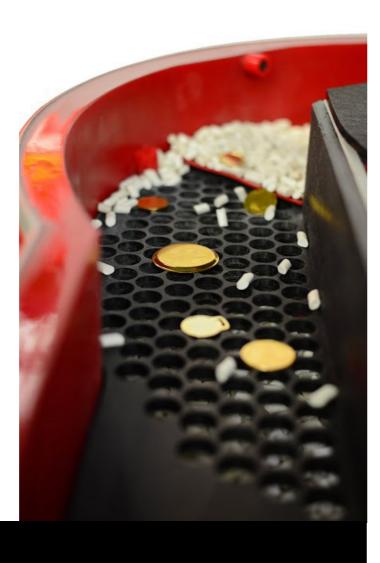




#### **Separation Screens**

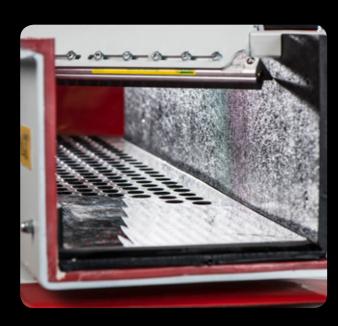
Our standard separation screens are made out of polypropylene and the sizes of holes, slots or other patterns can be manufactured depending on the geometry of the part being processed and the type of media used. The separation screen is mounted by wedges which makes it vibration resistant and easily interchangeable. For heavier parts, we have reinforced screens that are designed to be more durable for heavy duty applications. When media is larger than the parts, inverse separation can be used. This is where the parts fall through the separation screen as these are smaller than the media being used.

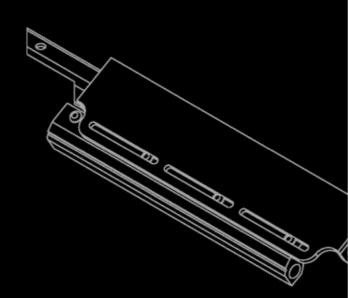




#### Air Knife

Air knife can be integrated with the activation of the unload system flap on the vibratory machine. This system ensures 100% separation as any media that might be carried over on the separation screen is blown back by the air knife. Alternatively, a brush option can be provided.





#### **Dewatering Screens**

The dewatering screens are used to spray water or compounds once the parts have been processed and discharged from the machine. This is used for cleaning any residue after the process, and to protect it from the environment.

To comply with local Water Authority regulations, the liquid compound and water are dosed separately to the vibratory equipment via a dual feed system, eliminating the need for expensive header tanks to be fitted.

#### **Compound Mixing Tank**

Specially designed tank for mixing of powder compounds or special compounds such as Chemcut. The tank has an agitator to ensure contents are thoroughly mixed and a pump attached so it can be dosed directly into the machine. A float switch can be incorporated to ensure that when the tank level is low, the operator is alerted by a visual or sound indicator. Standard tanks are manufactured of a suitable grade of plastic. The controls of the tank can be combined with the main control of the finishing machine or the tank can have an individual control panel.

#### **Dust Extractor for Maize Dust Application**

ActOn Dust Extractor is a self-contained collector built for collecting the fine dust resulting from the process carried out in the VBD Series dryers and Dual machines. The Dust Extractor is easy and quick to install.

- Compact design.
- Minimises floor space and fits in virtually any plant layout.
- Available in a standard version or with explosion relief system.
- Quiet & efficient operation and easy to maintain.
- 0 Fan assembly.
- 0 Outlet grill to suit fan.
- 0 Acoustic diffuser
- Power supply direct on line
- Main Voltage 400VAC, 3Ø, 50Hz; 0.75 Cu. Ft. / 21 Litres Bin Unit
- Standard series approx. dimensions in mm / inch (L x W x H): 447 x 573 x 1540 / 17.5 x 22.5 x 60.6
- Dust extractor with explosion relief approx. dimensions in mm / inch (L x W x H): 1114 x 447 x 4200 / 43.8 x 17.5 x 165.3





#### **Acoustic Lid**

The acoustic lid designed by ActOn ensures our machines are very quiet in operation; therefore no special noise deadening enclosure is required. The noise level depends on different factors such as the size of the machine, size and type of components and media used in the process, and the vibratory force generated by the drive system. The ActOn acoustic lid has been built using special technology, which helps reduce the noise level by 57% in comparison with a machine in process without an acoustic lid.

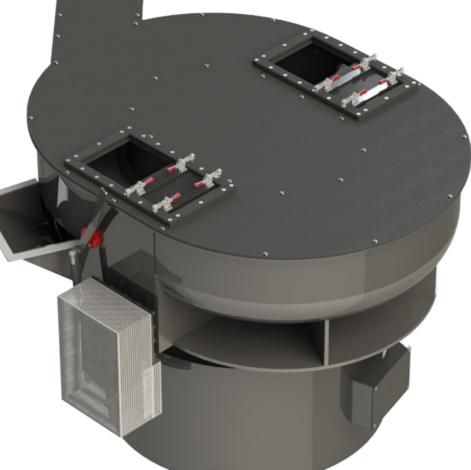




For special processes where foam is required to achieve the component finish, an acoustic lid is recommended to avoid splashing of water, compound and foam. The acoustic lid can be manually or pneumatically operated.



Special lids can be made out of Perspex or polypropylene with access hatches.



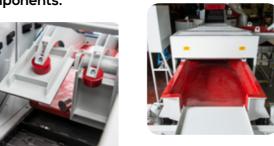
#### Sliding Acoustic Lid

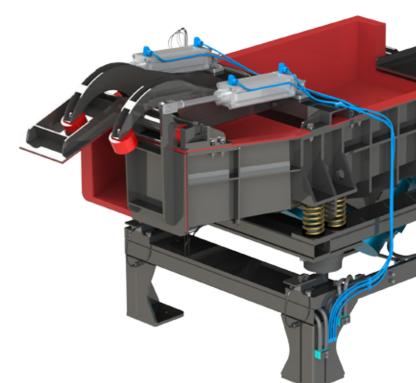
We designed the Sliding Acoustic Lid to be opened sideways rather than upwards. The enclosure can be opened partially for load and unload of parts which reduces the noise of the machine as compared to opening a full lid. The Sliding Acoustic Lid is available as an accessory for our O Series Vibratory Finishing Bowls.

#### Feeder and Hopper

#### **Vibratory Parts Feeder**

This accessory accumulates single or multiple batches and can transfer components by a set weight into the machine directly or via a conveyor. In order to facilitate storing multiple batches of parts, pneumatically operated gates can be incorporated. The parts can be fed directly into the vibratory parts feeder from other machines or accessories such as an automatic saw. Incorporating the parts feeder into a system can improve the throughput significantly, and reduce the manual handling of components.





#### **Stationary Parts Feeder**

This accessory is used to guide a batch of parts into the machine. It requires parts to be fed into the machine manually. This is an ergonomic option for operators when large quantities of parts are required to be loaded into the machine.



#### Media Hopper or Feeder

The top up media hopper or feeder is polyurethane lined and has been designed to replenish worn out media at set intervals. As the level of media reduces in this hopper, a signal is sent to the operator. This ensures the media to parts ratio is maintained in the machine, thus giving consistent results.



Contact us to <u>get a quote</u> today!

#### Storage Hopper

This is normally used when complete discharge from the vibratory finishing machine is required. This is specially designed to hold the full volume of the content in the vibratory machine. After media and parts have been discharged at the end of the finishing process, these can be fed into a vibratory separation system to separate media from parts.



#### Powder Feeder

A time controlled hopper with an electrically controlled valve that dispenses powders into the machine. For example, separating compound can be fed into the machine automatically for every batch of components being processed to reduce the risk of any human error.

This feeder can be adapted for small components.







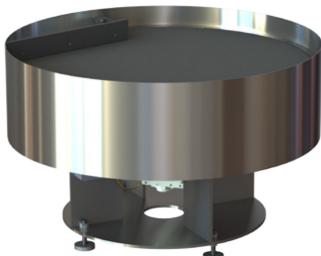
#### **Rotary Table**

It is used as part of a finishing system where the parts are collected after being processed.

Advantages of the rotary table:

- Pushes parts to the middle away from the unloading chute of the machine, therefore reducing impingement.
- Provides an ergonomic surface for the operator to sort and collect the parts into their respective containers.





Contact us to get a quote today!



#### Portable unload cabinet

Collects the parts from the discharge chute of the machine. The cabinet is lined with acoustic foam, to reduce noise when parts are being collected. This removes the need for the operator to be there immediately post-completion of the process and facilitates the collection of finished components ergonomically and efficiently.

#### **Divider Plate**

The work chamber of a trough or bowl machine can be sub-divided using divider plates to provide separate compartments for precision or delicate components, yet providing a highly efficient machine capable of batch processing.

We offer cast and spray lined polyurethane divider plates for the trough machine and nylon for the bowl machine.

• Sizes manufactured to suit the machine type.

The divider plate fixture system has been designed to offer flexibility in changing the chamber size to suit the part geometry.



#### Part fixture

For processing multiple sensitive parts, ActOn offers the option of a special fixture to mount the components. This ensures no damage occurs.

#### Media Recirculation System

Post-processing on certain applications, the media is discharged 100% from the process chamber. This can be recirculated back into the machine for the next batch of parts. This can be done by a conveyorised return system or via a vacuum return system.



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# Accessories for Treatment of Discharge in Mass Finishing Systems

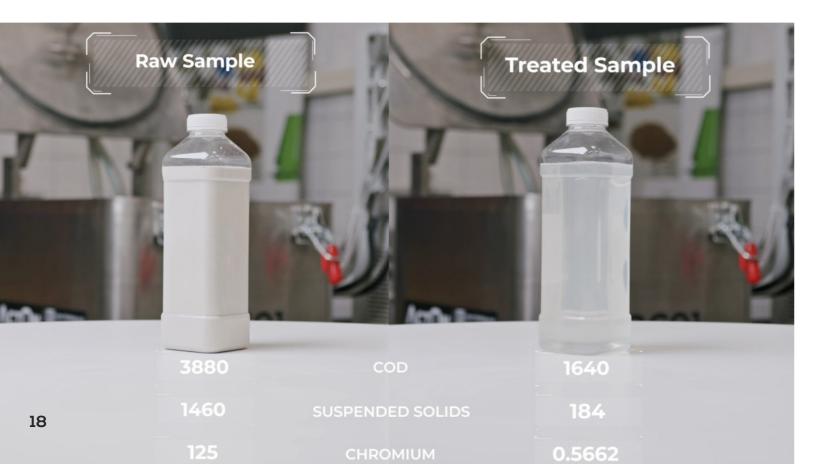


#### **Batch and Automatic Centrifuge**

The ActOn Batch Centrifuge comprises of a mechanical centrifuge, recycling tanks and pumps. The unit is designed to work in the most effective manner to treat the discharge water from mass finishing – either suitable for recycling or discharge to the foul drain as dictated by the process. The solids are captured in the basket of the centrifuge and then disposed of based on country specific regulations.

The ActOn AAC-36 Centrifuge allows for treating of waste water discharged from finishing machines. Using cost effective methodology, it provides efficient effluent treatment by removing the solids before discharge into drain, and water recycling to be further used in finishing processes.

Request your <u>Free Trial</u> today!



#### **Recirculation Tank**

The chemical recycling tank is a cost-effective accessory that has been built to ensure the optimum usage of chemical compounds by continuously recycling the compound back into the vibratory finishing machine. A combination of pump and valves control the recycling process. Based on the application, the tank will need to be emptied and topped up after a period of time.





#### **Settlement Tank**

The settlement tank is connected to the drain of the finishing machine and the effluent is discharged from the vibratory machine into this tank. Baffle plates are provided to assist settlement.

- Solids that settle out in the tank chamber can then be removed with ease by the operator with the removable baskets.
- Ergonomical and easy to use.
- Pump to transfer the liquid to the water treatment area (optional).
- Available in painted or stainless steel versions.

The settlement tank is available in the following standard dimensions in mm / inch (L x W x H):

- 0 1170 x 620 x 560 / 46.1 x 24.4 x 22
- 900 x 365 x 335 / 35.4 x 14.4 x 13.2

According to our clients' requirements, the settlement tanks can be customised.

For more information, please refer to our treatment of discharge in the mass finishing systems brochure.



Accessories for Centrifugal High Energy Machines

#### Automated Media or Parts Return System

The automated media or parts return system includes a vacuum return system which allows recirculation of the media, or parts, or both, to the barrels with top up of fresh media via hoppers. The system uses load cell for accuracy of media weight, thus ensuring a repeatable process. This accessory has been designed for CHE50, CHE80 and CHE240.



#### **Automated Dosing Controls**

A pump with dosing tanks can accurately dose the liquid into the barrels via a swivel pipe. Once set, the pump gives accurate control of the liquid compound usage, thereby reducing wastage, saving costs, providing a consistent finish, extended media life and keeps the work bowl of the machine clean.

Contact us to get a quote today!

#### **PLC & HMI Controls**

The PLC system of the ActOn Centrifugal High Energy Machine consists of a PLC and a Graphic Operator Terminal (GOT or Panel View).

A Graphic Operator Terminal can be provided for controlling various functions such as:

- Time and RPM Setting
- Cycle start
- Cycle stop
- Recipes
- Maintenance monitoring clock
- Inverter reset
- Door controls
- Barrel tilting and rotation
- Barrel surface temperature display
- Vibratory separator controls



- Required accessories are integrated via the PLC for setting the time / RPM.
- Most mechanical switches such as
- Barrel Jog, Emergency switch and Mains On.
- The machine operation can be secured with an operatorpassword.

Operation panel and various operator friendly screens can be designed to control the functions.

#### Spare CPM10 Barrels

ActOn Finishing offers the option of choosing between hexagonal and circular shaped barrels for the CPM10 machine to suit your process requirements. All barrels include removable polyurethane liners.

- The hexagonal barrel capacity is 2 litres / 0.07 Cu. Ft.
- The circular baller capacity is 2.5 litres /0.08 Cu. Ft.
- Approximate dimensions of hexagonal barrel in mm/inch (W x L): 136 x 129 / 5.3 x 5.1
- Approximate dimensions of circular barrel in mm / inch (W x L): 157 x 129 / 6.1 x 5.1





#### **Barrel Holding Station**

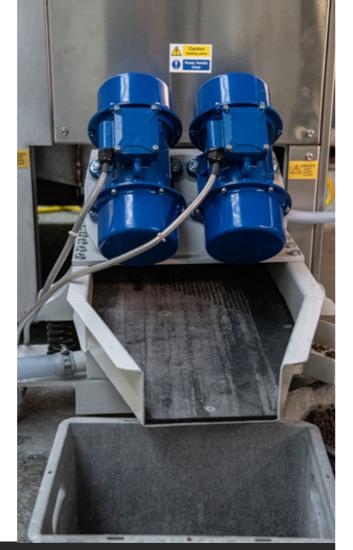
Designed to provide a place to seat the barrels and lids of the CPM10 finishing machine. In order to make this portable, the table includes castor wheels. It also comes equipped with lid storage shelves along the flange, thus providing better storage facilities.

Each of the barrel holder is has been designed to include a screw clamp in order to hold the barrel into place when accessing the contents.

#### **Vibratory Separation System**

The Vibratory Separation System is a standalone unit. It includes a large separation screen and has an independent drive system. Upon completion of the process, parts, media and the mix of water and compound are discharged from the barrel into the vibratory separation system and separated via the screen.

- If components are flat, water jets can be connected to ensure all parts are discharged.
- The vibratory separation system can easily be integrated into a fully automated finishing system.
- The separation screens are made out of polypropylene and the sizes of holes and slots can be manufactured depending on the geometry of the part being processed and the type of media used.
- 0 An undersized media separation system can also be incorporated.



## Manual Separator with Splash-Guard

Enables end user to separate parts from media from CPM10 barrels at the end of the process.

- Includes a barrel resting station, for emptying contents onto a separation screen.
- The separation screen has a tapered end to feed the media back into the barrels for next cycle.
- Equipped with water gun to clean media and parts of any sludge accumulation.
- Includes a collection chamber attached to a drain valve, to collect the discharged water. This can be connected to a drain directly, or emptied into a drum for later removal
- Mounted on castor wheels for easy movement.



#### **Barrel Tilting Mechanism** for CHE30 Machines

An ergonomic method used to empty the contents of CHE30 barrels. This system allows the barrels to be clamped and tilted so the contents are completely emptied over a separation screen. This reduces the strain on the operator to manually lift and empty the barrels.



#### **Unload Chute System**

Post-processing of delicate parts, these cannot be unloaded onto a separation screen as it may cause damage to the components. To overcome this, the machine is customised with bottom unload doors, allowing the operator to position the trolley underneath the chute. The trolley has a basket which holds the media, parts and liquid.



Contact us to get a quote today!



#### Liners

Polyurethane or metal reinforced liners are available based on the application. Metal reinforced liners ensure small parts are not trapped between the lip of the top and bottom liners. The liners can also have dividers to ensure there is no impingement between parts when being processed.

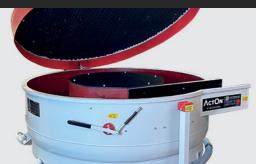


## we manufacture









#### Bowls

Each of our Bowls are simple to operate, highly efficient, and manufactured in classic designs and sizes to meet your unique applications.



#### **Centrifugal High Energy**

Engineered with the latest technology, the drive mechanism is designed to produce high g-forces, resulting in shorter process times. This technology can be used for both wet and dry processes.



#### **Troughs**

We offer Troughs in many different sizes and an infinite choice of length and width combinations, making them one of our most versatile. These are particularly useful for larger components.



#### **Shot Blasting Cabinets**

We offer a range of Shot Blast Systems to help our customers achieve the surface finish they need every time. Whether you require to descale, remove corrosion, mill scale, paint or rust, achieve a smooth finish, deflash, polish or strengthen the metal we will offer you full support every step of the way.



#### **Duals**

The orbital Dual finisher works to both deburr and dry in one single unit. This is both an excellent and economical finishing option.



#### **Wheel Blasting Systems**

At ActOn we now offer a range of Wheel Blast Systems to help you achieve the surface finish you need. We can cater to all your application requirements including descaling, removal of corrosion or rust, paint stripping, de-flashing, achieving a smooth finish, shot peening, polishing and surface preparation prior to coating.



#### **Dryers**

Our unique, elliptical-shaped Vibratory bowl drying machines are compact in size, and simple to operate. The design provides the flexibility to use it as an effective 1 lap drying process or a multi lap process. We also offer centrifugal dryers, conveyorised ovens and rotary dryers.



#### **DLyte Technology**

DLyte Finishing Technology is a fully automatic finishing system which enables you to deburr, grind, surface finish & mirror polish in one step. It is used for metal parts which require high performance or superior finishes, including steel and stainless-steel, cobalt chrome, titanium, nickel and other common metal alloys.



#### **Wheel Polisher**

Suitable for achieving a highly polished finish on wheels with different sizes (up to 610 mm), the AWP188 machine has been designed to be simple to operate and to produce excellent results. The wheel polisher is great for grinding, smoothing and polishing processes.



#### **Waste Water Treatment**

During the finishing operation, the effluent can be polluted with oil, media and metal fines. Our customers trust us to help select a waste water treatment system that complies with the industry's growing regulations. Once processed, the effluent is treated in the ActOn centrifuge system before being discharged to the drain or recycled.

Man x Machine x Media =  $M^3$ 

## Consumables

Over the years, we have been at the forefront of the industry, developing a range of consumables with the aim of achieving the desired finish on various components.

Working closely with highly skilled manufacturers, our Engineers have understood the numerous challenges faced in the different industries and developed suitable consumables.

Choosing the right consumables is crucial in achieving your desired finish, and we endeavour to help you, and all customers, select the media and compounds right for your products.



#### **Liquid Compounds**

An extensive range of compounds is manufactured on site, which suit almost any application. Compounds accomplish cleaning, inhibiting for rust and corrosion of parts, brightening, descaling and degreasing. Often, they reduces media costs and process time. All of our compounds are biodegradable, too.



#### **Powder & Pastes**

A full range of powders and pastes are available, all of which complement the media and contribute to the grinding, cleaning and polishing of ferrous and non-ferrous materials. These products are suitable in freshwater operations.



#### Plastic Media

Our range of plastic media comes in various grades, shapes and sizes and is specially designed for smoothing processes and removing light burrs. This media also reduces the risk of part damage, and gives us a consistent, bright and matte finish.



#### Ceramic Media

Our ceramic media comes in a variety of abrasive grades, starting from low abrasive to super finishing. This type of media is suitable for various deburring, radiusing and polishing processes, and is specially formulated to go hand-in-hand with ActOn's compounds.





#### Agro Media Part of our agro media range is corncob and walnut shell. Both products come in various grain sizes, which are carefully chosen to suit the specific parts. The corncob grains are known to have high abrasion

resistance, good moisture absorption, low specific gravity and are employed mainly for drying in the Rotary Dryers and Vibratory Dryers. Walnut shell is a hard and fibrous material of medium abrasiveness, and is used in both the polishing and deburring processes, as it leaves

no scratches or pitting.

#### **Pre-treated Media**

All of our agro media comes in a treated, bovine-free form, which is particularly suitable for high lustre or mirror finishes.

#### Special Media

Our special media includes steel media, a separation ball media that keeps flat parts separate, ensuring they don't stick together.





#### **Subcontract Service**

On top of our state-of-the-art machinery and media, we also supply a range of support & training services. Moreover, we'll tailor our services & products to your needs, not the other way around. Our finishing service is all about you.

We suit our Finishing Technology and Subcontract Services to cover your needs. From a proved surface finishing technology we will adapt it according to your requirement. Just contact us to get a quote. We will do the rest.

1. Finishing needs: will carry out free trials using ActOn technology

3. Customized engineering development

6. Commissioning

5. In-house validation

4. Production phase

Don't just think about it. It's now time to ActOn it.



CHEF, CLM, CDF, Shot Blasting & Vibratory Finishing Subcontract



**Inspection Services** 



Installation, Training, Maintenance Services



Equipment Refurbishment & Spare Parts Service

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### What Our Customers Say

"Recently purchased a VB2OS for use in our manufacturing for motorsport division. Good value, great vibratory bowl machine and attitude. professional sales, engineering and support pre and post installation, very much recommend."

Edward Beeston, Lohen

"ActOn were quick to develop a solution for the shell cleaning system. The disc finishing machine has improved our throughput significantly and we are pleased with the quality of machine that they have manufactured and installed. We look forward to working with ActOn on future collaborative projects."

Henry Illsley (Shell Process Engineer), Rolls Royce Bristol



### **Quality You Can See**

We pride ourselves on our excellence, and over the years we have successfully demonstrated an ongoing compliance with ISO quality and environmental standards. We're also an approved supplier for many of our industries, including medical and aerospace.

For ISO, we currently hold:









"The bitterness of poor quality remains long after the sweetness of low price is forgotten."

Benjamin Franklin

#### we redefine

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