

we redefine

Coin Blanking Industry



We're the UK's leading experts in providing effective and efficient processes, and solutions, for the coin blanking industry.

we redefine:

- Vibratory Finishing
- High Energy Finishing
- 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.



Mass Finishing for the Coin Blanking Industry

We understand the importance of a high quality surface finish in the coin blanking industry. Contamination of dust or the presence of surface defects produce poor quality coins. The coin blanks must be finished to a high specification before being minted.

Companies within the industry usually implement mass finishing techniques in their processes for the economic advantages, and the consistent results achieved. Manual finishing processes are known to be labour intensive, with the disadvantages of rework, inconsistent results and high costs. Having identified the issues, we offer a wide range of unique solutions that improve current processes, reducing cost and achieving the repeatability and quality desired by our customers. ActOn's finishing equipment and consumables have been well adapted and accepted by global market leaders worldwide.

Process applications include:

- Cleaning of coin blanks ready for striking
- Surface finishing before and after plating
- Deburring, cleaning and burnishing before and after the annealing process
- Descaling post annealing
- Burnishing of silver and gold bars
- Drying to prevent tarnishing of the surface or oxidation

The results are achieved in ActOn's finishing machines using burnishing media and specially formulated compounds. Depending on the final finish required, the surface finishing stages can be repeated after coins have been stamped. We understand the importance of achieving the result with negligible weight loss of the component.

Some of the materials we have worked with:

- Gold
- Silver
- Copper
- Stainless steel
- Brass
- Aluminium



ActOn Research and Development

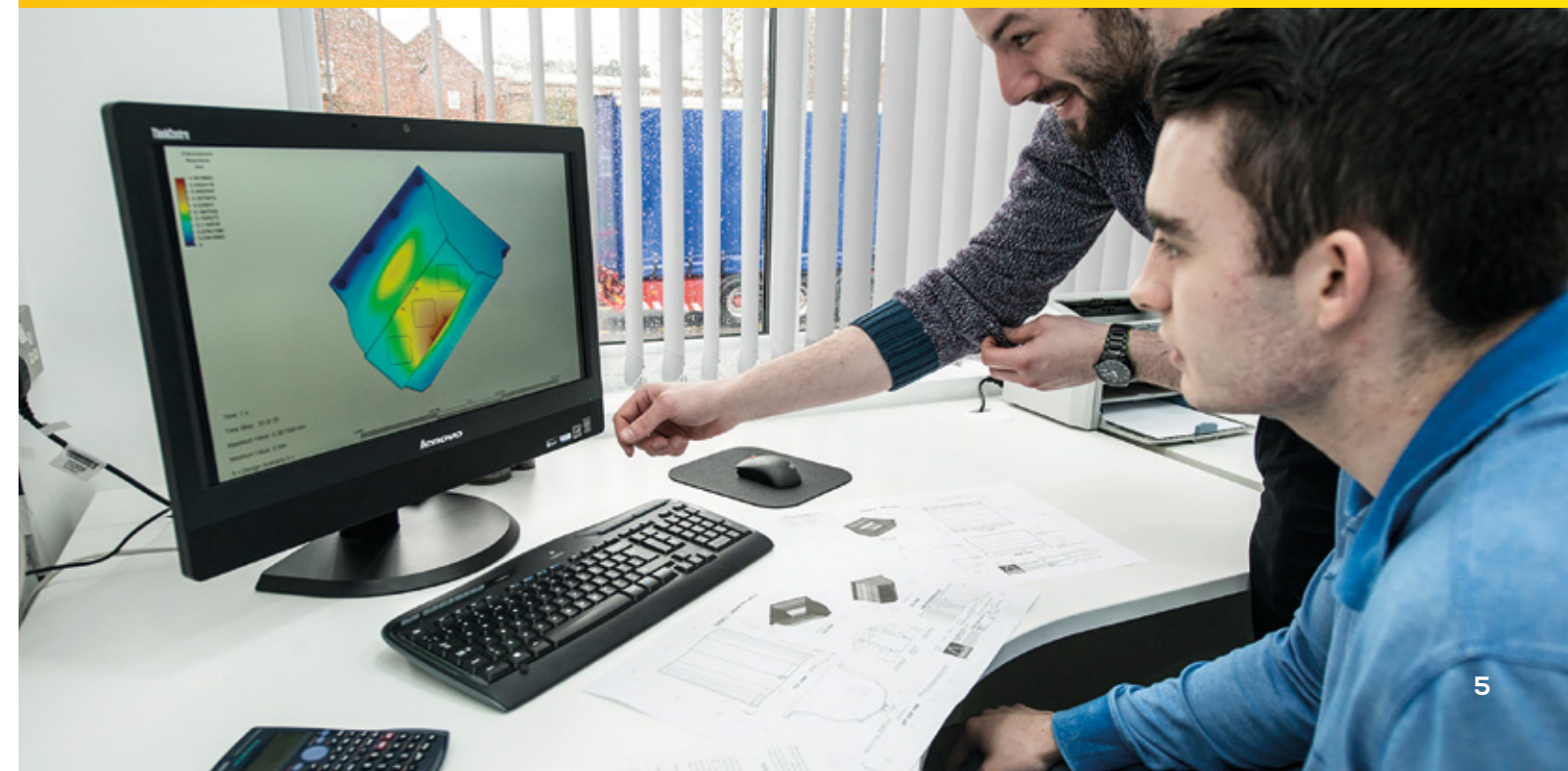
We are continually evolving our processes and machines, making them more effective.

We also have academic connections throughout the United Kingdom and around the world, which help facilitate our Research and Development department, where we house various metrological equipment to ensure that our customers' requirements are met and exceeded.

By combining our complete process knowledge with decades of experience, and our all-encompassing range of machinery, we can deliver the most optimum, cost-effective and environmentally friendly finishing solution for your needs.

Our most popular consumables for the coin blanking industry:

- Stainless steel media for burnishing, cleaning and light deburring purposes. This media wears very slowly and has a life of up to 10,000 hours. ActOn's stainless steel media is available in different shapes such as balls, ball cones and steel pins
- Polishing media is ideal for removing oxidation and mass residual deposits and achieving a bright polished finish. This media comes in many shapes and sizes to suit part geometry
- ActOn's agro-media for a clean polished finish. This product is an excellent moisture absorbent media which also produces a stain-free polish effect, preventing tarnishing or oxidation of the surface
- ActOn pre-treated agro-media has been developed for polishing components in the High Energy finishing machine. The result is a high mirror finish in a short time
- P6 powder compound is an ideal product for a polished finish on copper parts when used with polishing media
- LQ9 liquid compound, which is excellent for obtaining a bright polished finish on ferrous and non-ferrous metals. This compound is our bestseller in the coin blanking industry, being used by major manufacturers around the world





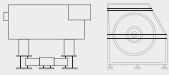
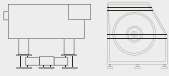
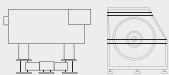
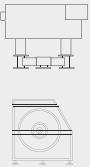
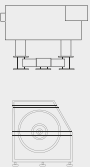


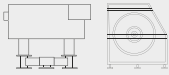
Man x Machine x Media = M³

Products we redefine

Here are just a handful of products that we can help to perfect.

Click [here](#) to request your Free Trial today!



Component	Output Required	Machine Type	Media Type			Compound Type		Typical Process Time
			Deburring Media	Polishing Media	Drying Media	Deburring	Polishing	
Silver Bar	Polished Finish			○			○	10 mins
Aluminium Medal	Deburring and Mirror Finish		○	○		○	○	120 mins
Copper Medal Blank	Deburring and Bright Finish		○		○	○		60 mins
Gold-Plated Coin Blank	Burnishing			○	○		○	60 mins
					○	○		○
Stainless Steel Coin Blank	Burnishing			○			○	60 mins
					○			○
Proof Coin	Mirror Finish			○	○		○	15 mins
Nickel Embossed Label	Mirror Finish				○			20 mins
Gold Ingot	Deburring and Mirror Finish		○		○	○		30 mins

Bowls

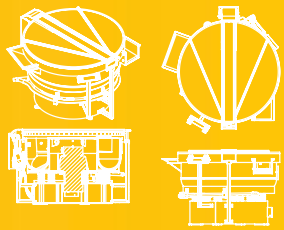
Each of our Bowls are simple to operate and highly efficient, manufactured in classic designs and sizes to meet your unique applications.

Key Features

- ✓ Wear resistant casted hot cured polyurethane lining
- ✓ Acoustic lid for noise reduction
- ✓ Flap clearing system
- ✓ Inverse separation
- ✓ Undersized media separation
- ✓ Single and Variable speed motor
- ✓ Powerful drive system with sealed bearings for maintenance-free running
- ✓ Flyweights set for optimum action in bowl
- ✓ Bench top options available

Key Benefits

- ✓ British high-quality product
- ✓ Durable machine due to design, good quality materials and workmanship knowledge
- ✓ Very quiet machine in operation due to the acoustic lid
- ✓ Wear-resistant lining
- ✓ Easy to operate
- ✓ Low maintenance
- ✓ Can be used as a continuous or batch system
- ✓ Suited to small and large volumes of parts
- ✓ Accessible process chamber
- ✓ Easily automated



Troughs

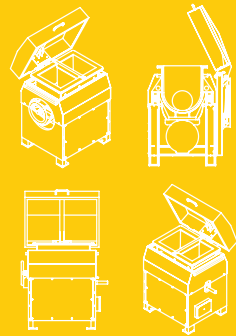
We offer Troughs in many different sizes and an infinite choice of length and width combinations, making them one of our most versatile. These are particularly useful for larger components.

Key Features

- ✓ Wear resistant casted hot cured polyurethane lining
- ✓ Acoustic lid for noise reduction
- ✓ Single and variable speed drive
- ✓ Powerful drive system with sealed bearings for maintenance-free running
- ✓ Unload door for complete discharge of media and parts
- ✓ Compact design
- ✓ Divider plates to remove risk of impingement
- ✓ Painted or Stainless Steel side panels available
- ✓ Portable options available

Key Benefits

- ✓ British high-quality product
- ✓ Simple to operate and highly efficient
- ✓ Durable machine due to design, good quality materials and workmanship knowledge
- ✓ Very quiet machine in operation due to the acoustic lid
- ✓ Wear-resistant lining
- ✓ Easy to operate
- ✓ Low maintenance
- ✓ Suited to small and large volumes of parts
- ✓ Accessible process chamber
- ✓ Large systems can be built for continuous operation
- ✓ Easily automated



Duals

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

Key Features

- ✓ Wear resistant casted hot cured polyurethane lining
- ✓ Acoustic lid for noise reduction
- ✓ Flap clearing system
- ✓ Inverse separation
- ✓ Undersized media separation
- ✓ Single and variable speed motor
- ✓ Powerful drive system with sealed bearings for maintenance-free running
- ✓ Flyweights set for optimum action in bowl

Key Benefits

- ✓ Option to carry out both wet and dry process in one machine
- ✓ Accessible process chamber
- ✓ British high-quality product
- ✓ Simple to operate and highly efficient
- ✓ Durable machine due to design, good quality materials and workmanship knowledge
- ✓ Low maintenance
- ✓ Suited to small and medium volumes of parts
- ✓ Can be automated if required
- ✓ Can be used as a continuous or batch system
- ✓ Space saving
- ✓ Energy efficient



Driers

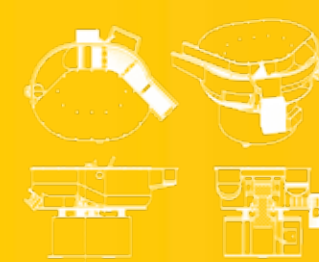
Our unique, elliptical-shaped Vibratory bowl drying machines suit a variety of finishing needs. Our machines are compact in size and simple to operate.

Key Features

- ✓ Vibratory driers have an elliptical shape to produce 100% discharge of parts
- ✓ Side loading chute of parts from vibratory bowl machines
- ✓ Flap clearing system to avoid part and media entrapment
- ✓ Single and variable speed motor
- ✓ Powerful drive system with sealed bearings for maintenance-free running
- ✓ Flyweights set for optimum action in bowl
- ✓ Can also remove light grease on parts as the agro media absorbs it
- ✓ Effective as a 1 lap process
- ✓ Other driers in our range include rotary and conveyerised ovens

Key Benefits

- ✓ Suitable for in line or batch work
- ✓ Can be used for drying and/or fine polishing using agro media
- ✓ Takes less floor space due to the elliptical shape
- ✓ Ability to handle a wide range of parts with different shapes and sizes
- ✓ Accessible process chamber
- ✓ British high-quality product
- ✓ Simple to operate and highly efficient
- ✓ Durable machine due to design, good quality materials and workmanship knowledge
- ✓ Low maintenance
- ✓ Can be automated if required
- ✓ Energy efficient as a result of specially designed heating elements



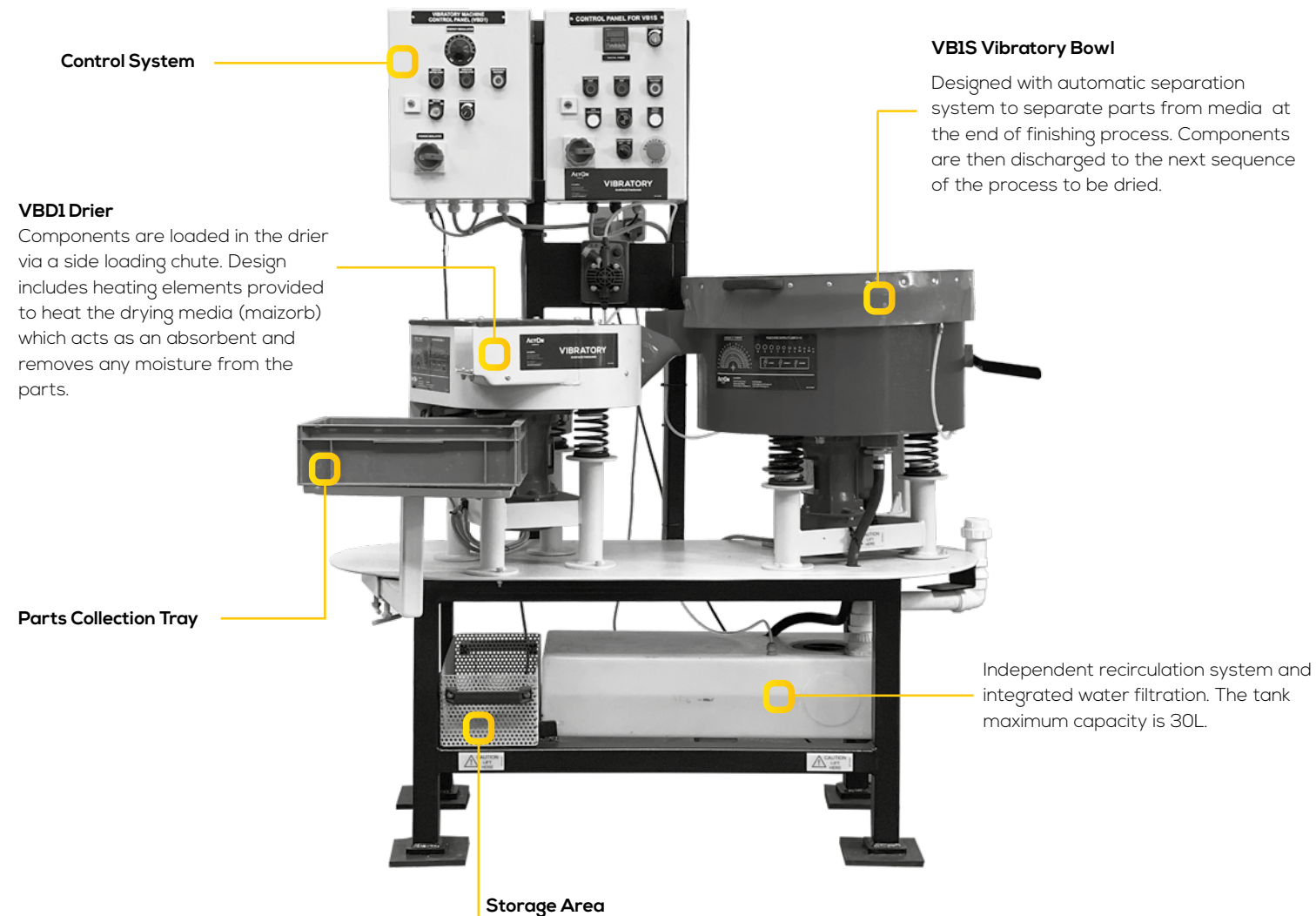
SPU-1 Vibratory Finishing System

A Single Portable Unit ideally suited for small batch works and delicate parts, which can be used as either a batch or a continuous system.

This vibratory finishing system is perfect for deburring, descaling, degreasing, cleaning, smoothing, radiusing, polishing and drying. This is both an excellent and economical finishing option.

System Benefits and Features

- ✓ Portable unit.
- ✓ Built in compound recirculation system.
- ✓ Water/compound can be filled from the side of the machine.
- ✓ Available in 3 phase and 1 phase.
- ✓ Compact design
- ✓ British built high-quality product
- ✓ Efficient in operation
- ✓ Quiet in operation
- ✓ Operator friendly controls



VB10P Vibratory Finishing System

This Vibratory Finishing System has been designed to ensure 100% unload of media and components from the finishing machine, while reducing manual handling and achieving a consistent finish every time.

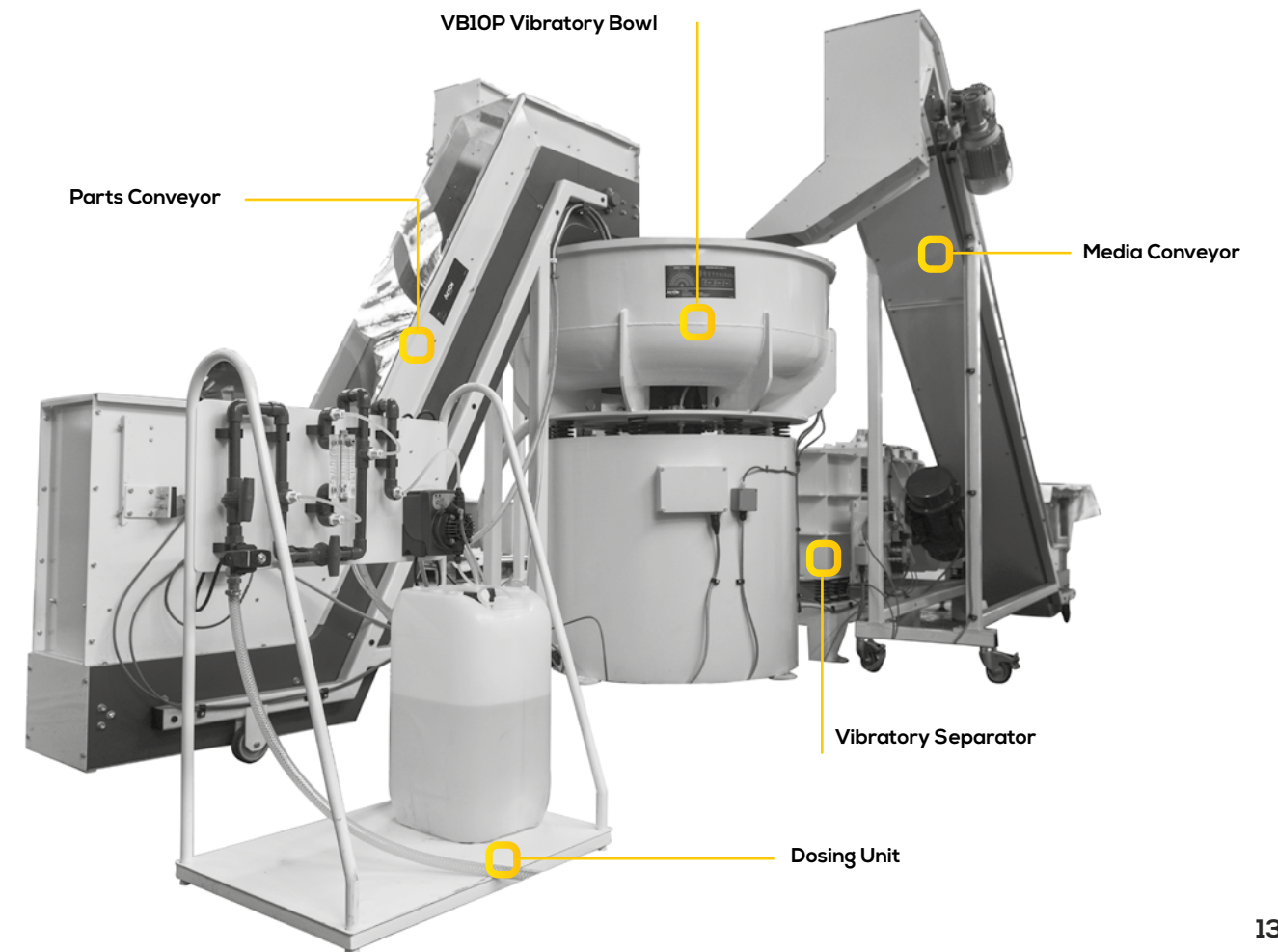
System Description

This vibratory system allows the operator to set up the process parameters and easily control the process. Once the process starts, a set batch of parts are loaded into the vibratory finishing bowl via a conveyor.

At the end of the process the bowl's pneumatic media door opens allowing the parts and media to be discharged in a storage hopper. This stage ensures 100% unload of media and parts from the finishing machine. After the parts and media

have been unload the pneumatic door closes to allow a new finishing process to begin.

The system also includes a vibratory separator which enables the separation of parts from media. The undersized media falls through a separation grid and is filtered from the system, while the rest of the media returns into the vibratory bowl through a conveyor. The finished components are transferred from the vibratory separator to a conveyor and discharged in the packing area.



High Energy Finishing System

Built with the latest high energy technology, the drive mechanism is designed to produce high g-forces resulting in a high polishing efficiency. The machine consists of 3 or 4 barrels mounted on the periphery of the turret. The turret rotates at high speeds which sets a centrifugal force within the barrel 5-25 times the normal gravity. The barrels and turret are counter rotating which delivers the highest polishing efficiency. The result of this orbital motion is that the centrifugal force applied increases the weight of the abrasive media and this then slides against the components, producing a superior result in a short space of time. Often, these results cannot be achieved using vibratory finishing machines. The high energy finishing machines are widely used in the industry to produce a mirror finish on components.

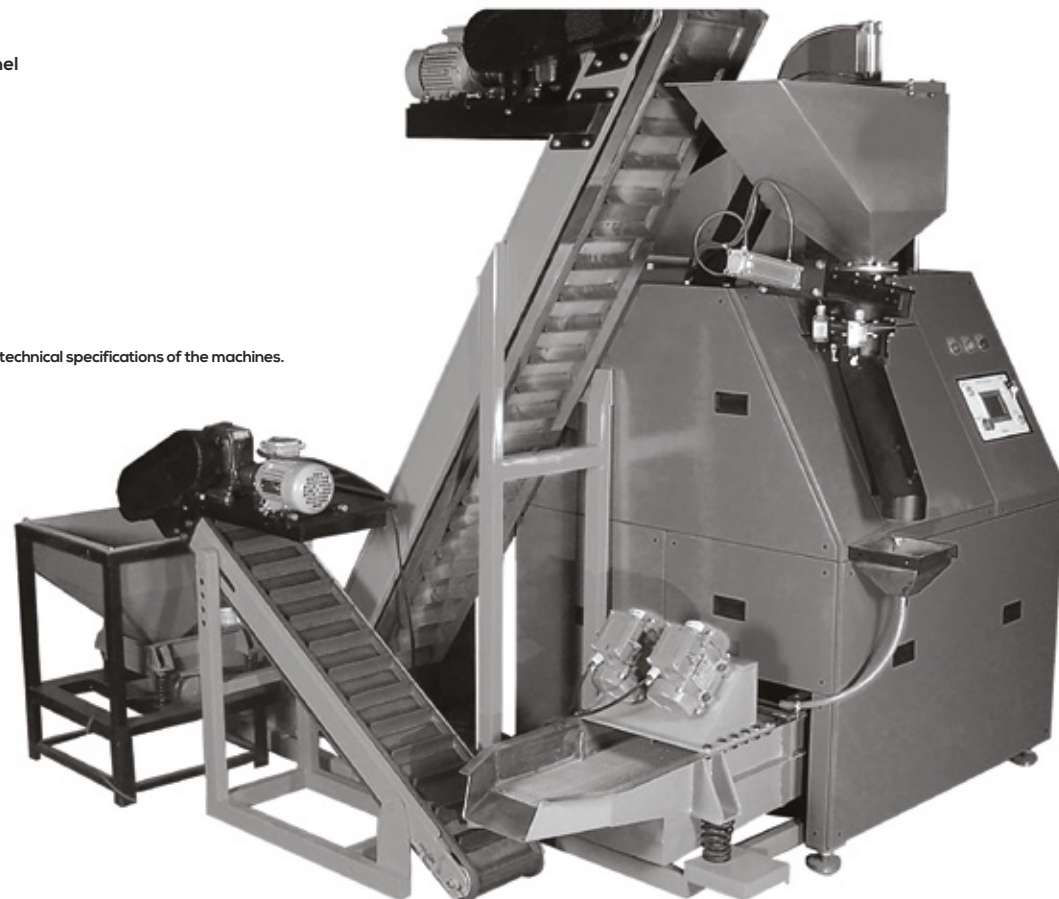
Key Benefits

- ✓ High polishing efficiency
- ✓ Great for descaling, deburring and mirror finishing
- ✓ Minimum loss of material
- ✓ Gentle action on parts
- ✓ Greater control of the process
- ✓ No need for fixturing or tooling
- ✓ Fast processing times
- ✓ No impingement
- ✓ Easy to maintain

Key Features

- ✓ Automation capable
- ✓ Control through HMI or control panel
- ✓ Media recirculation
- ✓ Media separation system
- ✓ Compound and water dosing
- ✓ Unbalanced weight detection
- ✓ Pressure release valves
- ✓ Removable barrels and liners
- ✓ Variable speed
- ✓ Operator friendly

Please refer to our product brochures for the technical specifications of the machines.



CHE240 Finishing System

The system is PLC controlled, ensuring measurements of media, parts and compounds are precise and accurate. The system delivers consistent results in short cycle times. The HMI allows the operator to choose the desired recipe and have access to the maintenance schedules.

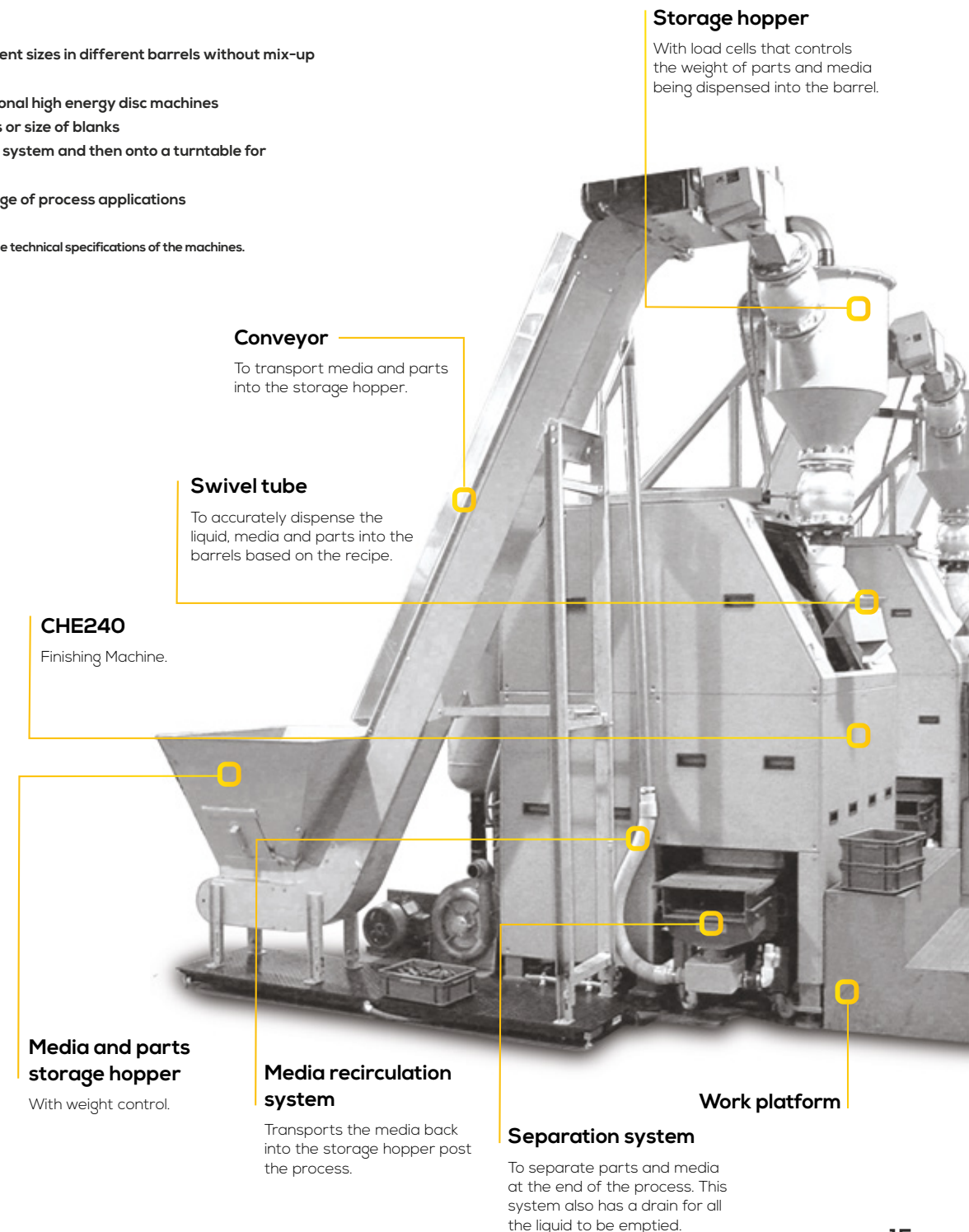
Key Features

- ✓ Automatic loading of parts, media and compounds (semi automated and manual versions also available)
- ✓ PLC and HMI controls
- ✓ Recipe controlled
- ✓ Media recirculation system
- ✓ Ability to process blanks of different sizes in different barrels without mix-up
- ✓ Consistent results
- ✓ Faster process times than traditional high energy disc machines
- ✓ No restriction in weight, thickness or size of blanks
- ✓ Parts are transferred to a drying system and then onto a turntable for collection
- ✓ Can be tailored to suit a wide range of process applications

Please refer to our product brochures for the technical specifications of the machines.

	CHE240
Batch Type	Multiple batch system (3 barrels)
Load Capacity	25kg - 75kg of blanks*
Processing Time	Ranges from 15 to 45 minutes*

*Above figures are indicative and may vary based on blank type and process application.



Storage hopper

With load cells that controls the weight of parts and media being dispensed into the barrel.

Conveyor

To transport media and parts into the storage hopper.

Swivel tube

To accurately dispense the liquid, media and parts into the barrels based on the recipe.

CHE240

Finishing Machine.

Media and parts storage hopper

With weight control.

Media recirculation system

Transports the media back into the storage hopper post the process.

Work platform

Separation system

To separate parts and media at the end of the process. This system also has a drain for all the liquid to be emptied.

B Series Finishing System

This system was designed for descaling, burnishing and drying of coin blanks. The system is automated, ensuring minimum operator intervention and guaranteeing consistent results.

Key Benefits

- ✓ Ensures high quality descaling and burnishing of coin blanks
- ✓ Minimum loss of material
- ✓ Drier can be used for drying and /or fine polishing using agro media
- ✓ Ability to handle a wide range of parts with different shapes and sizes
- ✓ The system can work for continuous batch production
- ✓ Very quiet in operation
- ✓ Clean process
- ✓ Easy to operate
- ✓ Low maintenance
- ✓ Energy efficient
- ✓ British high quality product
- ✓ Durable machine due to design, good quality materials and workmanship knowledge

Key Features

- ✓ B series machines are designed to suit this heavy duty application with a powerful drive system and special springs
- ✓ Special rubber lining to assist the movement of the parts during the process can be incorporated (B Series machine)
- ✓ Flyweights set for optimum action in bowl
- ✓ Drier design includes an access hatch over the separation screen of the drier to allow operator to view parts
- ✓ Dosing unit recommended to control the compound flow rate dosed into the bowl. This ensures parts are clean and give an extended life of media and machine work bowl
- ✓ The system can be further automated to improve the efficiency

Please refer to our product brochures for the technical specifications of the machines.



[Click here to request a Quotation today!](#)

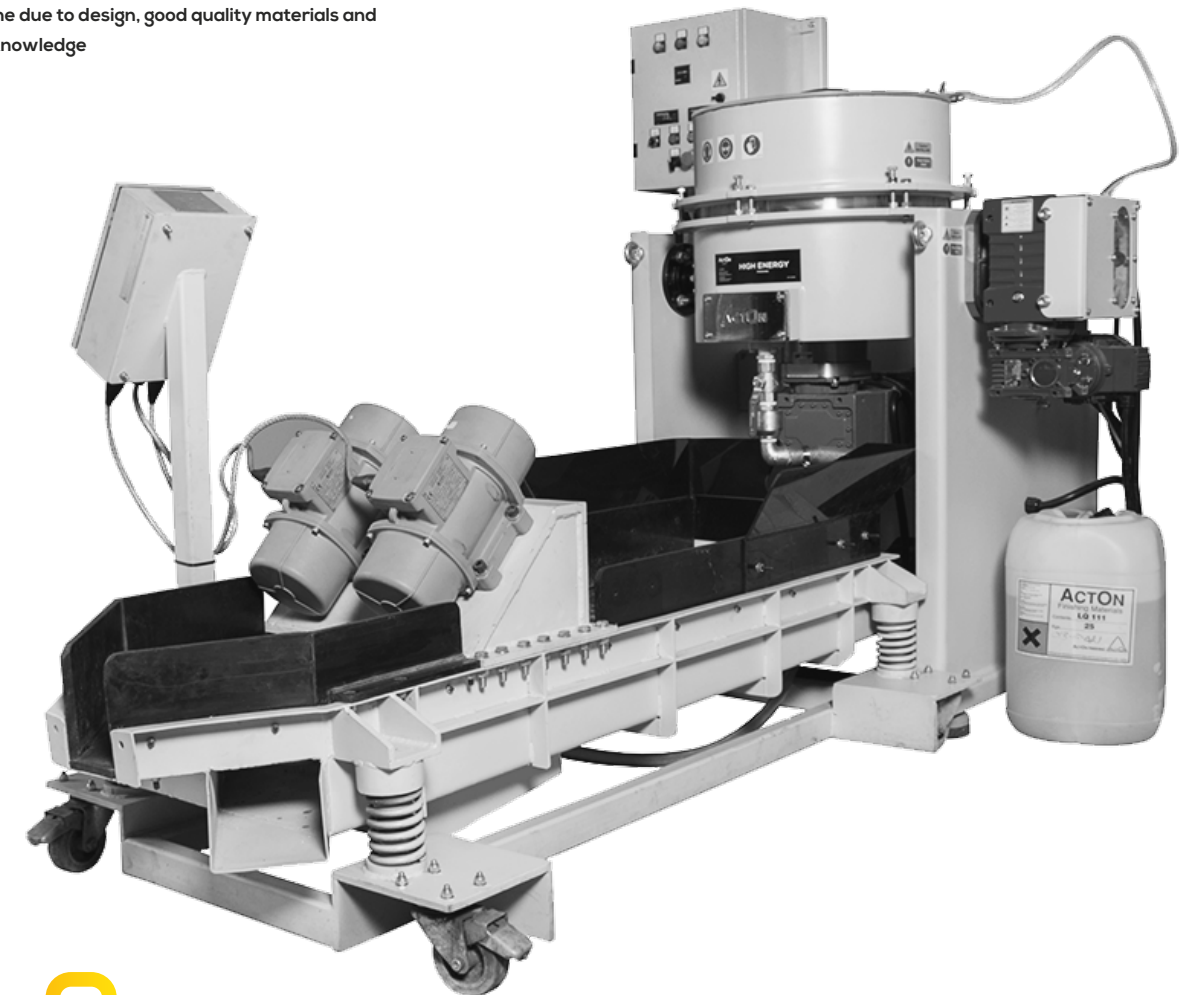
Centrifugal Disc Finishing System

This ActOn Disc Finishing system is unique in design and meets the highest standards required by the mint industry. The design allows continuous output: while the finished batch of coin blanks are separated from media and discharged, a new batch is being processed in the disc finishing machine.

The process is fully automated and controlled from the point of coin blanks being processed to the discharge of the parts.

Key Benefits

- ✓ Equipments configuration results in seamless and controlled processing
- ✓ Operator intervention is minimal
- ✓ Measured throughput to avoid excessive loading & controlled process
- ✓ Repeatable process via recipe control
- ✓ Customised to user requirements
- ✓ Very quiet in operation
- ✓ Clean process
- ✓ Easy to operate
- ✓ Low maintenance
- ✓ Energy efficient
- ✓ British high quality product
- ✓ Durable machine due to design, good quality materials and workmanship knowledge



Man x Machine x Media = M³

Consumables

Over the years, we have been at the forefront of the industry, developing a range of specially formulated consumables approved by the coin blanking industry.

By working closely with our customers, our Engineers have understood the numerous challenges faced in the industry and developed suitable consumables.

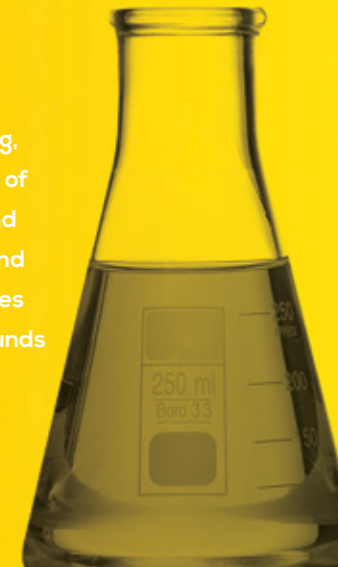
Choosing the right consumables is crucial in achieving your desired finish, and we endeavour to help you to select the correct media and compounds for your components.

Please refer to our Consumables brochure for more information.



Liquid Compounds

Compounds are very important to the mass finishing process. An extensive range of specially formulated 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, the compound reduces media costs and reduces process time. All of our compounds are biodegradable, too.



Powders & 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 Driers and Vibratory Driers. 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.

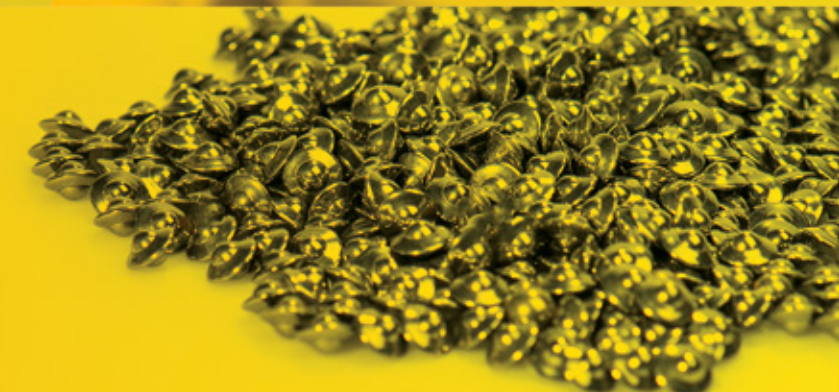
Pre-treated Media

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.



Value Added Service

On top of our state-of-the-art machinery and media, we also supply a range of support and training services.

Learn more on how you'll benefit:

Subcontract Services

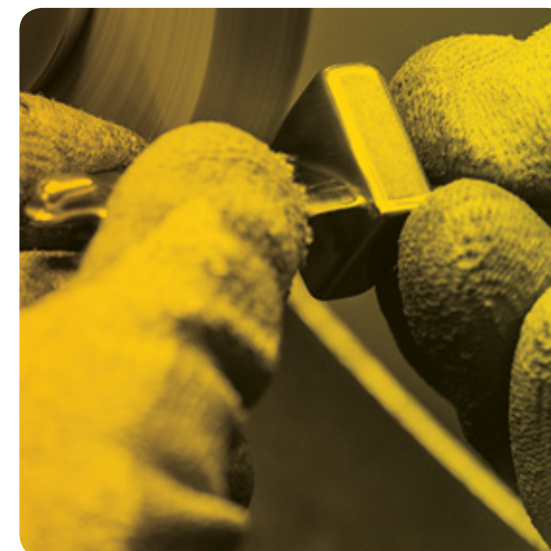
High Energy and Vibratory Finishing Services

Our factory is well equipped with High Energy (HE) and Vibratory machines, which are designed and manufactured by our Engineers. The HE machines provide a speedy finishing solution, as well as a high quality finish to the parts, eliminating any need of fixturing and preventing their impingement. Along with the HE machines we also have Vibrota finishing equipment, which processes parts of variable sizes and batch quantities.



Shot Blasting and Peening Services

We offer shot blasting service from our Coventry facility to our customers in the Architectural, Automotive, Defence, Design, Food Manufacturing, Health and Safety, Marine, Steel Manufacturing and Profiling industries. Our service can achieve the desired Sa standards to ensure that the part's surface is cleaned to the specification. our applications include descaling, removing corrosion, mill scale, paint or rust, achieving a smooth finish, deflashing, polishing, strengthen the metal and more.



Precision Polishing

In order to provide you with complete surface finishing solutions, we offer a precision polishing service for components from various industry sectors. In combination with our barrelling capability, you'll benefit in terms of cost, delivery and quality. Our applications include removal of manufacturing defects on femurs and aerofoils, which are inherent in the casting and forging process.

Inspection

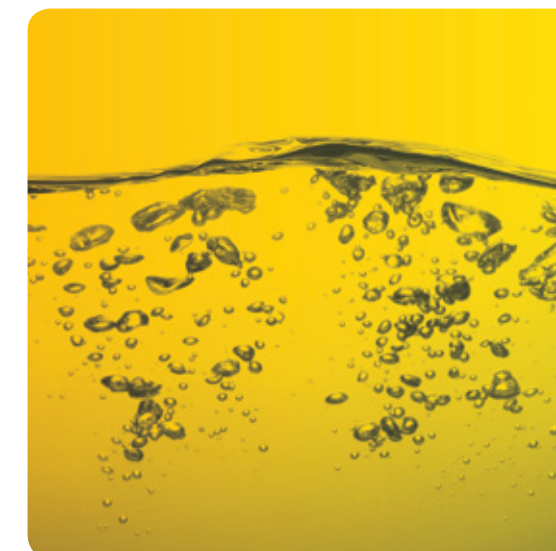
Our trained inspectors ensure every component is inspected to the required specification prior to delivery. The inspections can include visual, dimensional and surface finish measurements. Our document controls ensure that all inspections are recorded for traceability purposes.

Waste Water Treatment

During the finishing operation, the effluent can be polluted with oil, media and metal fines. It is critical that the effluent must be treated before going to drain, or if it is being recycled back into the system. Each area or district has its own discharge consent, hence the effluent must be analysed against this.

The effluent can be recycled, however there are certain applications where it is not possible. In that case, the treated effluent can be transferred directly to the drain. Recycling can save on the significant amount of water and compounds (greater than 90%) used.

We offer a range of flocculants (powder and liquid) coupled with our Centrifugal technology. Please refer to our waste water treatment brochure for more details.



After-sales, Training and Installation

We hire a number of highly trained staff, including engineers, who are on-call for all of your after-sales requirements. From installation and training, to maintenance and prompt professional advice, our finishing specialists are here for you every step of the way.

[Click here to request your Free Trial today!](#)

What Our Customers Say

“ It’s always been a joy to deal with the team, who are always very thorough and informed. ”

“ Not only do we now have high quality machines and compounds, we also have access to an excellent after-sales service. ”

“ Everyone I’ve come into contact with has been very responsive and organised. ”

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.

For ISO, we currently hold:



We're proud members of the 'Made in Britain' campaign.

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

Benjamin Franklin

