

ACTON[®]
FINISHING

Surface Finishing Applications

we redefine

Fashion



We're the UK's leading experts in providing effective and efficient processes, and solutions, for the fashion 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 Fashion Industry

We understand the importance of high quality polished jewellery in the fashion industry, and we work closely with our customers to adapt and develop finishing solutions that meet their stringent requirements.

It has been proven that the solutions we've developed have benefited the industry by reducing cost and producing a repeatable and quality product.

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, achieving the repeatability and quality desired by our customers. ActOn's finishing equipment and consumables have been well adapted and accepted by jewellers, goldsmiths and mid-sized manufacturers in the fashion industry.

Finishing Applications

Cleaning and Deburring

To achieve a smooth surface free from burrs the jewellery is finished using ActOn's finishing machines and a mix of plastic media, compound and water. Plastic media is highly recommended to process parts manufactured out of softer materials. The shape and size of the media will be chosen depending on the part geometry, hence avoiding any media lodgment and achieving a consistent finish.

Burnishing

This finish can be achieved in ActOn's finishing machines using Stainless Steel media and a mix of specially formulated compound and water. Through the burnishing process, the oxidation and the mass residuals deposits are removed from the parts without any impingements, which is most

important on components manufactured out of gold, silver and other valuable materials. Due to the shape and size of the media, even the most difficult areas to reach of the component are processed. The end finish will be a consistent, refined bright polished surface.

Drying and Polishing

Using ActOn's drier machine, along with the agro media to finish the component will result in a highly polished finish. The media is an excellent moisture absorbent, which also produces a stain free polish effect, without damaging the part geometry and the set stones such as diamonds, pearls, etc. The high mirror effect can be obtained using ActOn's pre-treated agro media and the High Energy Finishing machine. However, it is not recommended to process jewellery with set stones using this finishing process.

ActOn Research and Development

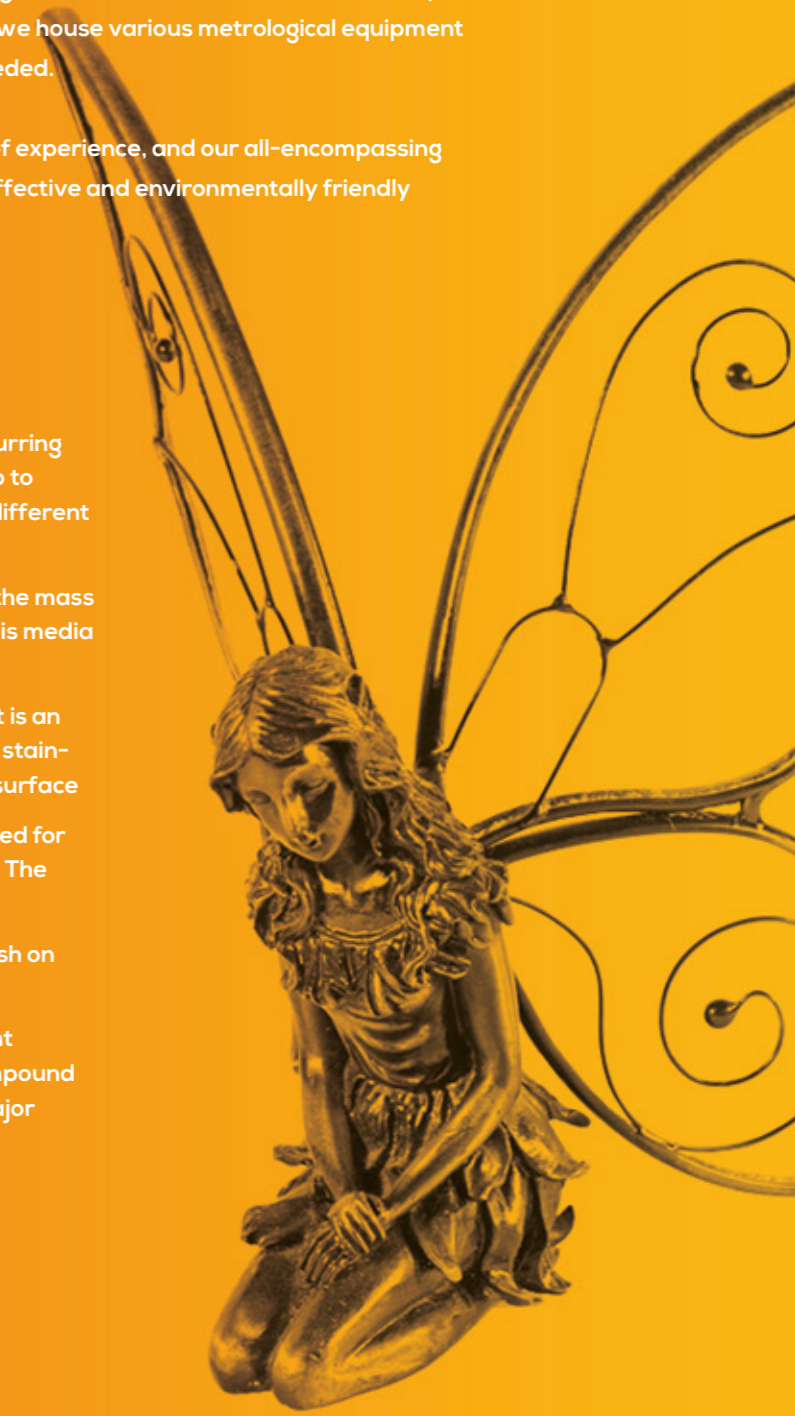
We are continually evolving our processes and machines, making them more effective.

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.

Recommended Consumables for the Fashion 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
- Porcelain media, which is ideal for removing oxidation and the mass residuals 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 polishing 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 best seller in the jewellery industry, being used by major manufacturers, jewellers and goldsmiths 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.

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Component	Output Required	Machine Type	Media Type			Compound Type		Typical Process Time
			Deburring Media	Polishing Media	Drying Media	Deburring	Polishing	
Decorative Ornament	Burnish				○			240 mins
Earring Studs	Cleaning and Polishing						○	120 mins
Gold Bracelet	Bright Polishing			○	○		○	240 mins
Silver Pendant	Deburring and Polishing	 OR 	○		○	○	○	300 mins
Hair Clips	Deburring and Smooth Finish		○			○		360 mins
Aluminium Rivets	Polishing				○			15 mins
Silver Ring	Deburring and Polishing		○	○		○	○	30 mins
Silver Brooch	Bright Polishing			○	○		○	180 mins
Aluminium and Brass Eyelets	Deburring and Polishing				○			60 mins
Stainless Steel Bracelets, Tie Clips, Badges, Earrings and Desk Toys	Polishing			○				120 mins
Cufflinks	Polishing			○				60 mins
Pewter Jewellery	Polishing			○				30 mins

VBIS and HD3000 System

This system is ideally suited for small batch works and delicate components and can be used as either a batch or a continuous system. The VBIS and the HD3000 are perfect for the cleaning, deburring, polishing and drying of small jewellery pieces, prototypes or complex work pieces, eliminating the huge drain on labour that manual polishing has on delicate and intricate parts.

A brief guide on how the system works:

Simply insert the parts in the VBIS machine and then process these with a specially formulated media and compound. This process results in a clean, deburred and polished finish of the jewellery. The parts are then transferred into the HD3000 machine in the preheated work chamber - for drying and polishing. The dust free agro product, used in the HD3000, is an excellent moisture absorbent media which also produces a stain free polish effect.

Key Benefits

- ✓ Great for removing casting skins or emery traces
- ✓ Due to media used in the VBIS machine, no orange peel effect appears on the component
- ✓ Minimum removal of material and no damaging of stone sets such as diamonds, pearls or cubic zirconia (in the HD3000)
- ✓ Reliable and repeatable finish each time
- ✓ Ensures high quality cleaning and polishing of parts
- ✓ Burnish tarnished or worn jewellery
- ✓ Very quiet system in operation due to the acoustic lid
- ✓ No splashing of water, compound or foam due to acoustic lid
- ✓ Easy to operate
- ✓ Low maintenance
- ✓ Cost and time saving
- ✓ British high quality product
- ✓ Durable machine due to design, good quality materials and workmanship knowledge

Key Features

- ✓ Wear-resistant casted hot cured polyurethane lining
- ✓ Unload door for complete discharge of media and parts
- ✓ Compact design
- ✓ HD3000 is mounted on castor wheels and can be moved with ease
- ✓ Removable tray to collect any media overspill (HD3000)
- ✓ Outlet for easy removal of used drying media (HD3000)
- ✓ Stainless steel side panels (HD3000)



Series	Model	Capacity		Overall dimensions in mm / inch			Chamber Dimension in mm / inch after lining			Max. Motor Rating (kW)	Number of Heaters	Total Heater Rating (kW)
		Cu. Ft.	Litres	Length	Width	Height	Length	Width	Height			
Bench-Mounted Series	VBIS	1	28	730 / 28.7	700 / 27.5	600 / 23.6	n/a	150 / 5.9	230 / 9.1	0.18	n/a	n/a
HD Series	HD3000	0.63	18	700 / 27.5	565 / 22.2	1000 / 39.4	Spiral	150 / 5.9	1000 / 39.4	0.44	1 off	1.0

Sizes indicated above are standard. Custom sizes can be manufactured to suit specific applications. Dimensions are subject to change due to design improvements. Please refer to our product brochures to see our complete range of products and accessories.

HT2

The machine is suitable for cleaning, deburring and polishing of small and medium sized parts such as buckles, badges, bag handles, decorative ornaments or jewellery. The HT2 machine has been designed to be simple to operate and highly efficient.

A brief guide on how the system works:

Parts are manually inserted into the machine and then tumbled using a mix of media, water and compound. In effective time, parts are burnished and any tarnished components look bright and new. Periodic usage of the process results in parts looking presentable at all times.

Key Benefits

- ✓ Great for removing casting skins or emery traces
- ✓ Due to media used in the machine no orange peel effect appears on the component
- ✓ Reliable and repeatable finish each time
- ✓ Ensures high quality cleaning and polishing of parts
- ✓ Burnish tarnished or worn jewellery
- ✓ Very quiet in operation due to acoustic lid (noise level 65 db; this can vary based on process parameters)
- ✓ No splashing of water, compound or foam due to acoustic lid
- ✓ Easy to move around as it is mounted on castor wheels
- ✓ Easy to operate
- ✓ Low maintenance
- ✓ Cost and time saving
- ✓ British high quality product
- ✓ Durable machine due to design, good quality materials and workmanship knowledge

Key Features

- ✓ Single phase connectivity
- ✓ Runs on a standard 16A socket, 1 phase, 240V AC supply
- ✓ Wear-resistant polyurethane lining
- ✓ Compact design
- ✓ Low profile for portability and storage
- ✓ The dosing pump can output 10L / h and is accessible by an access hatch at the rear of the machine
- ✓ Independent recirculation system and integrated water filtration. The tank maximum capacity is 30L. It is recommended that only 25L of water and compound be premixed
- ✓ Drive system with sealed bearings for maintenance-free running



Series	Model	Capacity		Overall Dimensions in mm / inch			Chamber dimension in mm / inch after lining			Max. Motor Rating (kW)
		Cu. Ft.	Litres	Length	Width	Height	Length	Width	Height	
HT Series	HT2	2	60	825 / 32.5	725 / 28.5	971 / 38.2	575 / 22.6	395 / 15.5	368 / 14.5	0.34 / 0.50

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Bowl and Drier Finishing System

This system was designed for the deburring, polishing and drying of medium to large parts batches. The system is automated, ensuring minimum operator intervention and guaranteeing consistent results.

A brief guide on how the system works:

Jewellery is loaded into the parts feeder tray, which directs the parts into the bowl finishing machine. The jewellery is deburred and cleaned using a mix of media, compound and water. The machine drain was specially designed to ensure that no small pieces of jewellery are lost in the finishing process.

The separation in the bowl machine is achieved via a mechanical flap arrangement, which directs the media and components onto a separation grid. The grid has openings, which allow the media to return into the bowl and components are transferred into the drier via the side loading chute.

The jewellery is then dried and polished in the unique, elliptical-shaped vibratory drier using ActOn's specially

Key Benefits

- ✓ Great for removing casting skins or emery traces
- ✓ Due to media used in the bowl machine no orange peel effect appears on the component
- ✓ Reliable and repeatable finish each time
- ✓ Ensures high quality cleaning and polishing of parts
- ✓ Burnish tarnished or worn jewellery
- ✓ 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
- ✓ Very quiet in operation due to acoustic lid
- ✓ No splashing of water, compound or foam due to acoustic lid
- ✓ Easy to operate
- ✓ Low maintenance
- ✓ Low space requirement
- ✓ Cost and time saving
- ✓ Energy efficient
- ✓ British high quality product
- ✓ Durable machine due to design, good quality materials and workmanship knowledge

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formulated dust-free, heated agro media. This product is an excellent moisture absorbent media which also produces a stain-free polish effect.

Post-processing, all the parts are collected from the discharge chute of the drier into the portable unload cabinet. This cabinet can store up to 3 trays and is mounted on wheels to make it easily transferable. This 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.

For a burnished finish, the S series machine can be replaced with a B series machine. These machines are designed to suit this heavy duty application with a powerful drive system and special springs. The bowl has a special rubber lining to assist the movement of the parts during the process. For the burnished finish, we recommend using ActOn's Stainless Steel media or burnishing media mix.

Key Features

- ✓ Wear-resistant casted hot cured polyurethane lining (bowl machine)
- ✓ Powerful drive system with sealed bearings for maintenance-free running
- ✓ 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 if required
- ✓ A customised chute is built into the bowl machine which is underneath the separation grid. This ensures the parts are travelling a complete lap as a 1 lap process
- ✓ 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



Series	Model	Capacity		Overall Dimensions in mm / inch			Chamber Dimension in mm / inch after lining		Max. Motor Rating (kW)
		Cu. Ft.	Litres	Length	Width	Height	Width	Height	
S Series	VB3S	3	85	1130 / 44.5	900 / 35.4	1080 / 42.5	250 / 9.8	290 / 11.4	2.2
	VB5S	5	142	1455 / 57.3	1150 / 45.3	1175 / 46.3	230 / 9.1	350 / 13.8	2.2
	VB10S	10	283.5	1690 / 66.5	1475 / 58.1	1235 / 48.6	330 / 13	515 / 20.3	4
	VB20S	20	567	2070 / 81.5	1750 / 68.9	1270 / 50	365 / 14.4	515 / 20.3	7

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Series	Model	Capacity		Overall Dimensions in mm / inch			Chamber Dimension in mm / inch after lining		Max. Motor Rating (kW)	Number of Heaters	Total Heater Rating (kW)
		Cu. Ft.	Litres	Length	Width	Height	Width	Height			
VBD Series	VBD3	3	85	1200 / 47.2	950 / 37.4	980 / 38.5	280 / 11	300 / 11.8	1.2	2 off	2
	VBD6	6	170	1650 / 64.9	1315 / 51.7	1000 / 39.4	260 / 10.2	335 / 13.2	2.2	3 off	3
	VBD12	12	340	2000 / 78.7	1620 / 63.7	980 / 38.5	365 / 14.4	370 / 14.6	4	3 off	3
	VBD24	24	679	2615 / 102.9	1930 / 75.9	1150 / 45.3	392 / 15.4	425 / 16.7	7	6 off	6

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Series	Model	Capacity		Overall Dimensions in mm / inch			Chamber Dimension in mm / inch after lining		Max. Motor Rating (kW)
		Cu. Ft.	Litres	Length	Width	Height	Width	Height	
B Series	VB3S B	3	85	1130 / 44.5	900 / 35.4	1080 / 42.5	250 / 9.8	290 / 11.4	2.2
	VB5S B	4.4	125	1455 / 57.3	1150 / 45.3	1075 / 42.3	230 / 9.1	250 / 9.8	2.2
	VB10S B	10	240	1690 / 66.5	1475 / 58.1	1170 / 46.1	330 / 12.9	465 / 18.3	4
	VB20S B	20	500	2070 / 81.5	1750 / 68.9	1200 / 47.2	365 / 14.4	465 / 18.3	7

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Trough Finishing System

We offer troughs in many different sizes and an infinite choice of length and width combinations, making them one of our most versatile ranges. These are particularly useful for larger components such as buckles, bracelets, pendants or bag handles. Trough machines are also great for processing large volumes of components.

A brief guide on how the system works:

The parts are inserted in the trough machine and then tumbled with specially formulated media and compound.

Key Benefits

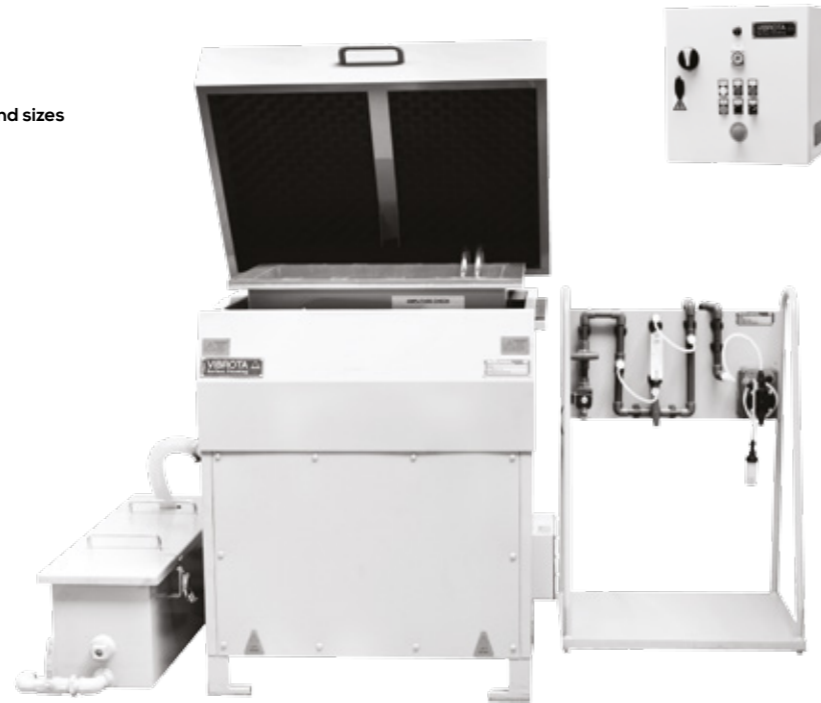
- ✓ Great for removing casting skins or emery traces
- ✓ Reliable and repeatable finish each time
- ✓ Ensures high quality cleaning and polishing of parts
- ✓ Burnish tarnished or worn parts
- ✓ Systems can be built for continuous operation
- ✓ Ability to handle a wide range of parts with different shapes and sizes
- ✓ Very quiet in operation due to acoustic lid
- ✓ No splashing of water, compound or foam due to acoustic lid
- ✓ Easy to operate
- ✓ Low maintenance
- ✓ Low space requirement
- ✓ Cost and time saving
- ✓ Energy efficient
- ✓ British high-quality product
- ✓ Durable machine due to design, good quality materials and workmanship knowledge
- ✓ Easily automated

Key Features

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

The compound is dosed in through the dosing unit. This ensures parts are clean and give an extended life of media and machine work chamber. Once the parts have been processed, they are unloaded manually from the work chamber. A settlement tank is connected to the drain of the finishing machine and the effluent is discharged from the vibratory machine into this tank.

This process results in a bright burnish finish of the parts. For a stain free finish, a HD series or VBD series drier can be connected to the finishing machine.



Series	Model	Capacity		Overall Dimensions in mm / inch			Chamber Dimension in mm / inch after lining			Max. Motor Rating (kW)
		Cu. Ft.	Litres	Length	Width	Height	Length	Width	Height	
TU Series	TU3	3	85	1000 / 39.4	850 / 33.5	1085 / 42.7	575 / 22.6	370 / 14.5	445 / 17.5	0.95
	TU4	4	113	1225 / 48.2	850 / 33.5	1085 / 42.7	800 / 31.5	370 / 14.5	445 / 17.5	1.2

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Dual Finishing System

The dual finishing system is a space-saving option which includes a bowl finishing machine and a drier in one unit. The design integrates two process chambers: an inner chamber that can be used for wet process application, and the outer chamber for dry process applications, both of which make it easier to control. The dual finishing system is ideal for cleaning, deburring, polishing and drying small to medium sized components.

A brief guide on how the system works:

The inner chamber has a hot cured polyurethane lining and can be used for deburring, cleaning and polishing. A special mix of media, compound and water is used.

Key Benefits

- ✓ Can be used for a range of applications such as cleaning, deburring, polishing and drying
- ✓ Great for removing casting skins or emery traces
- ✓ Reliable and repeatable finish each time
- ✓ Ensures high quality cleaning and polishing of parts
- ✓ Burnish tarnished or worn parts
- ✓ Suited to small and large volumes of parts
- ✓ Takes less floor space as it combines polishing and drying within one machine
- ✓ Effective as a 1 lap process
- ✓ Ability to handle a wide range of parts with different shapes and sizes
- ✓ Very quiet in operation due to acoustic lid
- ✓ No splashing of water, compound or foam due to acoustic lid
- ✓ Easy to operate
- ✓ Low maintenance
- ✓ Low space requirement
- ✓ Cost and time saving
- ✓ Energy efficient
- ✓ British high quality product
- ✓ Durable machine due to design, good quality materials and workmanship knowledge
- ✓ Easily automated

Key Features

- ✓ Wear resistant casted hot cured polyurethane lining
- ✓ Single and variable speed drive
- ✓ Powerful drive system with sealed bearings for maintenance-free running
- ✓ Compact design
- ✓ Unload door for complete discharge of media and parts

Once parts have been processed, they are transferred to the outer chamber via the separation screen. The components are then dried using ActOn's specially formulated and heated, dust-free agro media. This product is an excellent moisture absorbent media which also produces a stain free polish effect. The heated outer chamber can be used for drying, cleaning or polishing.

Parts are then unloaded from the machine via the outer chamber separation screen.



Series	Model	Bowl Capacity		Overall Dimensions in mm / inch			Process Chamber Dimensions in mm / inch after lining		Drier Chamber Dimensions in mm / inch		Max. Motor Rating (kW)	Number of Heaters	Total Heater Rating (kW)
		Cu. Ft.	Litres	Length	Width	Height	Width	Height	Width	Height			
Dual Machine	Dual 3+3	3+3	85+85	1430 / 56.3	1240 / 48.8	1100 / 43.3	250 / 9.8	290 / 11.4	155 / 6.1	240 / 9.4	2.2	2 off	15x2
	Dual 5+5	5+5	142+142	1830 / 72	1500 / 59.1	1080 / 42.5	230 / 9.1	335 / 13.2	180 / 7.1	205 / 8.1	2.2	2 off	2x2

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SPU- 1 Vibratory Finishing System

This Single Portable Unit is ideally suited for small batch works and delicate components and 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.

A brief guide on how the system works:

Simply insert the parts in the VB1S machine and then process these with a specially formulated media and

Key Benefits

- ✓ British built high-quality product
- ✓ Efficient in operation
- ✓ Quiet in operation
- ✓ Operator friendly controls
- ✓ Low maintenance
- ✓ Manual / Auto functionality
- ✓ Customised to suit user applications
- ✓ Independent recirculation system and integrated water filtration. The tank maximum capacity is 30L.

Key Features

- ✓ Portable unit.
- ✓ Built in compound recirculation system.
- ✓ Water/compound can be filled from the side of the machine.
- ✓ Speed control.
- ✓ Available in 3 phase and 1 phase.
- ✓ Includes storage area.
- ✓ Wear-resistant casted hot cured polyurethane lining (VB1S). Compact design.



compound. Once the wet finishing process is completed, the parts are then transferred into the VBD1S machine in the preheated work chamber to be dried. The dust free agro product, used in the VBD1S, is an excellent moisture absorbent media which also produces a stain free polished effect on parts. Components are then unloaded from the machine via the separation screen.

Model	Capacity		Overall Dimensions in mm / inch			Chamber Dimension in mm / inch (after lining)		Max Motor Rating (kW)
	Cu. Ft.	Litres	Length	Width	Height	Width	Height	
VB1S	1	28	800 / 31.5	700 / 27.5	600 / 23.6	150 / 5.9	230 / 9.1	0.18

Model	Capacity		Overall Dimensions in mm / inch			Chamber Dimension in mm / inch (After Lining)		
	Cu. Ft.	Litres	Length	Width	Height	Length	Width	Height
VBD1	0.715	20	600 / 23.6	500 / 19.7	500 / 19.7	300 / 11.8	97 / 3.8	150 / 5.9

Model	Max Motor Rating (kW)	Number of Heaters	Total Heater Rating (kW)	Single Portable Unit Overall Dimensions in mm / inch			Full Unit Weight (kg)
				Length	Width	Height	
VBD1	0.18	1	0.5	1400 / 55.1	850 / 33.5	1720 / 67.7	240

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Centrifugal Polishing Machines

Built with the latest high energy technology, it has a direct drive system with counter rotating turrets and barrels. Typically used for small and delicate jewellery pieces, these machines can produce a higher brightness than vibratory machines, in a shorter period of time.

A brief guide on how the system works:

Parts are loaded manually into the barrels along with the media, compound and water. Barrels are then positioned

in the machines and the door is locked using the interlocking safety switch. The drive mechanism produces a high 'g' force which enables the part being finished in a short time.

After parts are processed, the barrels are removed from the centrifugal polishing machine and the operator releases the pressure accumulated via the pressure release system. The parts, media and compound mix can now be unloaded manually.

Key Benefits

- ✓ High polishing efficiency
- ✓ Great for deburring, cleaning, polishing and removing casting skins or emery traces
- ✓ Ideal for processing smaller and delicate parts
- ✓ Reliable and repeatable finish each time
- ✓ Very quiet machine in operation
- ✓ Greater control of the process
- ✓ No need for fixturing or tooling
- ✓ Mobile unit as it is mounted on castor wheels
- ✓ Storage space for spare barrels and consumables
- ✓ Compact design, space saving machine
- ✓ Fast processing times
- ✓ No impingement
- ✓ Easy to operate
- ✓ Low maintenance
- ✓ Low space requirement
- ✓ Cost and time saving
- ✓ Energy efficient
- ✓ British high quality product

Key Features

- ✓ Removable barrels
- ✓ Removable liners
- ✓ Stainless steel barrels
- ✓ Circular or hexagonal barrels
- ✓ PLC operated with HMI
- ✓ Single phase
- ✓ Portable
- ✓ Variable speed



Model	Capacity		Number of Barrels	Barrel Shape	Overall Dimensions in mm / inch			Barrel Size in mm / inch (with liners fitted)		Max. Motor Rating (kW)	Max Barrel Speed (RPM)
	Cu. Ft.	Litres			Length	Width	Height	Hexagonal Barrel	Circular Barrel		
								Width x Length	Diameter x Length		
CPM10	0.35	10	4	Hexagonal or Circular	1080 / 42.5	875 / 34.4	1700 / 66.9	136 x 129 / 5.4 x 5.1	157 x 129 / 6.2 x 5.1	11	225

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Centrifugal Disc Finishing System

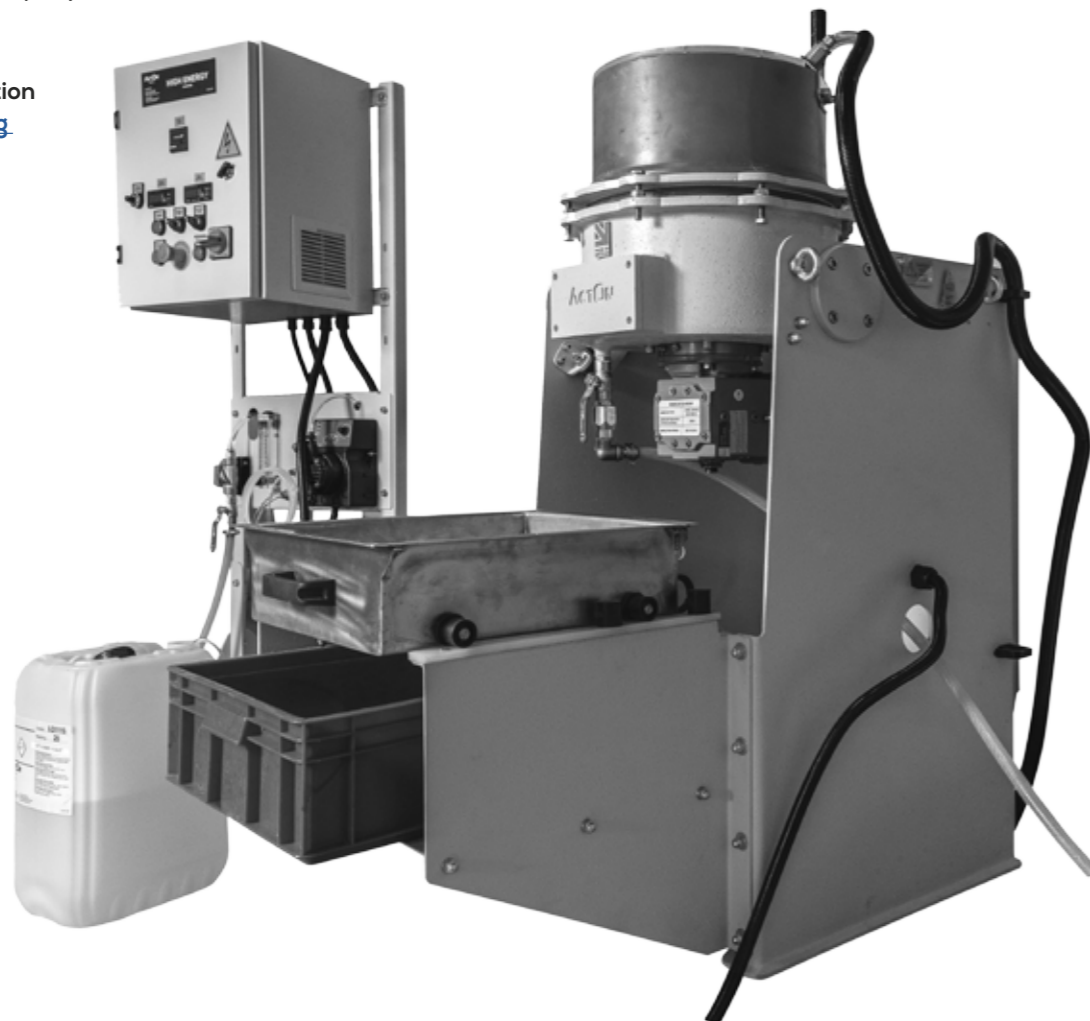
This ActOn Disc Finishing system is unique in design and meets the highest standards required by the fashion industry. The design allows continuous output: while the finished batch of parts are separated from media and discharged, a new batch is being processed in the disc finishing machine.

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

For further technical information please check our [Disc Finishing Brochure](#).



DLyte Polishing Machines

The DLyte® machine achieves high quality finishing for machined, sintered and casting parts, obtaining a mirror finish result. The polishing action reaches every corner of the piece, so it can process inner cavities which can not be accessed mechanically.

Key Benefits

- ✓ Maximum size per piece permitted for each model: 180 Ø x 80mm
- ✓ Programmable cycle time.
- ✓ Automatic parameter adjustment.
- ✓ Automatic media conductivity adjustment
- ✓ Storage capacity for X process configurations.
- ✓ Variable motors speed & movement.
- ✓ Digital interface.
- ✓ Customizable settings.
- ✓ Process data can be loaded/ unloaded onto external USB storage drive.
- ✓ Ergonomic loading and unloading of holder.
- ✓ Quick and easy change of media.
- ✓ Anti-vibratory support with wheels for easy handling.
- ✓ Easy and low maintenance costs.
- ✓ Very low noise emissions thanks to the acoustic insulation system.
- ✓ No dust emission.
- ✓ Very low gas emissions.
- ✓ CE certificate.

Key Features

- ✓ Fully automatic polishing to a mirror finish in one step.
- ✓ Homogeneous polishing across the entire surface of the piece is the main advantage compared to mechanical polishing.
- ✓ Respect of tolerances and preservation of initial shape, even cutting edges.
- ✓ Increases resistance to corrosion.
- ✓ No contamination on the surface and no traces of hydrogen on the surface.
- ✓ Achieves negative surface skewness (rsk) which increases the surface bearing contact area (allowing uniform lubricant film distribution).
- ✓ Controlled costs and predictable lead times.
- ✓ Doesn't generate grinding texture patterns, improving resistance to part wear and fracture resistance, improving the bearing ratio, an improving fatigue resistance.
- ✓ The ability to process complex geometries
- ✓ Ra under 0,09 micrometers
- ✓ Allows for easy processing of channels and cavities.

For further technical information please check our [DLyte Brochure](#).



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 fashion industry.

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

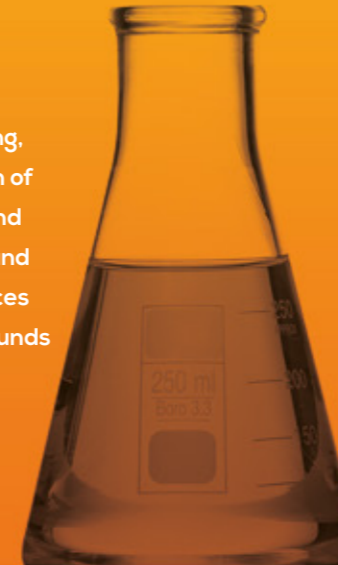
Choosing the right consumables is crucial in achieving your desired finish, and we endeavour to help you to select the correct media and compounds for your components.

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.



Results

Pewter Bangles and Jewellery Box

Bright polished finish.

The Aim

To deburr and obtain a bright polished finish.

What we did

The first stage was carried out to remove the burrs resulting from the casting process. This process was carried out in ActOn's vibratory bowl finishing machine.

For the polished finish, components have been processed in the vibratory bowl finishing machine using ActOn's polishing media and compound. The polishing media is great for burnishing without damaging the geometry of the parts, while the compound has been specially formulated for polishing and brightening the surface. P6 powder was further added to enhance the brightness.

To avoid staining on the component's surface, and to ensure the bright polish finish is maintained for a longer period, the parts were dried using ActOn's agro-media. This product has a good moisture absorption rate and it ensures parts are clean, dried and polished.

The Result

The process delivered a superior surface finish in a considerably reduced time and the dimensional integrity of the components was maintained. All burrs were removed and a bright, polished finish was achieved on all parts.

Results

Stainless Steel Jewellery

Mirror polished finish.

The Aim

To develop a cost-effective process to achieve a mirror polish finish on stainless steel jewellery. The finishing process also implied barrelling 300 pieces per batch.

What we did

We achieved the final finish in a 2-stage process:

To achieve a smooth surface free from burrs we finished the jewellery using our DTB series (perfect for heavy duty applications such as burnishing) and a mix of a medium abrasive plastic media, a polishing compound and water.

For the mirror polished effect the pendants were in high density polishing media, using LO9 compound, a specially formulated brightening and polishing compound. This compound is one of our best-selling products for polishing processes and is used by jewellers, goldsmiths and mid-sized manufacturers in the fashion industry.

The Result

Our finishing process enabled our customer to process 300 parts in approx. 3 hours. This has improved considerably the time our client was spending on polishing the pendants.

The process delivered a superior mirror polished finish while the dimensional integrity of the parts was maintained.

This finishing process can be replicated on other pieces of jewellery made by the client.



before



after

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

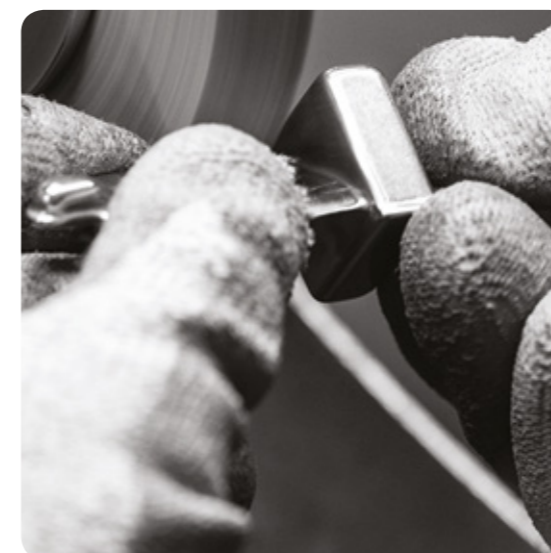
High Energy and Vibratory Finishing Services

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

we redefine

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