

we redefine

Cutlery & Tableware



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

We understand the importance of high quality, cleaned and polished cutlery and tableware in the hospitality 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 prestigious hotels, clubs and kitchen corporates worldwide.

Depending on our customers' requirements, we can offer a wide range of finishing equipment such as compact portable units for drying and polishing cutlery, larger finishing machines for cleaning and burnishing of larger batches of parts or larger components, and automated finishing systems for cleaning, burnishing and drying of components.

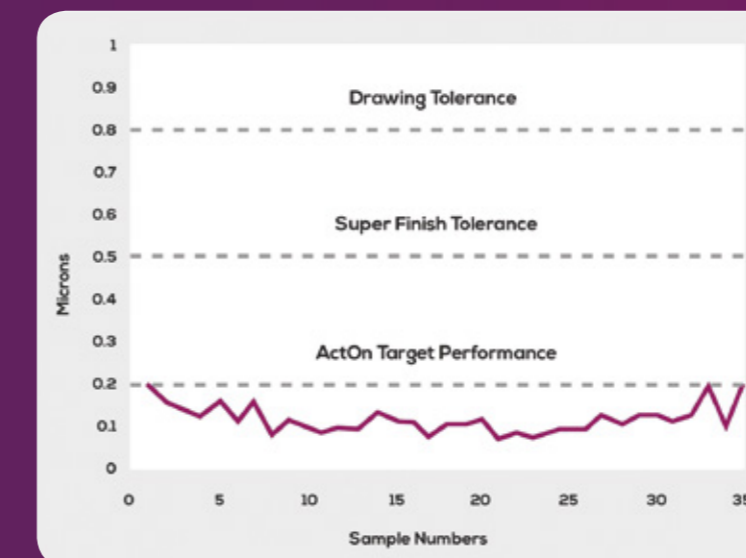


ActOn Research and Development

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.





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	
Cutlery	Burnish	Bowl and Drier / Trough and Drier		○	○		○	up to 30 mins
Sauce Jug	Burnish	Bowl and Drier		○	○		○	up to 30 mins
Trophies	Burnish	Trough		○			○	up to 30 mins
Tea Pot	Burnish	Bowl or Trough		○			○	up to 30 mins
Bread Basket	Burnish	Bowl or Trough		○			○	up to 30 mins
Napkin Ring	Burnish	Bowl or Trough		○			○	up to 30 mins
Pans and Pots	Polishing	Bowl or Trough		○	○		○	up to 60 mins
Ceramic Plates and Bowls	Smoothing	Bowl	○				○	1 lap
Kitchen Fittings	Polishing	Bowl or High Energy		○			○	up to 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 cleaning, polishing and drying cutlery or other small tableware, eliminating the huge drain on labour that manual polishing has on tarnished components.

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 and polished finish of the cutlery. The parts are then transferred into the HD3000 machine in the preheated work chamber - for effective, single lap drying. The dust free agro product, used in the HD3000, is an excellent moisture absorbent media which also produces a stain free polish effect on cutlery.

Key Benefits

- ✓ Ensures high quality cleaning and polishing of parts
- ✓ Burnish tarnished parts
- ✓ Reliable and repeatable finish each time
- ✓ Very quiet system in operation due to the acoustic lid
- ✓ No splashing of water, compound or foam due to acoustic lid
- ✓ Can polish / dry up to 3000 pieces of cutlery
- ✓ The HD3000 includes a UV lamp for sanitisation of the cutlery
- ✓ 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)



HT2

The machine is suitable for small and medium sized components. 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 polishing media and a mix of 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

- ✓ Ensures high quality cleaning and polishing of parts
- ✓ Burnish tarnished parts
- ✓ Reliable and repeatable finish each time
- ✓ 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)	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.

Series	Model	Capacity		Overall Dimensions in mm / inch			Chamber dimension in mm / inch after lining			Max. Motor Rating (kW)	Approx. Processing Capacity (parts / batch)*
		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	400

* This applies for processing cutlery only. 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.

Bowl and Drier Finishing System

This system was designed for the polishing and drying of cutlery. The system is automated, ensuring minimum operator intervention and guaranteeing consistent results.

A brief guide on how the system works:

Cutlery is loaded into the parts feeder tray, which directs the parts into the bowl finishing machine. The cutlery is cleaned using a mix of media, compound and water.

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 cutlery is then dried in the unique elliptical-shaped vibratory drier using ActOn's specially 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.

Key Benefits

- ✓ Ensures high quality cleaning and polishing of parts
- ✓ Burnish tarnished parts
- ✓ Bowl can also be used to deburr parts
- ✓ 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
- ✓ Reliable and repeatable finish each time
- ✓ The system can work on the basis of a continuous feed of components
- ✓ 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

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)	Approx. Processing Capacity (parts / batch) *
		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	Up to 450
	VB5S	5	142	1455 / 57.3	1150 / 45.3	1175 / 46.3	230 / 9.1	350 / 13.8	2.2	Up to 1000
	VB10S	10	283.5	1690 / 66.5	1475 / 58.1	1235 / 48.6	330 / 13	515 / 20.3	4	Up to 1200
	VB20S	20	567	2070 / 81.5	1750 / 68.9	1270 / 50	365 / 14.4	515 / 20.3	7	Up to 2200

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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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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 trophies, tea pots, pans or bread baskets.

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. 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.

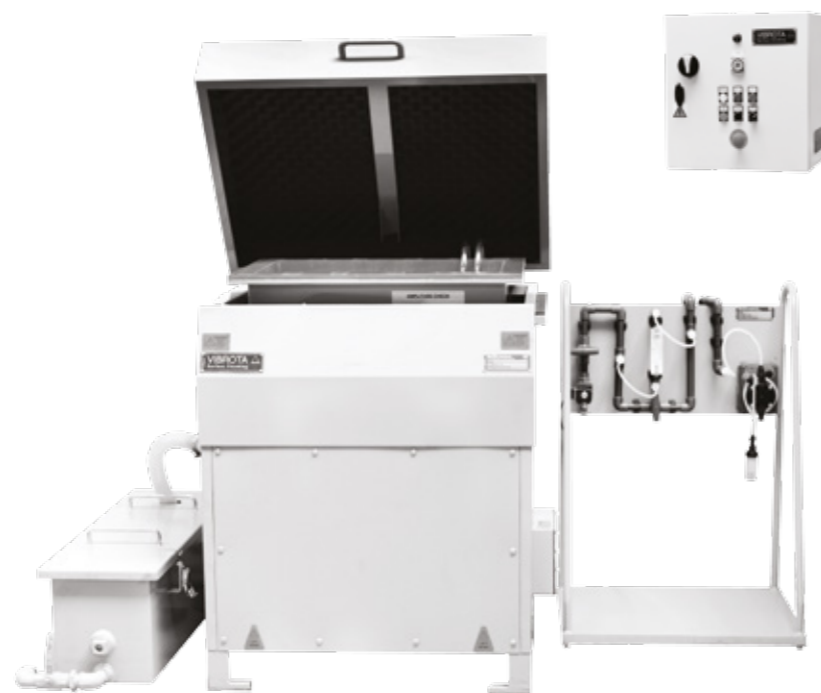
This process results in a bright burnish finish of the parts. For a stain free finish, a HD series or VBD series drier can be connected to the finishing machine.

Key Benefits

- ✓ Ensures high quality cleaning and polishing of parts
- ✓ Burnish tarnished parts
- ✓ Can be used to deburr parts
- ✓ Ideally suited for larger tableware
- ✓ Suited to small and large volumes of parts
- ✓ Very quiet in operation due to acoustic lid
- ✓ No splashing of water, compound or foam due to acoustic lid
- ✓ Reliable and repeatable finish each time
- ✓ Simple to operate and highly efficient
- ✓ British high-quality product
- ✓ Durable machine due to design, good quality materials and workmanship knowledge
- ✓ Low maintenance
- ✓ Systems can be built for continuous operation
- ✓ 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



Series	Model	Capacity		Overall Dimensions in mm / inch			Chamber Dimension in mm / inch after lining			Max. Motor Rating (kW)	Approx. Processing Capacity (parts / batch) *
		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	Up to 450
	TU4	4	113	1225 / 48.2	850 / 33.5	1085 / 42.7	800 / 31.5	370 / 14.5	445 / 17.5	1.2	Up to 600

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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, polishing and drying cutlery and small to medium tableware.

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.

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.

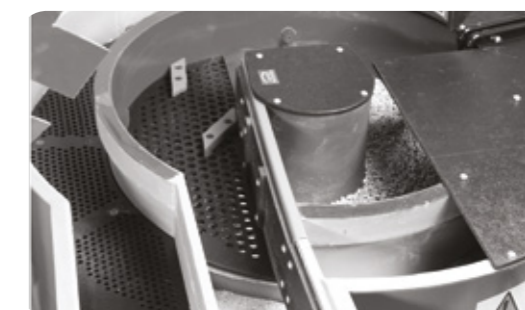
Cutlery is then unloaded from the machine via the outer chamber separation screen.

Key Benefits

- ✓ Can be used for a range of applications such as cleaning, polishing, drying or deburring
- ✓ Ensures high quality cleaning and polishing of parts
- ✓ Burnish tarnished 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
- ✓ Reliable and repeatable finish each time
- ✓ Simple to operate and highly efficient
- ✓ British high-quality product
- ✓ Durable machine due to design, good quality materials and workmanship knowledge
- ✓ Low maintenance
- ✓ Cost and time saving
- ✓ Energy efficient

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



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)	Approx. Processing Capacity (parts / batch) *
		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	1.5x2	Up to 450
	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	Up to 1000

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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 VBIS 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 (VBIS). 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.

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 tableware or exterior fittings, these machines can produce a higher brightness than vibratory machines.

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
- ✓ Can be used for a range of applications such as cleaning, polishing or deburring
- ✓ Ideal for processing smaller and delicate parts
- ✓ 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
- ✓ Operator friendly
- ✓ Cost and time saving
- ✓ Energy efficient

Key Features

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



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	
VBIS	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)	
VBD1	0.18	1	0.5	Length	Width	Height		
				1400/55.1	850/33.5	1720/67.7	240	

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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 Width x Length	Circular Barrel 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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[Click here to request a Quotation today!](#)

Rental and Leasing

All types of ActOn finishing systems can be offered for rental or leasing. Please contact our sales representatives to discuss your requirements.

Benefits

- ✓ Training for your staff
- ✓ Service available in 24 hours
- ✓ No hidden costs
- ✓ Renting ActOn finishing machines can give more flexibility as there is no capital outlay, making it tax efficient
- ✓ Ideal for use in the short term or long term
- ✓ Maintenance carried out every six months (the cost is included in the rental price)
- ✓ Rental pack includes installation and servicing
- ✓ Enables you to easily upgrade the equipment when your requirements change
- ✓ All consumables are included

Cost Calculator

By using ActOn's systems in the hospitality industry, we can guarantee that, not only will the parts be finished to a high standard, you'll also save time and money. See below for examples on how much you can save per year using ActOn solutions:

Staff wage / hour (including national insurance, holidays, etc.)	£12
Amount of cutlery to be processed / day	1200
Time spent by staff to polish the cutlery by hand / day (hours)	2
Time spent by staff to polish 1 item by hand (seconds)	6
Total cost to polish the cutlery by hand / day	£24
Time spent to polish 1 item using ActOn's finishing machine (seconds)	0.40
Total cost of media and compound used / day	£1
Equipment rental cost / day	£6
Daily savings	£17
Yearly savings	£6205

The above cost calculation applies when using the HT2 machine. Contact our sales representatives to find out more about the savings for other finishing systems.

One employee can usually polish between 500 and 600 pieces of cutlery per hour. In the same time, our HD3000 finishing machine can process 3000 to 3500 pieces of cutlery in 1 hour. This time will be better spent by your employees in other areas such as collecting orders or serving tables, while our machine is carrying out the finishing job. Our machine will not only save you the time spent on polishing the cutlery and tableware by hand, but also the money spent on labour and material required to polish.



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 hospitality industry.

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

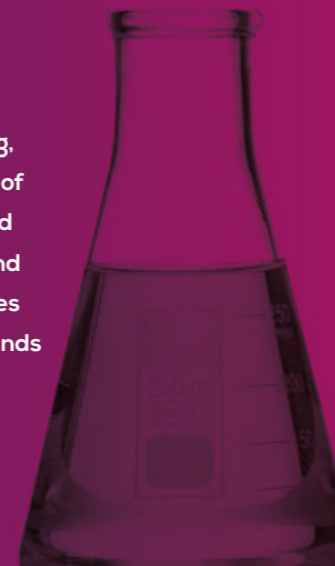
Choosing the right consumables is crucial in achieving your desired finish, and we endeavour to help you to select the correct media and compounds for your components.

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

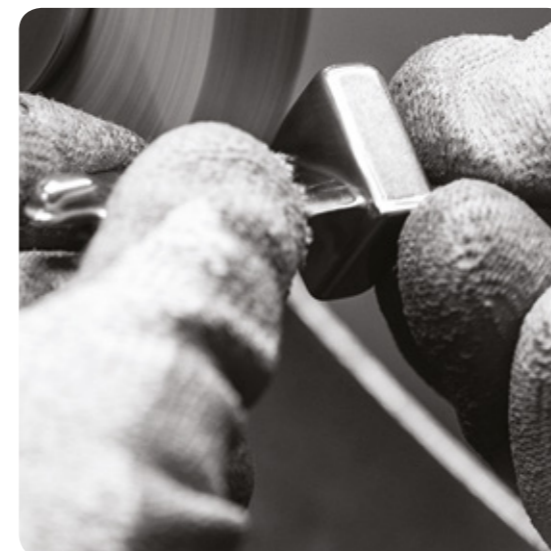
High Energy and Vibratory Finishing Services

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!

Results

Silver cutlery

New Burnishing Techniques

This independent case study has been conducted by ActOn Finishing in partnership with Arthur Price and Cutlery and Allied Trades Research Association (CATRA), to determine the amount of silver plating removed from silver cutlery through the burnishing process.

Samples tested

Silver plated cutlery was used to measure the silver-plating thickness before & after the vibratory finishing process. Samples provided included:

- ✓ 1 new & unused teaspoon
- ✓ 1 new & unused tablespoon
- ✓ 1 new & unused dessert fork
- ✓ 1 new & unused fish knife
- ✓ 1 new & unused table knife
- ✓ 1 tarnished dessert knife

Measurement procedure

The plating thickness was measured using X Ray Fluorescence(XRF) techniques,at convenient flat locations, where accurate measurements could be taken non-destructively. The locations of measurements are indicated in *Picture 1 and consisted of:



Index	Cutlery Type	Location
A	Teaspoon	Bowl lower surface; surface contact point
B	Teaspoon	Handle lower surface; surface contact point
C	Tablespoon	Bowl lower surface; surface contact point
D	Tablespoon	Handle upper surface; near end
E	Dessert fork	Centre of tine; lower surface
F	Dessert fork	Handle lower surface; surface contact point
G	Fish knife	Centre of blade; lower surface
H	Table knife	Centre of handle; upper surface
I	Dessert knife	Centre of handle; upper surface

Details of test

Further to measuring the plating thickness, the cutlery was burnished for 20 hours at ActOn Finishing, using the Trough Finishing System and a mix of ActOn polishing media and liquid compound. ActOn troughs are available in many different sizes and an infinite choice of length and width combinations, making them one of ActOn's most versatile ranges.

The mix of polishing media and compound is ideal for removing oxidation and mass residual deposits and achieving a bright polished finish.

The result

- ✓ More silver plating was removed on the heavily tarnished dessert knife than on other items, due to the heavy tarnish which can be several microns thick and is more friable than the silver plating.
- ✓ Through vibratory finishing, 2.9 microns of silver plating have been removed on average from all the new and unused cutlery, in 20 hours.
- ✓ As a normal vibratory burnishing process takes 20 minutes, this test reproduced, in 20 hours, 60 normal procedures or 5 years at 1 cleaning finishing process per month.
- ✓ In 20 minutes an average of 0.05 microns of silver are removed through this burnishing process.
- ✓ After 200 cleaning procedures (16.7 years) 10 microns of silver plating would be removed.
- ✓ After 400 cleaning procedure (33.3 years) 20 microns of silver plating would be removed.
- ✓ The corner edges would probably suffer more removal of plating in practice.
- ✓ Also it is possible that heavily tarnished cutlery to suffer a faster removal rate of plating using vibratory burnishing process.
- ✓ ActOn's burnishing process is highly recommended as it causes minimal wear to the cutlery silver coating whilst keeping it bright for long periods.

Location of Measurement	Silver Plating Thickness (µm)		Plating removed (µm)
	Before Burnishing	After Burnishing	
A - Teaspoon	20.0	16.9	3.1
B - Teaspoon	23.0	21.2	1.8
C - Tablespoon	25.0	19.9	5.1
D - Tablespoon	32.3	26.5	5.8
E - Dessert fork	24.5	23.9	0.6
F - Dessert fork	21.5	20.5	1.0
G - Fish knife	24.7	22.0	2.7
H - Table knife	31.2	28.0	3.2
I - Dessert knife	36.4	27.5	8.9

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:



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

Benjamin Franklin

we redefine

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