

ACTON[®]
FINISHING

Surface Finishing Media

we redefine

Ceramic Finishing Media



We offer a range of Finishing Consumables to help our customers achieve the surface finish they need. We can cater to all your application requirements including deburring, degreasing & oil removal, cleaning, descaling, radiusing, smoothing and polishing. We will offer you full support every step of the way.

we redefine:

- Vibratory Finishing
- Consumables
- High Energy Finishing
- Precision Polishing
- Shot Blasting
- Subcontract Services

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About ActOn Finishing

ActOn Finishing is a leading expert in designing and developing the state-of-the-art machinery and mass finishing solutions of tomorrow.

Established in 1965 as a UK leading family business, we've worked hard to design, develop and manufacture a product of high British standard that will redefine your work. Our head office, subcontracting facility and machinery & consumables manufacturing facility are located in Coventry, U.K.

A Global Service

As a process driven business, we provide to our customers around the world, the most optimum cost-effective solutions to achieve their required standards in highly demanding markets. Our aim is to achieve customer satisfaction through continuous improvement in our approach and practices. We like to call it our Global Service.



Man x Machine x Media = M³

The thinking behind our finishing media.



Selecting the right media for your process

When selecting the media, you should consider the following factors:

1. Type

The media transmits the energy generated by the equipment to the parts being processed and are capable of heavy burr removal, edge radiusing to smooth and bright surfaces.

Ceramic Media is recommended for removing burrs, edge radiusing, burnishing and to quickly remove polishing lines on components made from harder materials.

Faster cut Medias are designed to be softer, thus allowing the cutting elements to be exposed.

Polishing Medias are harder (which contain no abrasives) and are used for burnishing. In general, the slower the cut, the harder the media.

2. Shape

When choosing the shape of the media it is important to consider the geometry of the part - hence any lodgement of media can be avoided and the part finish will be consistent.

A flat sided media, such as triangles, tri-stars, wedges and the end side of cones, can generate longer surface contact time on edges for deburring and radiusing. However, round shaped media, such as balls, cylinders and cones generate a single point contact concentrating energy in one small point, therefore producing more work in that area.

For components which have corners, holes and

slots both Tri-Star media and wedge media are recommended, minimising the possibility of media lodgement.

For surface improvement of hard to reach areas, an ellipse or cylinder shape can be considered.

3. Size

The component finish is also subject to the size of media chosen. A larger media will generate higher energy; hence it will cut and finish faster with higher wear rates. This is also recommended for processing larger parts.

A smaller media can hold more water and compound resulting in less part-on-part damage. Also, a smaller media has a gentler impact on part, which results in longer processing times, better finishes and less media wear.

Generally, media size has to be of a different size to the part to allow complete separation at the end of the finishing process. If media is larger than parts, then an inverse separation system can be used. For ferrous components, magnetic separation is also available.

4. Hardness

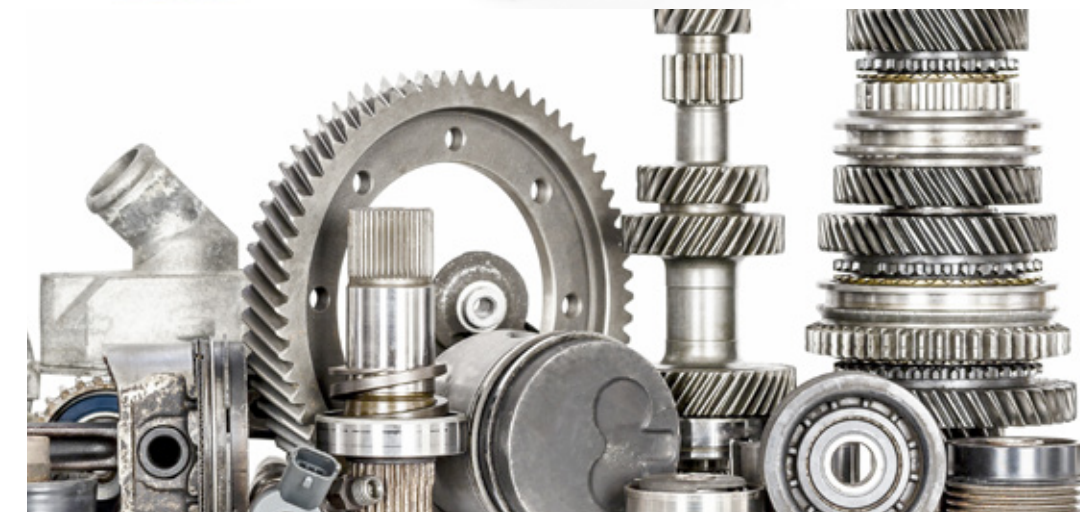
To avoid damaging the component, it is important to consider the part material and the hardness of the media. Ceramics are harder than plastic media, hence it may cause damage to soft materials.



Finishing Applications

- Deburring
- Descaling
- Degreasing
- Oil Removal
- Cleaning
- Smoothing

- Radiusing
- Brightening
- Polishing
- Drying
- Corrosion Protection



ActOn Ceramic Media

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

Working closely with highly skilled manufacturers, our Engineers understand the numerous challenges faced in the industry and have developed ceramic media accordingly. Our R&D department always sets high standards for the high quality media we produce.

ActOn ceramic media is manufactured at our facility in Kedah, Malaysia and it is subject to strict quality control to ensure our customers receive a high quality product everytime.

This type of media is manufactured by mixing an abrasive, such as aluminum oxide, silicon carbide or quartz, with a ceramic matrix in a wet state. The matrix (a damp clay) is extruded through various shaped dies and wire cut into small pieces. The preformed media is then fired at high temperatures through a kiln for up to 24 hours with precise heat up and cool down cycles. The ceramic pieces can then be pre-conditioned to remove any flash if required.

ActOn ceramic media comes in a wide range of sizes and shapes such as angle cut and straight cut triangles, angle cut and straight cut cylinders, star, tristar, ellipse, angle cut ellipse and arrow. The advantage of having such a wide range of shapes is that it allows you to achieve a consistent, highly homogeneous surface finish on parts with intricate shapes and contours.



Advantages of ActOn Ceramic Media

- Has a high strength and long wear ability
- Good value for money
- Ceramic media with no abrasive content is great for polishing and burnishing applications
- Great for removing heavy burrs, edge radiusing and for grinding components manufactured out of hard metals, like stainless steel, titanium or tungsten carbide.
- Quickly removes machining lines
- Quickly removes finishing lines
- Can be used to reduce surface roughness and obtain a smooth surface



[Contact us](#) to request your Quotation today!

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.

ActOn ceramic media has a high strength and long wearability, and it is recommended to process parts manufactured out of harder materials.

How to order with ActOn:

- 1 Choose grade
Example: ALC
- 2 Choose shape
Example: Angle Cut Triangle
- 3 Choose measurement
Example: 3X8

Special Ceramic Media Shape Available:

RT (Rounded Triangle). Please contact our sales representatives for further dimensions

For further dimensions and special types of media specific for your application, please contact our sales representatives.

The media grade is the product name. Based on the grinding performance and surface finish required, the appropriate grade must be chosen.

Media Grade	Grinding Performance	Surface Finish	Triangle		Cylinder																			
			ACT Angle Cut	SCT Straight Cut	ACC Angle Cut	SCC Straight Cut	S Star	TR Tristar	ACTR Angle Cut Tristar	E Ellipse	ACE Angle Cut Ellipse	AR Arrow	B Ball											
			a x b		a x b		a x b		a x b		a x b		a x b		a x c x b		a x c x b		a x b		a			
ALC	Low cut		3 x 8	10 x 20	3 x 3	10 x 20											8 x 3 x 8							
			4 x 4	12 x 4	3 x 8	13 x 13												8 x 3 x 9						
			4 x 10	13 x 13	4 x 4	13 x 26													10 x 5 x 10					
			4 x 13	13 x 26	4 x 10	15 x 15													10 x 5 x 15					
AMC	Medium cut		5 x 5	15 x 15	5 x 5	15 x 18											10 x 12 x 5							
			5 x 10	15 x 18	5 x 10	15 x 25												12 x 5 x 12	8 x 3 x 8					
			5 x 12	16 x 16	6 x 6	16 x 16												12 x 5 x 15	8 x 3 x 10					
			6 x 6	16 x 32	6 x 10	16 x 32												12 x 5 x 15	10 x 5 x 10					
			6 x 10	16 x 32	6 x 12	19 x 19												13 x 5 x 13	12 x 5 x 12					
			6 x 12	19 x 19	7 x 7	20 x 12												14 x 5 x 14	12 x 5 x 15					
			8 x 8	20 x 20	8 x 8	20 x 16												15 x 4 x 15	15 x 4 x 15	10 x 10				
			8 x 12	21 x 21	8 x 12	20 x 20												15 x 4 x 15	15 x 6 x 15	12 x 12				
			9 x 9	25 x 25	9 x 9	25 x 25												15 x 7 x 15	15 x 7 x 15	14 x 14				
			10 x 6	30 x 25	10 x 8	30 x 25												15 x 7 x 15	15 x 7 x 15	14 x 14				
AHC	High cut		10 x 10	30 x 30	10 x 10	30 x 30											15 x 7 x 20	20 x 8 x 15	15 x 15					
			10 x 15	32 x 32	10 x 15	32 x 32											15 x 7 x 20	20 x 8 x 15	15 x 15					
																		15 x 7 x 20	20 x 8 x 15	15 x 15				
																		15 x 7 x 20	20 x 8 x 15	15 x 15				
																		15 x 7 x 20	20 x 8 x 15	15 x 15				
																		15 x 7 x 20	20 x 8 x 15	15 x 15				
																		15 x 7 x 20	20 x 8 x 15	15 x 15				
																		15 x 7 x 20	20 x 8 x 15	15 x 15				
																		15 x 7 x 20	20 x 8 x 15	15 x 15				
																		15 x 7 x 20	20 x 8 x 15	15 x 15				
Special Grade																								
ALB	Low cut and good surface finish																8 x 3 x 8							
ACE3	Low cut		3 x 8	10 x 20	3 x 3	10 x 20											8 x 3 x 9							
ACE4/1	Medium cut		4 x 4	12 x 4	3 x 8	13 x 13											10 x 5 x 10							
			4 x 10	13 x 13	4 x 4	13 x 26												10 x 5 x 15						
			4 x 13	13 x 26	4 x 10	15 x 15													10 x 12 x 5					
			5 x 5	15 x 15	5 x 5	15 x 18													12 x 5 x 12	8 x 3 x 8				
			5 x 10	15 x 18	5 x 10	15 x 25													12 x 5 x 15	8 x 3 x 10				
			5 x 12	16 x 16	6 x 6	16 x 16													12 x 5 x 15	10 x 5 x 10				
			6 x 6	16 x 32	6 x 10	16 x 32													13 x 5 x 13	12 x 5 x 12				
			6 x 10	16 x 32	6 x 12	19 x 19													14 x 5 x 14	12 x 5 x 15				
			6 x 12	19 x 19	7 x 7	20 x 12													15 x 4 x 15	15 x 4 x 15	10 x 10			
			8 x 8	20 x 20	8 x 8	20 x 16													15 x 4 x 15	15 x 6 x 15	12 x 12			
ACE7/1	High cut		8 x 12	21 x 21	8 x 12	20 x 20											15 x 4 x 15	15 x 6 x 15	12 x 12					
			9 x 9	25 x 25	9 x 9	25 x 25												15 x 4 x 15	15 x 6 x 15	12 x 12				
			10 x 6	30 x 25	10 x 8	30 x 25												15 x 4 x 15	15 x 6 x 15	12 x 12				
			10 x 10	30 x 30	10 x 10	30 x 30												15 x 4 x 15	15 x 6 x 15	12 x 12				
			10 x 15	32 x 32	10 x 15	32 x 32												15 x 4 x 15	15 x 6 x 15	12 x 12				
																		15 x 4 x 15	15 x 6 x 15	12 x 12				
																		15 x 4 x 15	15 x 6 x 15	12 x 12				
																		15 x 4 x 15	15 x 6 x 15	12 x 12				
																		15 x 4 x 15	15 x 6 x 15	12 x 12				
																		15 x 4 x 15	15 x 6 x 15	12 x 12				
AFG	Very high abrasive																15 x 4 x 15	15 x 6 x 15	12 x 12					
AFB	Fast cut																15 x 4 x 15	15 x 6 x 15	12 x 12					
																		15 x 4 x 15	15 x 6 x 15	12 x 12				
																		15 x 4 x 15	15 x 6 x 15	12 x 12				
																		15 x 4 x 15	15 x 6 x 15	12 x 12				

Ceramic Media

How to order with ActOn:

- Choose grade**
Example: APG
- Choose shape**
Example: Angle Cut Triangle
- Choose measurement**
Example: 3X8

Special Ceramic Media Shape Available:

RT (Rounded Triangle). Please contact our sales representatives for further dimensions

For further dimensions and special types of media specific for your application, please contact our sales representatives.

The media grade is the product name. Based on the grinding performance and surface finish required, the appropriate grade must be chosen.

Request your Free Trial today!

Media Grade	Grinding Performance	Surface Finish	Triangle		Cylinder		W Wedge	S Star	TR Tristar	ACTR Angle Cut Tristar	E Ellipse	ACE Angle Cut Ellipse	AR Arrow	B Ball			
			ACT Angle Cut	SCT Straight Cut	ACC Angle Cut	SCC Straight Cut											
Polishing Grade			a x b		a x b		a x b	a x b	a x b	a x b	a x c x b	a x c x b	a x b	a			
APG	Polishing																
APM	Polishing and good surface finish		3 x 8	10 x 20	3 x 3	10 x 20											
			4 x 4	12 x 4	3 x 8	13 x 13											
			4 x 10	13 x 13	4 x 4	13 x 26											
			4 x 13	13 x 26	4 x 10	15 x 15											
			5 x 5	15 x 15	5 x 5	15 x 18											
			5 x 10	15 x 18	5 x 10	15 x 25											
			5 x 12	15 x 18	5 x 10	15 x 25											
			6 x 6	16 x 16	6 x 6	16 x 16											
			6 x 6	16 x 32	6 x 10	16 x 32											
			6 x 10	16 x 32	6 x 12	19 x 19											
			6 x 12	19 x 19	7 x 7	20 x 12											
			8 x 8	20 x 20	8 x 8	20 x 16											
8 x 12	21 x 21	8 x 12	20 x 20														
9 x 9	25 x 25	9 x 9	25 x 25														
10 x 6	30 x 25	10 x 8	30 x 25														
10 x 10	30 x 30	10 x 10	30 x 30														
10 x 15	32 x 32	10 x 15	32 x 32														
APM/1	Polishing and good surface finish																
High Density Grade																	
APD	High density		3 x 8	10 x 20	3 x 3	10 x 20											
			4 x 4	12 x 4	3 x 8	13 x 13											
			4 x 10	13 x 13	4 x 4	13 x 26											
			4 x 13	13 x 26	4 x 10	15 x 15											
			5 x 5	15 x 15	5 x 5	15 x 18											
			5 x 10	15 x 15	5 x 10	15 x 25											
			5 x 12	15 x 18	6 x 6	16 x 16											
			6 x 6	16 x 16	6 x 10	16 x 32											
			6 x 10	16 x 32	6 x 10	16 x 32											
			6 x 12	19 x 19	6 x 12	19 x 19											
			6 x 12	19 x 19	7 x 7	20 x 12											
			8 x 8	20 x 20	8 x 8	20 x 16											
8 x 12	21 x 21	8 x 12	20 x 20														
9 x 9	25 x 25	9 x 9	25 x 25														
10 x 6	30 x 25	10 x 8	30 x 25														
10 x 10	30 x 30	10 x 10	30 x 30														
10 x 15	32 x 32	10 x 15	32 x 32														

we manufacture



Bowls

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



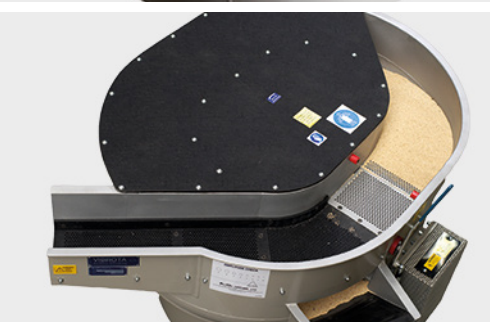
Troughs

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.



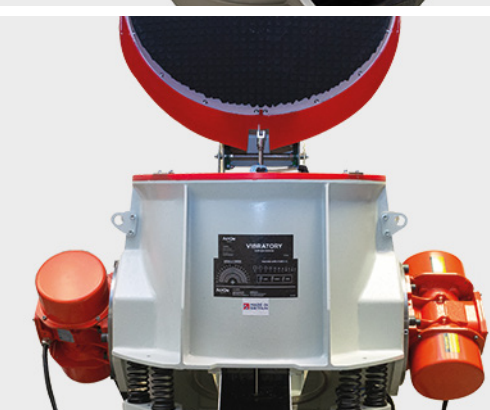
Duals

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



Dryers

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



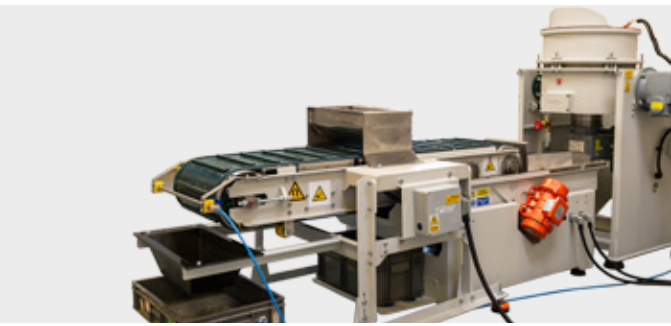
Wheel Polisher

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



Centrifugal High Energy

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



Centrifugal Disc Finishing

Centrifugal Disc finishing machines have been designed to be reliable and easy to operate. The spinning motion of the disc machine is given by the disc situated at the bottom of an open barrel. The rotating disc makes the media, compound and parts to move in a rolling motion, resulting in effective finishing process in the shortest time.



Shot Blasting Cabinets

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



Wheel Blasting Systems

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



DLyte Technology

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



Ultrasonic Cleaning Technology

The Ultrasonic Cleaning Machine is designed to clean, descale and strip a large range of components, from a range of industries such as automotive, aerospace, energy, electronics, food, graphics, jewellery, manufacturing, marine, mould cleaning, medical, optical and more. This technology includes a Standard Series, a Laboratory Series, the Ultrasonic Machines built for the Automotive Industry and Customised Ultrasonic Systems.

Subcontract Service

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

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

Custom project development:



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



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



Inspection Services



Installation, Training, Maintenance Services



Equipment Refurbishment & Spare Parts Service

What Our Customers Say

“Professional, knowledgable, on-time, good value and friendly. You couldn’t want for more. ActOn are always the first place on our list for part finishing.”

Samuel Nottage-McNeice, MAVEN Technology

“ ActOn Finishing’s openness and willingness to conduct trials to establish the most suitable technology and process, was exactly what Ricoh required from a technical partner.”

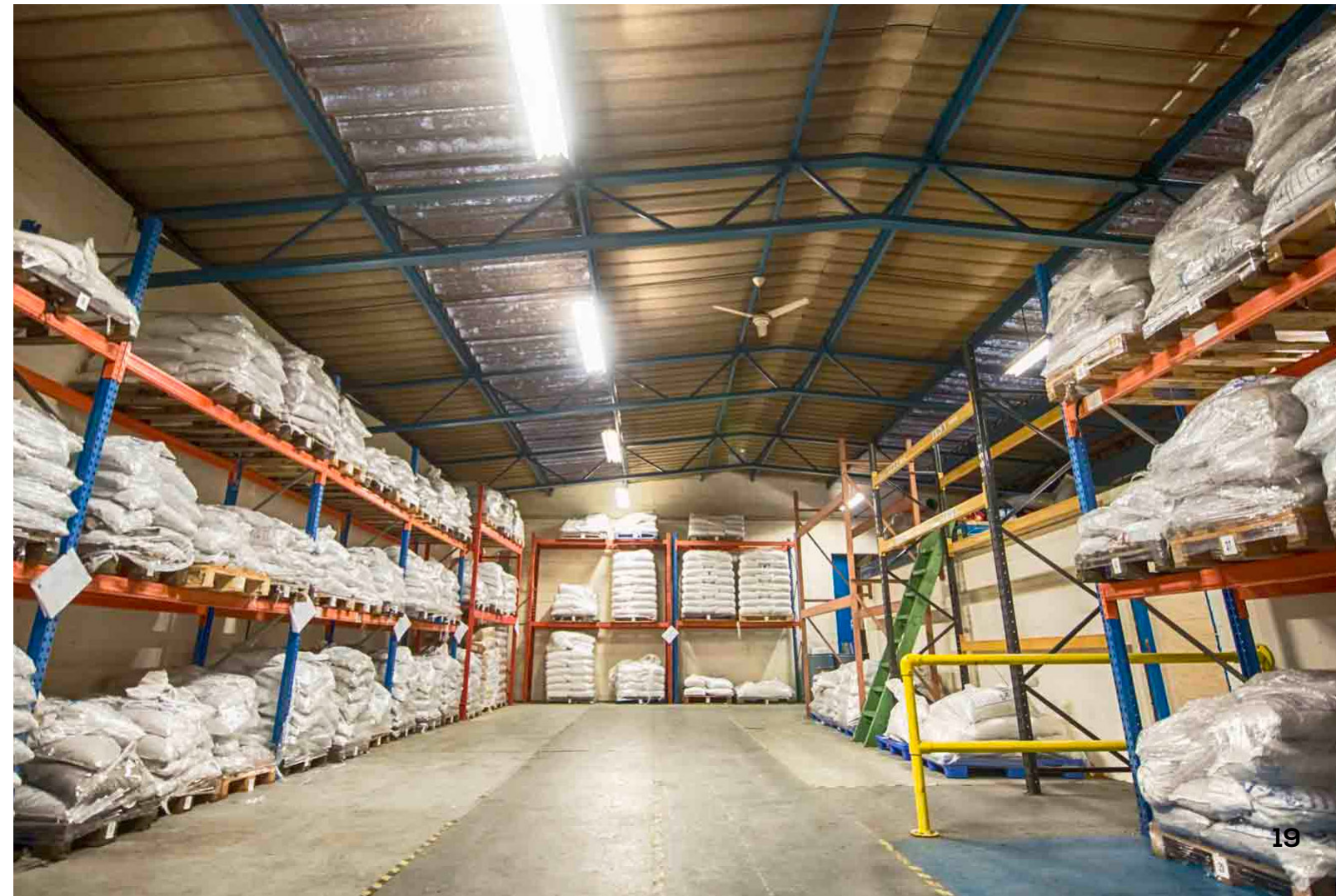
Richard Minifie’s, Ricoh UK Product Limited

“I have used ActOn Finishing many times over the years and have always found them very helpful and knowledgeable about vibro finishing. The team will always come over and help and diagnose issues we have with our finishing dryer machines also. Highly recommended.”

Quality You Can See

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

For ISO, we currently hold:



we redefine

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