

ACTON[®]
FINISHING

Shot Blasting Machines

we redefine
**Wheel Blast
Systems**



We offer a range of Shot Blast Systems to help our customers achieve the surface finish they need. We can cater to all your application requirements including descaling, removal of corrosion and scale, paint stripping, deflashing, shot peening and surface preparation prior to coating. We will offer you full support every step of the way.

we redefine:

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

Why Choose Us?

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

We believe in British

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

We're here for you

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

We have experience

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

We provide options

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

We go the extra mile

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

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Shot Blasting Applications

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.



Before



After



Before



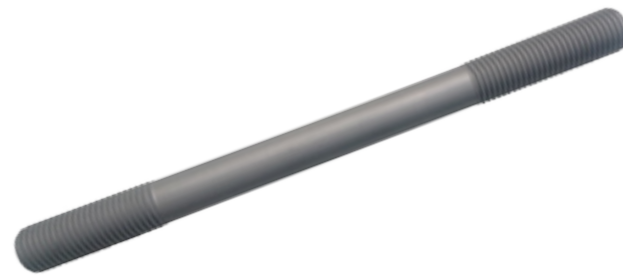
After



Before



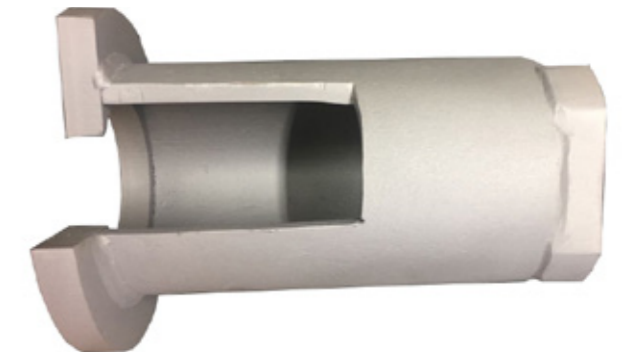
After



Before



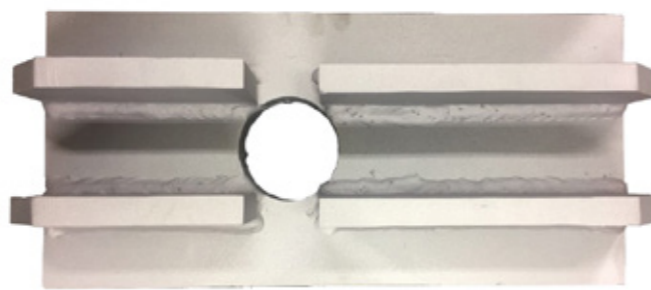
After



Before



After



Before



After



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PG Series

Spinner Hanger Blast Machine

The PG Spinner Hanger Blast Machine have been designed to shot blast components of all sizes and / or fragile parts. Some of the most common applications include:

- Paint Stripping
- Descaling
- De-sanding castings
- Deburring and cleaning aluminium pressure diecastings
- Shot peening
- Removal of rust
- Blast cleaning

ActOn PG Series includes a range of Spinner Hanger Blasting Machines which can fit parts of different sizes and complex shapes. These systems are built with hooks or hoists for heavier parts. Moreover the PG blasting machines are designed to process large components which cannot be tumbled together during the shot blasting process, due to the risk of impingement.



How it works?

Parts can be loaded in the machine separately, to be processed as single pieces, or can be loaded on the fixtures. After mounting the parts on a hook, these are loaded in the shot blasting chamber. Components are finished in a rotating and oscillating movement, hence the final finish is consistent and uniform.

Model	Size of hanging work piece		Load capacity in kg	No. of hooks / hoists
	Diameter (in mm/ inch)	Height (in mm/ inch)		
PG 6 X 10	600 / 23.6	1000 / 39.4	300 kg / hook	2 hooks
PG 8 X 12	800 / 31.5	1200 / 47.2	400 kg / hook	2 hooks
PG 10 X 15	1000 / 39.4	1500 / 59	600 kg / hook	2 hooks
PG 15 X 20	1500 / 59	2000 / 78.7	800 kg / hook	2 hoists
PG 15 X 20 (with hoist)	1500 / 59	2000 / 78.7	2000 kg / hoist	2 motorised hoists
PG 15 X 20 3TR (with hoist)	1500 / 59	2000 / 78.7	3000 kg / hoist	2 motorised hoists
PG 18 X 20 3TR	1800 / 70.8	2000 / 78.7	2000 kg / hoist	2 motorised hoists
PG 18 X 20 (with hoist)	1800 / 70.8	2000 / 78.7	2000 kg / hoist	2 motorised hoists
PG 15 X 30	1500 / 59	3000 / 118	as per customer needs	2 motorised hoists
PG 20 x 30	2000 / 78.7	3000 / 118	10,000 kg / hoist	1 motorised hoist
PG 20 X 35	2000 / 78.7	3500 / 137.8	5000 kg / hoist	2 motorised hoists
PG 25 X 32	2500 / 98.4	3200 / 126	5000 kg / hoist	2 motorised hoists
PG 25 X 45 6TR	2500 / 98.4	4500 / 177	10,000 kg / hoist	1 motorised hoist

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TG Series

Tumble Rubber Belt Blast Machine

The TG Tumble Rubber Belt Blast Machine is ideal to shot blast batches of small or medium parts and fragile components. Any type of material can be processed in these machines, from forged and heat-treated components, to steel, aluminium and brass parts and fragile plastic components. Some of the most common applications include:

- Surface treatment
- Cleaning
- Deburring
- Descaling
- De-sanding
- Corrosion Removal
- Paint Stripping
- Heat Scale Removal

ActOn TG Series includes a range of Rubber Belt Blast Machines which have been designed to include a good quality rubber belt, an automatic unloading system and powerful blast turbines which ensure the components are finished homogeneously in a short period of time.

Model	Rubber Belt Useful Size (in mm / inch)		Load Capacity	
	Width	Diameter	Volume (in Litres)	Weight (in kg)
TG 0.3	630 / 24.8	500 / 19.6	40	50
TG1	750 / 29.5	700 / 27.5	120	200
TG 2	950 / 37.4	900 / 35.4	270	400
TG 4	1300 / 51.2	1150 / 45.3	560	800
TG 5	1300 / 51.2	1300 / 51	720	1000



TA Series

Tumble Steel Belt Blast Machine

The TA Tumble Steel Belt Blast Machine is ideal to shot blast batches of medium to large and heavy parts. For de-sanding applications, this machine can be offered with magnetic drums. The TA series is recommended for finishing steel and brass press-forged parts, cast iron, aluminium, steel or brass castings & heat-treated components. Some of the most common applications include:

- Cleaning and descaling
- De-sanding
- Deburring
- Heat Scale Removal
- Removal of rust
- Surface Treatment

ActOn TA Series are built to include a high-quality quality steel belt conveyor, hydraulic skip loader, work pieces unloading belt and powerful blast turbines which ensure the finishing results are consistent every time. One of the advantages of this machine is that it can process part's internal cavities, leaving them perfectly clean.

Model	Steel Belt Useful Size (in mm / inch)		Load Capacity	
	Width	Diameter	Volume (in Litres)	Weight (in kg)
TA 8	1000 / 39.4	900 / 35.4	280	1000
TA 13	1200 / 47.2	1100 / 43.3	500	1500
TA 16	1400 / 55	1100 / 43.3	600	1600
TA 20	1600 / 63	1100 / 43.3	680	200
TA 20L	2000 / 78.7	1100 / 43.3	840	2000
TA 30	1700 / 67	1400 / 55	1180	3000



STL/A Series

Wire Mesh Belt Blast Machine

STL/A Wire Mesh Blast Machines are built for a continuous shot blasting process of aluminum and steel parts. These machines are also perfect for processing components slots and wholes which are difficult to reach, such as gears, die-castings, castings, gearboxes or forged parts. Some of the most common applications include:

- Removal of rust
- Heat scale removal
- Deburring
- Satin finish
- Surface preparation
- Shot peening
- Descaling

Some of the main features of the STL/A series include:

- Continuous feed installations suitable to ensure high productivity.
- Can accommodate parts with different shapes and sizes.
- Are available for pass-through widths of 450 mm - 600 mm - 850 mm.
- Can be provided with 4 or 8 turbines whose power.
- Low environment impact.
- Low operating costs.

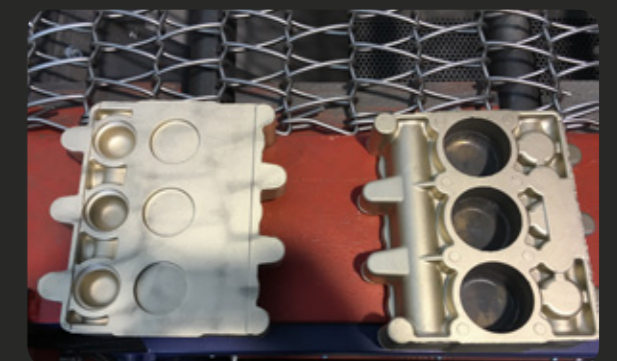


How it works?

Components are placed on a variable speed belt conveyor and loaded into the blast chamber. The turbines positioned above and below the mesh belt, at a certain angle, carry out the treatment of all exposed surfaces. These shot blast machines can be easily integrated into your production line and can be built to suit different component sizes.

Model	Load Capacity		
	Width (in mm/ inch)	Height (in mm/ inch)	No. of Turbines
STL/A 600 /4TR	600 / 23.6	400 / 15.7	4
STL/A 850 /4TR	850 / 33.5	400 / 15.7	4
STL/A 850 /8TR	850 / 33.5	400 / 15.7	8
STL/A 1000 /8TR	1000 / 39.4	400 / 15.7	8

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GSA Series

Continuous Feed Overhead Rail Blast Machine

GSA Continuous Feed Overhead Rail Shot Blasting machine is built for treatment of components hanged on a hook which run on a O-ring motorised overhead rail. The displacement of hangers is automatic with a step by step system to ensure a constant productivity. This shot blasting equipment is widely used by steel, cast iron and aluminium foundries for the surface cleaning of metallic products. Some of the most common applications include:

- Removal of rust, forge scale or mill
- Shot peening
- Deburring
- Removal of moulding sand
- Surface preparation
- Improve surface roughness
- Descaling

Model	Load Capacity		Hook Load Capacity (in kg)	No. of Turbines
	Diameter (in mm/ inch)	Height (in mm/ inch)		
GSA 10 X 15	1000 / 39.4	1500 / 59	600	2 or 3
GSA 10 X 20	1000 / 39.4	2000 / 78.7	600	3
GSA 12 X 18	1200 / 47.2	1800 / 70.8	600	3
GSA 15 X 20	1500 / 59	2000 / 78.7	600	3
GAS 20 X 22	2000 / 78.7	2200 / 86.6	1000	4



Horizontal Series

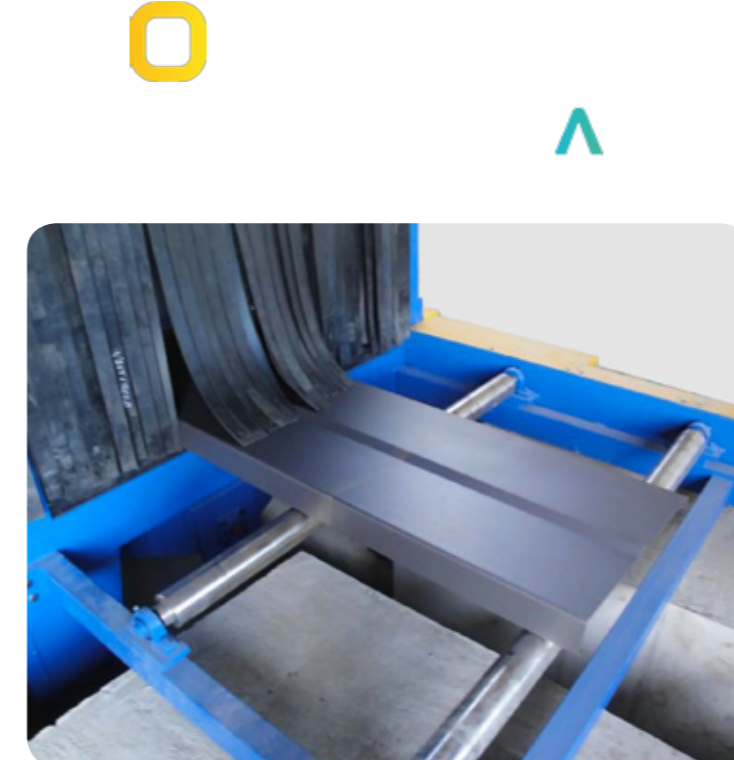
Roller Conveyor Blast Machine

The Roller Conveyor Shot blasting machines are designed to process metal sheets or plates, profiles and metallic structures and any other long or/ and flat component, in a continuous feed process. The Horizontal blast machines can be provided with a painting tunnel for the automatic application of protective primer. Some of the most common applications include:

- Removal of corrosion & heat scale
- Surface preparation to ensure the adhesion of protective paint.
- De-scaling
- Paint stripping
- Cleaning
- Removal of rust

Components a continuously fed through the shot blasting chamber, where the turbines carry out the treatment on all sides. Due to the fast throughput time, reduced media consumption and consistent finish, this piece of equipment will generate significant operating costs.

Model	Max. pass-through section		No. of Turbines
	Width (in mm/ inch)	Height (in mm/ inch)	
Horizontal 800X400	800 / 31.5	400 / 15.7	4 or 6
Horizontal 1500	1500 / 59	1000 / 39.4	4 or 6
Horizontal 1600	1600 / 63	1000 / 39.4	4 or 6
Horizontal 2000X600	2000 / 78.7	600 / 23.6	4 or 6
Horizontal 2000X1000	2000 / 78.7	1000 / 39.4	6 or 8
Horizontal 3200	3200 / 126	1000 / 39.4	8
Horizontal 2500X1000	2500 / 98.4	1000 / 39.4	8
Horizontal 2500X500	2500 / 98.4	500 / 19.7	8



GRT Series

Continuous Feed Tube & Bar Blast Machines

The GRT blasting technology is built to be a continuous feed shot blasting machine for pipes, bottles, cylindrical parts, round bars, torsion bars, gas cylinders and drill rods. Can be easily integrated into existing production lines. Some of the most common applications include:

- Cleaning
- Deburring
- Surface preparation & texturing
- Paint stripping
- Corrosion, rust & heat treatment removal
- Deflashing

Handling of parts, such cylinders and pipes of small and medium diameter, occurs by helicoidal feed through variable speed motorised biconical roller conveyor. For big size pipes the transportation takes place through linear feed biconical roller conveyor.

The GRT Series includes 2 models which have been designed for:

- Model GRB/ 4TR - for processing 200 bottles/ hour.
- Model GRT 180 /6TR - for blasting steel blooms weighing 65 tons max and of 1,80 m max in diameter



RT Series

Rotary Table Blast Machine

The RT blasting technology is suitable for shot blasting small and medium size parts. This installation is provided with a variable speed drive controlled turbine and a turntable, which has a diameter of 2500 mm.

ActOn Rotary Table blast machine is built to be compact, with minimum space being required. It is a self contained piece of equipment suitable for applications such as paint stripping, corrosion, rust and heat scale removal, deburring, de-flashing, cleaning and surface texturing.

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STL Series

Tunnel Concrete Shot Blasting Machine

At ActOn Finishing we offer the STL Tunnel concrete shot blasting machine, designed for surface treatment of marble, granite, natural stone, concrete and aggregate blocks to obtain a bush-hammered, flame treated, antique appearance finishing.

Each unit is provided with a steel mesh belt for the conveying of the component and with a series of turbines for the propelling of metallic blast media. The roughening is carried out with preset intensity, by installing a variable speed drive for the turbines control. In this way the surface pressure of the metallic blast media is optimised. STL offers a high productivity with very low operating costs, when compared to commonly used traditional systems. It is also possible to simultaneously treat the top and side surfaces of the component.

We recommend the STL shot blasting machine for surface treatment of streetscape, flooring, coatings, columns, artistic elements, funeral components, indoor flooring and kitchen worktops.



Shot Blasting and Peening Media

ActOn offers a wide range of Abrasive Consumables for shot blasting and peening processes. Selecting the right blasting media is essential and depends upon the condition of the material before blasting and the finish required after blasting.

Metallic Blasting Media

ActOn metallic blasting media range includes:

- **Steel shot:** great for cleaning, stripping, smoothing, polishing and improving a metal surface.
- **Steel grit:** an aggressive blasting media, used for removing any contamination from steel and foundry metals & to obtain an etched surface finish on components manufactured out of hard metals.
- **Chilled iron grit:** recommended for quick cleaning, etching and roughening up hard surfaces. This is a hard abrasive media, suitable for blasting rooms.

- **Cut wire shot:** available in stainless steel, aluminium, copper, zinc and nickel version, this can be used for peening, cleaning & vibratory finishing.



Aluminium Oxide

An aggressive and tough media suitable for different applications such as general blasting, surface finishing, grinding, polishing, matte finishing, edge rounding and cleaning and preparing the component surface prior to plating or painting.

Aluminium oxide is a durable abrasive media which can be recycled a number of times, making it a cost effective solution. Aluminium Oxide is much lighter than other medias, thus minimising the possibility of parts made out of thin materials being damaged in the finishing process.

Nonetheless, Aluminium Oxide has the properties which allow this media to deburr parts made from hard metals and sintered carbide.

ActOn offers the following options:

- **Brown Aluminium Oxide** (high performance for aerospace and automotive industries).
- **White Aluminium Oxide** (commonly used in the medical industry).



Walnut Shell

Walnut shell is great for removing coatings, cleaning, deburring and de-flashing. This media is hard and fibrous and it is known as 'soft abrasive'. Being extremely durable it can be reused in all types of blasting equipment.

ActOn walnut shell is bovine free.



Silicon Carbides

Silicon carbide is the most aggressive and tough media recommended for general blasting, glass and stone etching, aggressive deburring, scale removal and smoothing components' edges. ActOn silicon carbide is a very fast cut media and due to its hardness, it takes less time to process the components in comparison to other blasting media. Hence this media can be reused for a longer period of time, making it also a cost effective product.



Glass Beads

Glass beads are great for obtaining a clean, smooth, bright or satin finish. This media is a cost effective solution as it can be recycled. Glass beads are mainly used in the shot blasting cabinets.



Brown, Pink and White Alumina

We recommend using ActOn Alumina media for corrosion removal, cleaning, etching and decorating.

- **Brown Alumina:** a fast cutting and tough media, widely used in the aerospace and automotive industry.
- **White Alumina:** ideal for processes where no contamination is allowed, being used for finishing materials such as titanium, stainless steel, crystal glassware.
- **Pink Alumina:** tougher than the white one being used both in wet and dry blasting process. Applications include removal of scale, paint, rust, hard deposits, cleaning, matte finishing, decorative finishing and glass frosting.

Plastic Blast Media

ActOn plastic blast media is recommended for paint and coatings stripping from components manufactured out of soft metals, plastic and composites. This media is widely used in aerospace and automotive industry for blasting applications.



Ceramic Beads

Ceramic beads can be used to process steel, aluminium, and non-ferrous alloys. Applications include cleaning, smoothing, satin finishing, removal of coatings, rust and oxides and deburring. This is a tough media that can be used both in the air and wet blasting process.



we manufacture



Vibratory Finishing

ActOn Finishing is your source for a full vibratory finishing package. We don't just offer you a vibratory finishing machine. We work with you to develop a vibratory finishing process as per your requirements; we design and manufacture the equipment (vibratory bowls, troughs, duals, dryers & wheel polishing machines) you need; we install the vibratory finishing machines for you and train your staff.



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.



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.



Waste Water Treatment

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



Shot Blast Cabinets

At ActOn Finishing we offer a wide range of shot blasting cabinets, including a Portable Blast Series, an Economical range of Suction & Pressure Blast Cabinets and Premium Suction, Pressure & Wet Blast Cabinets. 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.



Wet Blast System

The Automated Wet Blasting machine is designed for blasting of shafts prior to coating. The system consists of two blasting lines which can blast up to 70mm Ø shafts. Parts travel through the blast chamber and then enter the water wash chamber to remove any residue that may be on the components. The parts are then air dried before exiting.



Consumables

Our consumables are an important aspect of finishing. From ceramic, plastic, drying and blasting media to liquid compounds, we ensure that you achieve the optimum results in the most cost-effective way.

Please refer to our individual product brochures for more information.

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

“ 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 machines also. Highly recommended.”

Luke Parker, Bracebridge Engineering Ltd

“ From developing a bespoke process, to installing machines and training our staff, ActOn were excellent throughout.”

“ I have been running this machine for over 10 years, and it’s still going.”

Quality You Can See

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

For ISO, we currently hold:



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

Benjamin Franklin

we redefine

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