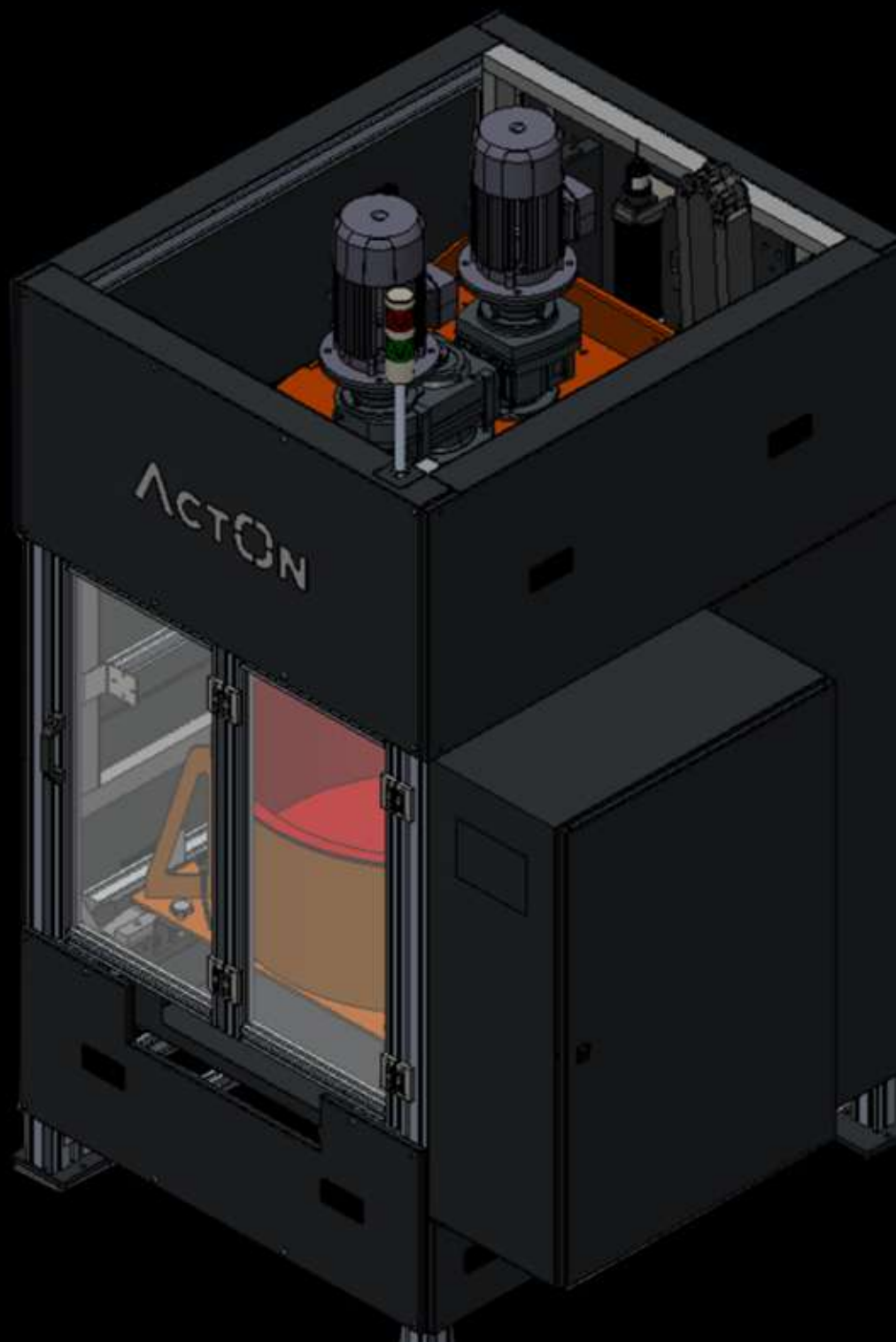
ACTON®
FINISHING

we redefine

Drag Finishing



ActOn Finishing's advanced Drag Finishing technology delivers high-precision surface finishing, deburring, and polishing for complex components with superior speed & consistency. Ideal for aerospace, automotive,medical and tooling applications, our solution ensures exceptional quality while reducing processing time and costs.

we redefine:

- Surface Finishing
- Shot Blasting & Peening
- Ultrasonic Cleaning
- 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.

Table of Contents

Our Customers

Drag Finishing Technology

How it works?

Drag Finishing is a high-energy surface finishing process where components are securely clamped to the spindle's holders and rapidly dragged through a specially designed media. This motion generates intense friction, enabling precise deburring, edge rounding, smoothing, and polishing in a fraction of the time required by traditional methods. Unlike vibratory or tumbling processes, Drag Finishing ensures minimal part-on-part contact, preventing damage and achieving uniform, high-quality finishes. This makes it ideal for delicate, high-value components used in industries such as aerospace, medical, and automotive.

Benefits of Drag Finishing Technology

Superior Surface Quality

Smooth, polished, and precise finish.

Faster Processing Times

Reduces finishing time significantly in comparison with traditional methods

Damage-Free Process

No part-on-part contact during finishing process.

Consistent Results

Delivers consistent and repeatable results every cycle.

Customisable Process

With customisable workpiece holders it can process a wide variety of parts.

Ideal for Complex Parts

Perfect for surface finishing intricate geometries without damaging these.

Versatile Applications

Suitable for various industries and finishing processes.

Reduced Manual Effort

Automated system to minimise labor-intensive work.

High-Quality & Durable

Proudly made in Britain for reliability and durability.

Cost-Efficient Solution

Reduces waste, part rework and process time.

Click here to contact us for a Free Finishing Trial today!

Finishing Applications

Drag Finishing is widely used across various industries for achieving superior surface quality and precision. It is ideal for processing high-value, complex, and delicate components, ensuring a precise and controlled surface finish for applications such as deburring, edge radiusing, surface grinding, smoothing, and polishing.

Deburring

Edge Radiusing

Surface Grinding

Surface Finishing

Smooth Finishing

Polishing

Aerospace
Turbine blades, engine components

Automotive
Gears, transmission parts

Tooling
Cutting tools, molds, dies

Medical
Implants, surgical instruments

Additive Manufacturing
3D-printed metal and polymers parts

Jewelry & Luxury Goods
High-precision polishing

Defense
Firearm components, military-grade tools, aerospace defense parts

Energy
Wind turbine and power generation components

ADF Series
Drag Machine

The ADF Series Drag Finishing Machine is a state-of-the-art solution for achieving perfect edge rounding, smoothing, or mirror finishes efficiently. This innovative machine combines advanced technology with cost-effectiveness, ensuring precision, reliability, and exceptional quality.

Key Features

1. Robust and Reliable Design

- Rigid aluminium profile construction with safety enclosure ensures long-term durability.
- Front door with an integrated safety switch for secure operation.

2. High Performance and Flexibility

- VFD-controlled carousel/spindle assembly for adjustable speed control.
- Custom part holders accommodates between 3 to 36 components/ process.
- Adjustable tilting angle up to 35°.
- Available with quick release fixtures option if required.
- Suitable for large and heavy parts.

Click here to request a quotation today!

Key Features

3. Process-Optimised Work Bowl

- Polyurethane-lined bowls for both wet and dry processes.
- Tool-free exchange system with positioning sensors for quick and error-free changes.
- Optional additional work bowl with trolley for increased efficiency.
- Integrated water cooling system maintains low granulate temperatures, ensuring:
  - Extended process media life.
  - Consistent finishing quality, even at high speeds.

4. Precision Control

- Advanced dosing unit for precise control of water and polishing compounds.
- Encoder and position sensors for accurate part immersion depth management.
- Vertical drive arrangement handles heavy loads seamlessly.

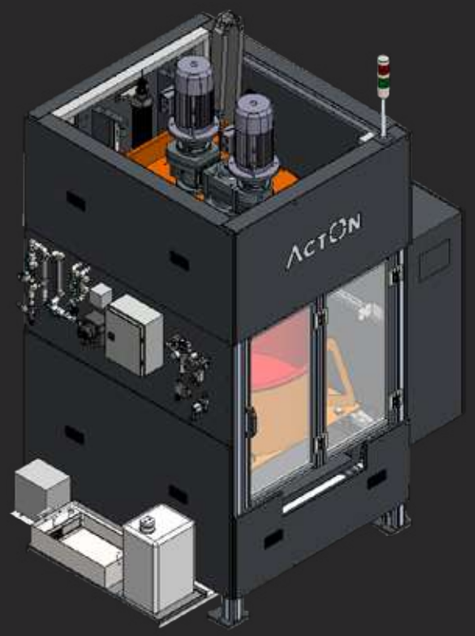
5. Smart Operation

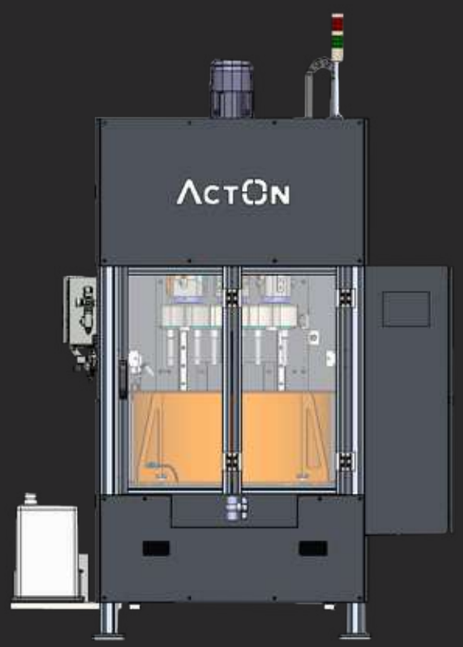
- PLC and HMI-based control panel for intuitive operation and real-time monitoring.
- All functions are equipped with safety interlocks, for operator safety.

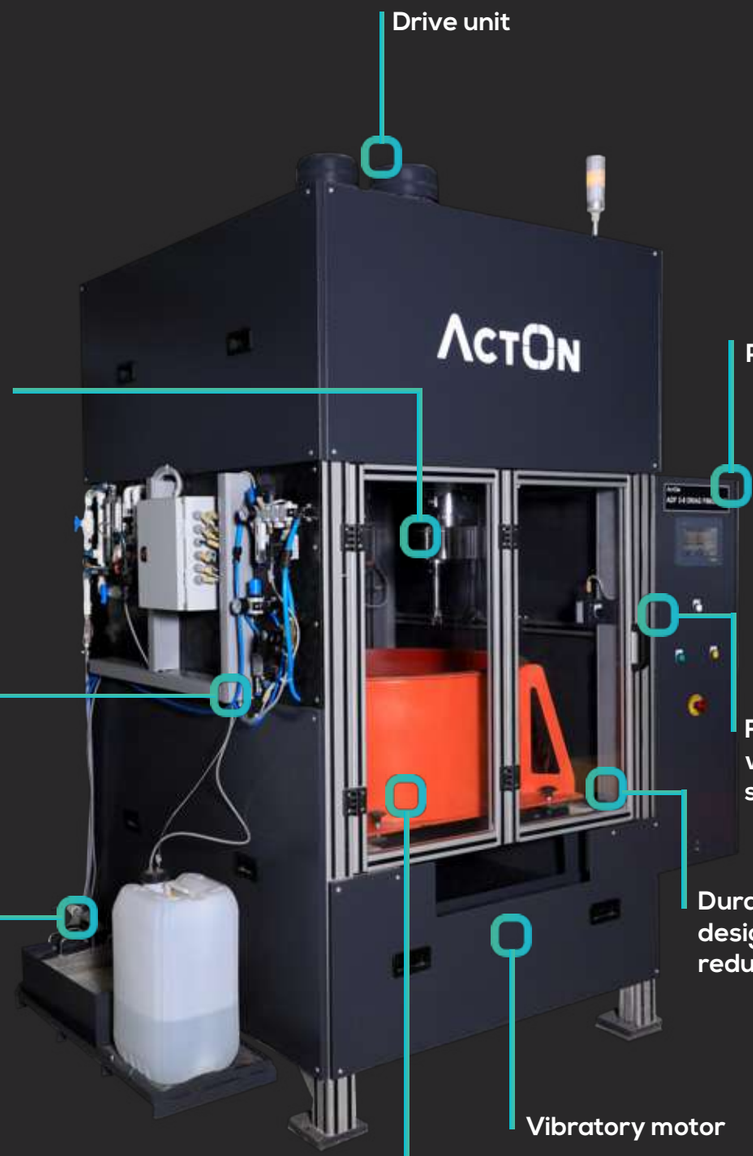
Technical Information

Model	ADF 3	ADF 4	ADF 5	ADF 6
Machine dimmensions (W x D x H) in mm / inch	1980 x 1430 x 2800 78 x 56 x 110	2160 x 1610 x 2980 85 x 63 x 117	2340 x 1790 x 3160 92 x 70.5 x 124	2520 x 1970 x 3340 99 x 76 x 131
Min. part holding capacity	3	4	5	6
Max. part holding capacity *	18	24	30	36
Max work piece diameter * in mm / inch	100 / 4	100 / 4	100 / 4	100 / 4
Max part weight Kg	2	2	2	2
Bowl capacity Ltr. / Cu. Ft.	200 / 7.06	250 / 8.8	310 / 11	360 / 12.7
Immersion depth in mm / inch	250 / 9.8	250 / 9.8	250 / 9.8	250 / 9.8
Straight part holder	O	O	O	O
Straight & angled part holder	+	+	+	+
Control panel with PLC, HMI, VFD	O	O	O	O
Dosing unit	O	O	O	O
Power supply requirement	3Ph, 415V, 50Hz	3Ph, 415V, 50Hz	3Ph, 415V, 50Hz	3Ph, 415V, 50Hz
Total power consumption kW	6.0	7.5	11	15

Note:
Sizes indicated are standard. Custom sizes can be manufactured to suit specific applications.
Dimensions are subject to change due to design improvements.
* Based on the part size and its geometry this number may vary.
O Standard + Optional







Click here to request a quotation today!

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 parts.

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.

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.

Disc Finishing

Disc finishing machines have been designed to be reliableand 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.

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.

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.

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 parts made of steel and stainless-steel, cobalt chrome, titanium, nickel and other common metal alloys.

Ultrasonic Cleaning

Designed to clean, descale and strip a large range of components. It's perfect for a range of industries such as automotive, aerospace, energy, electronics, food, graphics, jewellery, manufacturing, marine, mould cleaning, medical, optical and more.

Subcontract Service

On top of our state-of-the-art machinery and consumables, 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:

1. Finishing needs: concept and goals
2. Assessment: we will carry out free trials using ActOn technology
3. Customized engineering development
4. Production phase
5. In-house validation
6. Commissioning

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, knowledgeable, 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 were quick to develop a solution for the shell cleaning system. The disc finishing machine has improved our throughput significantly and we are pleased with the quality of machine that they have manufactured and installed. We look forward to working with ActOn on future collaborative projects."

Henry Illsley (Shell Process Engineer), Rolls Royce Bristol

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:

LRQA CERTIFIED ISO 9001 · AS 9100 — UKAS MANAGEMENT SYSTEMS 0001

LRQA CERTIFIED ISO 14001 — UKAS MANAGEMENT SYSTEMS 0001

MADE IN BRITAIN — 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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