

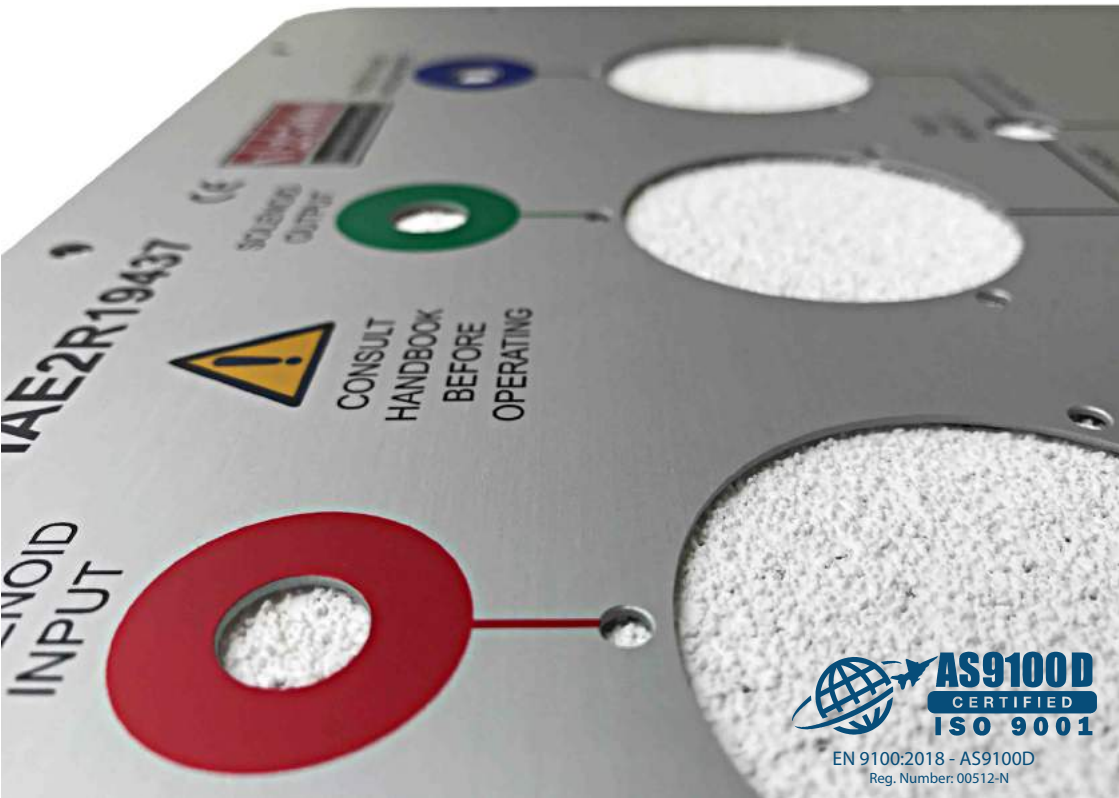
BIE Magnum

Est 1973

PRECISION AND EXPERIENCE

Shot Blasting • Masking • Paint & Powder Coating
CNC Machining • Laser & Rotary Engraving • Infilling
Alocrom 1200 • Anodising • Iridite NCP
Anodic & Screen Printing

A one stop solution with exceptional lead times



Our customers rate us as “Excellent”

Source: Customer Survey

A Service you can TRUST



Since 1973

Offering effective and
quality finishing solutions.

Critical parts, enclosures,
equipment, fascia panels,
labels and much more...

We thrive on a
challenge

Top image: Engine Transport Container - Shotblast, Paint & Stencil
Left image: Shotblasting

“Excellent quality and
customer service, the
team are always helpful
and approachable.
Excellent standard of
workmanship.” 2021

“Ongoing consistently
excellent standard of
service and workmanship,
friendly, reliable and
helpful team.” 2020

“Continuing to give
excellent customer
service, giving us what we
need when we need it.”
2019

“Absolutely no complaints,
excellent standard, always
willing to meet a deadline.
A very friendly and
approachable team who
are willing to work with us
to achieve our goals.” 2018

Scott Aerospace Ltd

Source: Customer Survey

Clients & Approvals

ULTRA  GKN AEROSPACE




a Belcan company

SKF

 Ipeco

 SCOTT
AEROSPACE

SIEMENS

 KLIKLOK[®]
INTERNATIONAL

 Keyford

PART OF
 BOSCH
Invented for life

 H
Horstman

 HELANDER
PRECISION ENGINEERING

 LEONARDO

 Spectrum Medical

On Time Finishing Solutions



Top Image: Precision Mask and Paint; Right Image: Engraving and 4 Colour Fill; Bottom Image: Precision masking

- ◆ Every aspect of our process is underpinned by our **AS 9100D** quality control system, ensuring a tailor-made, cost-effective solution, on time and in full.
- ◆ Our highly skilled workforce has an average of 18 years' experience per member of staff to draw on.
- ◆ Using the latest technologies, we ensure precision in everything we do.
- ◆ An extensive range of materials, processes and finishes enables us to provide a bespoke solution to suit your requirements.

Our Values

Reliability and Trust to deliver on time in full.

Working in Partnership to offer exceptional service and quality.

Communicating, listening, questioning and keeping you informed.

Continuously Improving our processes and procedures.

Caring for the Environment and working towards a sustainable future.

Investing in a Brighter Future supporting the Mutende Orphanage & School in Zambia and the Woodland Trust.



WOODLAND
TRUST



Shot Blasting

Our 20-foot enclosed shot blast room has revolutionised the speed at which we can shot blast and prime steel with a range of media. Shot blasting removes burrs, scale or rust that may interfere with the part's integrity, appearance or definition. For use in almost every industry including aerospace, defence, nuclear, automotive, construction and rail.

Precision Masking

Aerospace, defence, electronics and customised precision masking are areas for which we have long been renowned, with staff exceeding an average of 25 years' experience in this department alone. We take immense pride in a beautiful job and the key to a successful finish is in the fine lines, sharp edges and meticulous detail.

Rotary Engraving

We combine the latest technology with traditional pantograph techniques. Our machines engrave onto a vast range of standard and non-standard materials, shapes and sizes. Whatever your need, we have the capability to fulfil your requirements, nothing is too complicated.

Infilling

We can engrave and infill or just infill your supplied engraved parts with any colour to suit your requirements. We have a wealth of experience to ensure a quality finish.

"Parts delivered on time and in many cases they were ahead of lead times to help satisfy our customer demands."

Siemens

Source: Customer Survey



Laser Engraving

With our CO₂ laser engraver we can work with a wide range of materials and save you time & money. We can produce text or images direct from your drawings, engrave and cut items in a range of materials; this increases speed whilst ensuring complete accuracy.

Powder Coating

Powder coating is applied electrostatically as a freeflowing, dry powder and then cured under heat. The main difference between liquid paint and a powder coating is that the powder does not require a solvent and provides a tougher, more flexible finish.

Wet Paint & Stove Enamelling

With almost 50 years experience in the finishing industry, we have the expertise you need. We supply stove enamelling and paint applications to a number of MOD and aerospace specifications, as well as to the electronics industry. Our team is highly skilled and experienced in complex masking and paint finishes.

CNC Machining

3 axis machining of panels, enclosures and modification to existing parts, all in-house. Providing a complete turnkey solution when combined with our finishing services and unrivalled delivery times.

Proud to support RAF100
Engraving | Anodising | Printing
The Relay Batons

Left Image: CNC, Polish, Anodic Print and Bend
Right Image: Engraving, Anodic Print

Aluminium Coating Treatments

Anodising, Clear & Black

Anodising is a RoHS and environmentally compliant coating and provides the hardest wearing, scratch-resistant finish of all. It is ideal as a final finished treatment and suitable for anodic printing which gives a subsurface scratch resistant print. It gives an ideal finish for paint adhesion. *It is non-electronically conductive but we can machine or laser to create earthing points.

Alocrom 1200, Iridite NCP

Alocrom and Iridite are conversion coatings providing an ideal surface for paints and powder coating, ensuring a clean surface with excellent adhesion properties. Also suitable as a final finish without painting, even after heating or baking. All are electronically conductive. Iridite has been developed to provide a RoHS and environmentally compliant clear coating alternative to the Non-RoHS compliant golden finish of Alocrom.

	Anodising	Alocrom 1200	Iridite NCP
RoHS Compliant	✓	X	✓
Type of Treatment	Sulphuric	Chromate 6	Chromate-free
Finish	Clear/Black	Golden	Clear
Corrosion Protection	✓	✓	✓
Suitable for Aluminium components	✓	✓	✓
Scratch resistant if final finish	Excellent	X	X
Suitable for overpainting	✓	✓	✓
Electrically conductive	X *unless masked	✓	✓
Heat Resistant	✓	✓	✓
Specifications	MIL-A-8625F Type 2 CLASS 1/2	MIL-DTL-5541 TYPE 1	MIL-DTL-81706 CLASS 3
	DEF STAN 03-25	DEF STAN 03-18	MIL-DTL-5541 TYPE 2 CLASS 3
			DEF STAN 03-38
Environmentally compliant	✓	X	✓
Alternative to Alocrom	X	N/A	✓
Max Size <i>Width x Length x Depth</i> <i>mm</i>	450 x 1450 x 680	450 x 1450 x 680	450 x 1450 x 680
Av. Lead Time	5 Days	4 Days	4 Days

Left Image: Laser Engraving
Right Image: CNC Machining and Anodising

“Always continuing to deliver a great service and to an excellent standard. Willing to help to enable us to get our job delivered on time.”

Keyford Precision Engineering

Source: Customer Survey



“First class service, very responsive and helpful. Always willing to give advice and very professional approach to all aspects of our requirements. I would highly recommend”

Bushell & Meadows

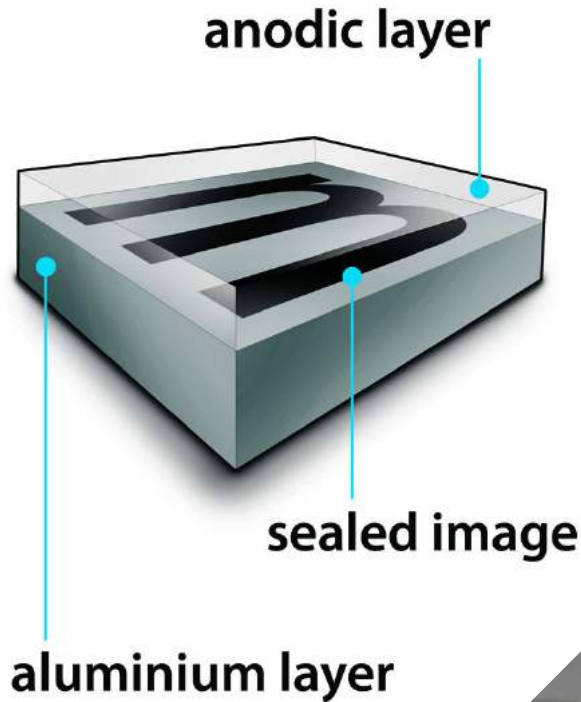
Source: Customer Survey



Anodic & Screen Printing

By combining traditional screen printing with the latest advances in technology including **sub-surface anodic** printing and **epoxy** printing, we can achieve a high-quality print onto a variety of substrates.

Delivering a wide range of products from self-adhesive vinyl labels to Rolls-Royce panels.



We can provide a one stop solution with the most competitive lead times.

Having been in the industry for almost **50 years**, we have established a **one stop solution**. Providing a **high-quality finish** with the most **competitive lead times**.

From one-offs to larger production runs, including

Critical parts, Enclosures, Equipment, Fascia panels, Labels and much more...

Whatever your requirements, We can find the solutions.

“BIE are happy to pick up new work and assist with any development and trials. Working with us to produce creative solutions.”

Ultra Electronics

Source: Customer Survey

“All round an excellent service provided!”

GHL Tech Ltd

Source: Customer Survey



AEROSPACE

DEFENCE

RAIL

NUCLEAR

OIL & GAS

SUBSEA

MEDICAL

AUTOMOTIVE

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BIE **Magnum**
Est 1973

Come and meet the team...

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