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What we do

Robafoam Ltd are a specialist company whose technology and expertise is focused on the automatic application of foam seals. With over 30 years industrial adhesive and sealant experience we represent a significant resource in this field.

As a business, our sealing services cross virtually all industry types. Our core focus is to provide the precise, robotic application of 2D and 3D compression joints, ensuring high level IP rated watertight seals. The technology and service is also applicable for NVH requirements, bonding, potting and encapsulation.

Based in the centre of the UK, our Headquarters in Warwickshire put us at the heart of automotive manufacture and the drive towards electric vehicle technology.

Our Services

Subcontract Gasketing

Robafoam are the UK's largest provider of robotically applied 1K foam seals.

Prototype Support and Processing

Using our lab-based foaming system, we provide customers with early part design advice and the sealing of one-off 3D printed models. We also offer ongoing project support, through the development phases of part evolution.

Foam Application Equipment and Integration

With strategic partners globally, Robafoam offers the very best foam sealing technology available, with the expertise and the network that customers of any size can rely on.

Foam Material

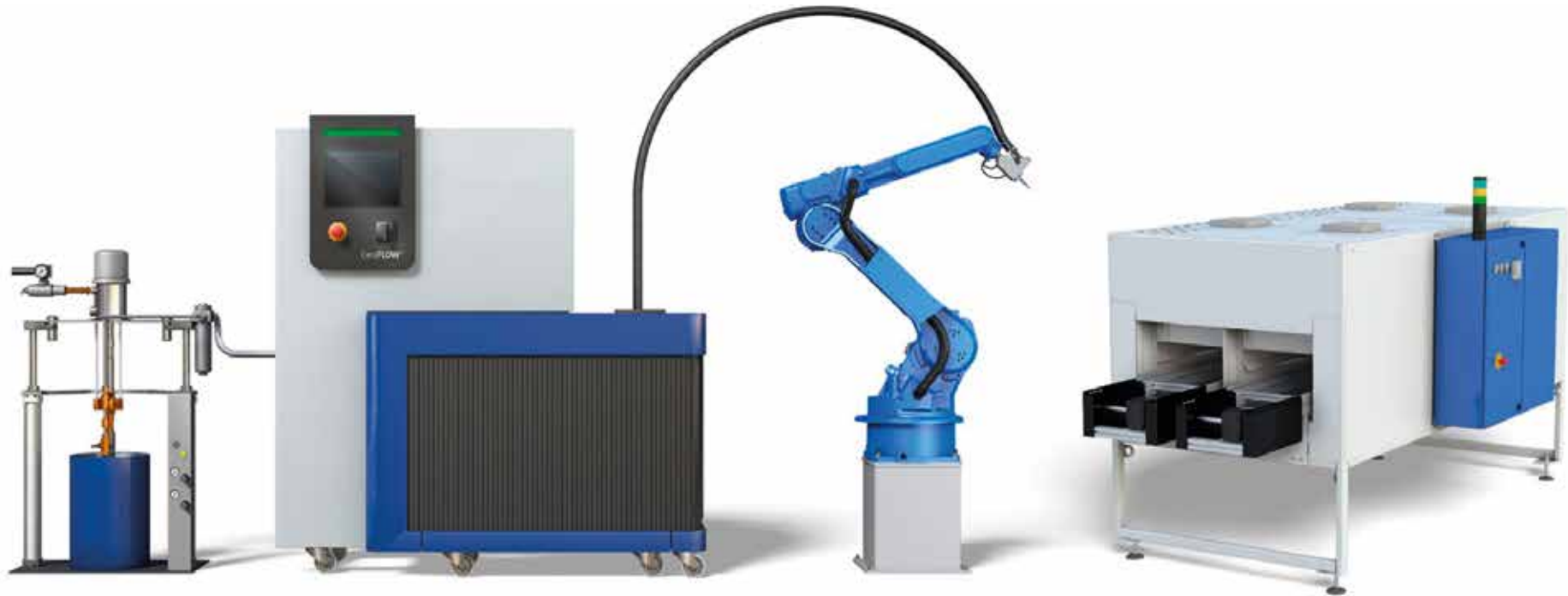
We are the UK and Ireland distributor of 1K foam materials including the CeraPUR® range of products.

Atmospheric Plasma Pre-treatment

Used in combination with our foam application systems to ensure high adhesion of foam to part. Or used as a dedicated subcontract plasma service.

Servicing and Technical Support

Once a system is installed, we provide technical support and system servicing according to individual customer requirements.



One-component
sealing material

Mechanical air entrainment
to material

Material application/automation

Foam cross-linking under
temperature – approx 80°C

Single component foaming

Robotically applied

Variable hardness: application specific

3 Dimensional and double face application

N.V.H: noise vibration harshness

IP Rating

1.6mm to 20mm bead size. Bespoke bead size, "as applied"

Precise and accurate application

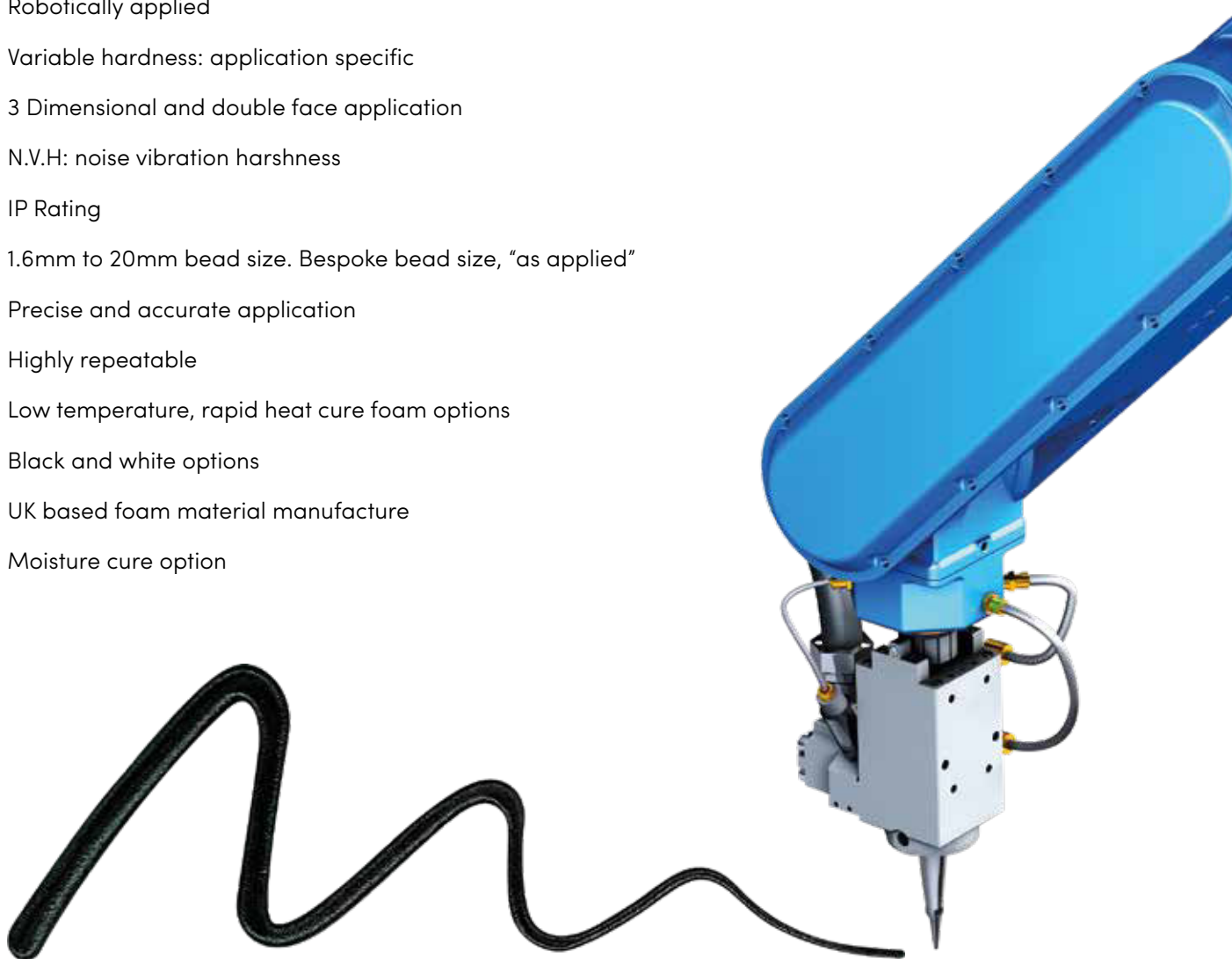
Highly repeatable

Low temperature, rapid heat cure foam options

Black and white options

UK based foam material manufacture

Moisture cure option

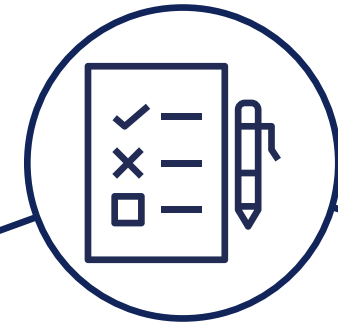


From prototype



Design concept

Prototype



**Part validation
and testing**

Resources

Advice from experts with over 30 years' experience
CAD evaluation
Design recommendations

Application of seals to rapid prototype
3D printed parts
Dedicated lab facility
Parts up to 3000 x 2000 in size
Cycle time process and cost calculation

Functional testing
Composite/adhesion testing
IP rating evaluation
IP 53 - IP 69
Water immersion
High pressure water spray
Fixture design

Pre-production (small batch)



Low volume batch requests
No minimum order quantity
Process refinement



Volume processing or system sale

Complete turnkey solutions
Material supply
Single point of contact
3 shift
5 cells
Plasma system
JIT supply

Service



MRP control system
Own vehicle logistics collection
and return
Foam system support
Spare parts supply

Example applications

Top left

Automotive rear lamp
Material: Polycarbonate



Top right

Door latch
Material: Polypropylene



Bottom left

Heat sink
Material: Cast Aluminium



Bottom right

Electronic flange
Material: ABS



Automotive



Used and approved by most global auto OEM's for many interior and exterior sealing and NVH applications.

Lighting



Robafoam seals ensure high IP rating for all lighting environments. From glass and plastic diffusers to cast ferrous components.

Marine



Used for decades in boat and yacht furniture assembly and sealing. From window frames to deck hatches and access points. A robust seal to last the lifetime of the product.

Construction



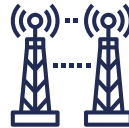
Used extensively on door cassette sealing requirements. However, the technology is suitable for all water and air-tight component assemblies.

Electrical/Electronic



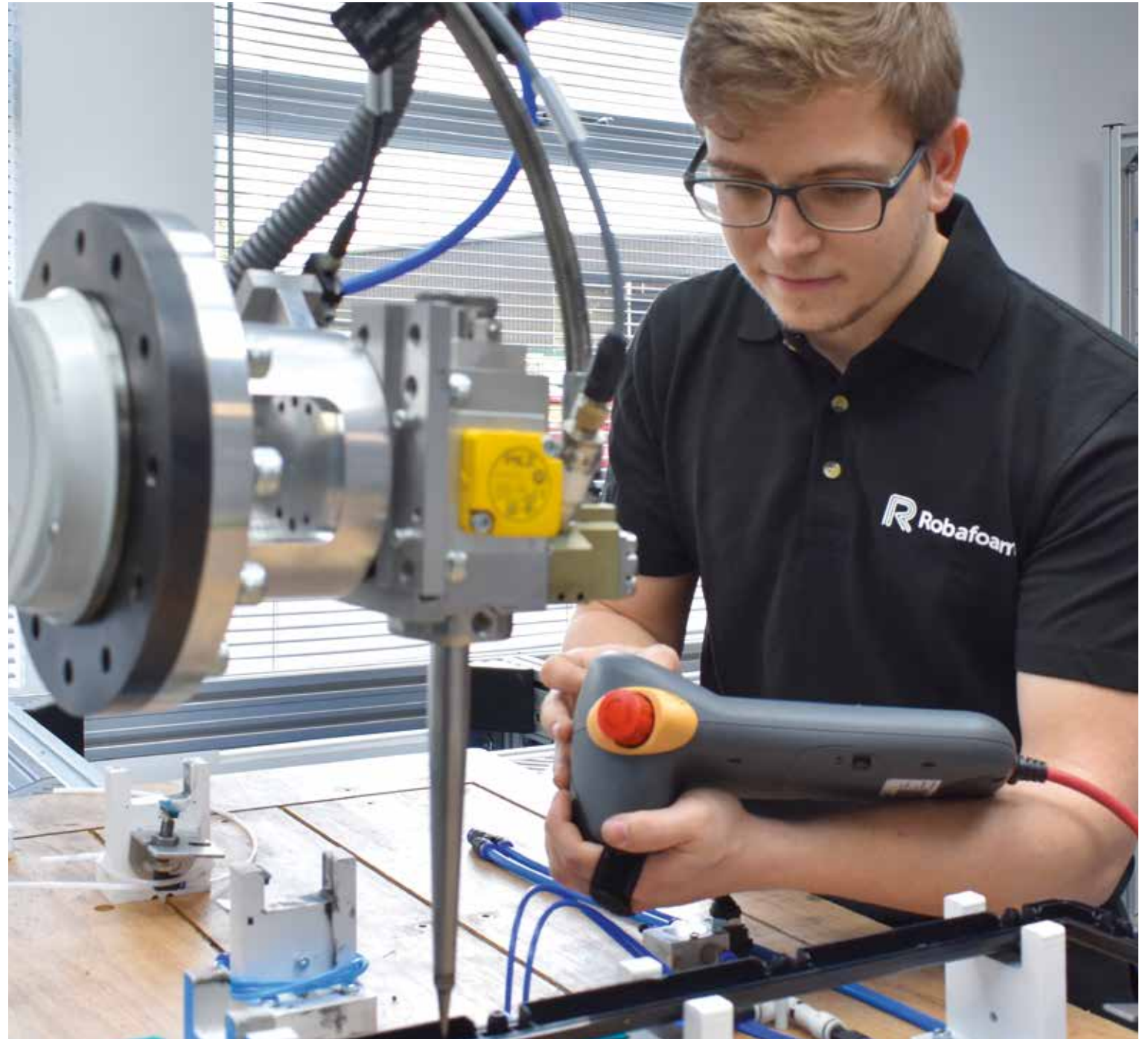
For sealing, bonding and potting of many electrical demands including 1000's of enclosure designs. Highly suitable for EV battery pack sealing.

Telecoms



Our ability to achieve IP69 for a demanding underground environment, means Robafoam are chosen extensively for component junctions with fibre optic and power distribution networks.

Applicable industries





Resourceful

Being experts in our field, we pride ourselves in applying our knowledge to each customer's specific requirements.

Reassuring

We aim to deliver each customer peace of mind, so they are confident that everything is being taken care of. After all, the success of our customers' products is the key to our business development.

Relatable

The information you receive from us will always be clear and concise. We understand our industries and our partners, therefore we will always work with you to achieve the best outcome.

Responsive

We recognise that timely communication is critical. Therefore we always act quickly according to the challenges faced, to solve any and all problems.

Rated

The materials we use are compliant with virtually all European automotive standards and tested to specific UL approvals. We are accredited to British Standard ISO9001-2015



**Our
attributes**



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