

# Volumetric Construction



The complete  
fastening connection

Bringing it together.





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# One-stop volumetric solutions



# A fastening evolution



## From two German spa towns

With a history now spanning 100 years, EJOT has grown to become one of the world's leading fastening systems manufacturers.

From humble beginnings in rural Germany, the company's focus on excellence and elevating expectations for its customers has established EJOT as the trusted brand to meet the numerous fastening challenges faced by both the industrial engineering and construction sectors.

Staying true to its heritage, EJOT has continuously developed design and manufacturing capabilities in its home region of Siegen-Wittgenstein, and today our operations in the neighbouring spa towns of Bad Berleburg and Bad Laasphe are world-class.

## To state of the art manufacturing in Yorkshire

In 1985, the UK became the first in a series of international subsidiaries. By the early 1990s EJOT UK was established as a manufacturing site in Leeds, heralding a new era of nationwide service and support with an international pedigree.

Over four decades EJOT UK has continuously grown to adapt to the changing needs of the markets we serve, from automotive and construction to micro-industries and medical technology. Today we operate a recently extended state-of-the-art manufacturing, R&D, logistics and operational facility at Sherburn-in-Elmet, carrying forward the aim to maintain sustainable growth.

## To fastening solutions worldwide

Our Yorkshire engineering heritage is a key dimension to a truly international business. EJOT UK is an integral part of a global network of EJOT Group manufacturing and R&D companies whose shared knowledge and experience enables customers to deliver ever higher quality and more sustainable outcomes.

This network of facilities leverages local engineering expertise to deliver an unrivalled range of fastening solutions that are tailored to the needs of UK based customers, and are part of a global product portfolio capable of meeting the most demanding technical challenges, whatever the location.



# Modern methods of construction



# Build-ready innovation

## Roofing & Cladding

Here in the UK, the EJOT brand has been at the forefront of fastening systems for roofing and cladding for approaching 40 years. Through our innovations we have played a key role in facilitating the development of many new types of building systems and construction methodology.

Our range includes an extensive mix of fasteners, screw and tube-washer combinations and complete systems for single skin roofing, composite systems, standing seam and flat roofing, many of which are designed to provide a secure fix for assured air and water tightness.



## Rainscreen & Façade

Our building envelope expertise is prevalent in rainscreen and façade systems with our range of fasteners approved for use with all leading OEMs. Our key certifications and independent approvals for these fasteners means EJOT products can be specified with confidence by building designers globally.



From fastening products specifically for through-wall systems that encompass substructure and framing, through to unique insulation anchors and ultimately, screws for fascia panels - the EJOT range provides dependable solutions that ensure design goals can be realised without compromise.

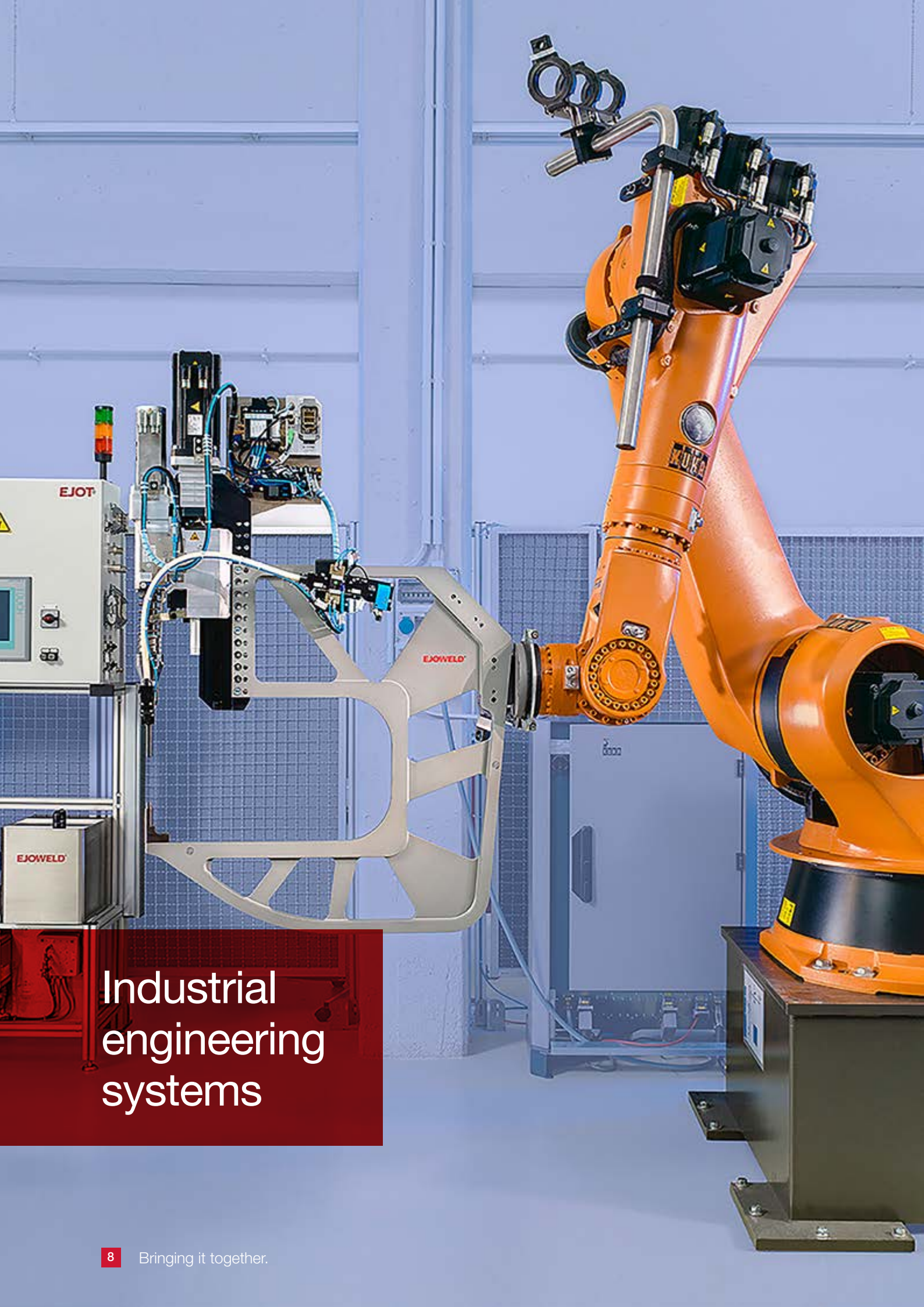


## ETICS and the sustainability sectors

EJOT fastening systems are a key enabler for the decarbonisation of existing buildings and the road to zero carbon for new build. Our range of solutions for ETICS (External Thermal Insulation Composite Systems), along with attachment systems for photovoltaic solar panels and green roofs, are redefining the building envelope's role in meeting sustainability targets.



Through our innovative anchoring products and fixing solutions, we can help architects and designers integrate higher levels of insulation into the envelope – whether that is an existing or new building – with the aim to maximise the green potential of the roof or façade concept.



# Industrial engineering systems



# Automotivation

## Shared knowledge to drive innovation

Stronger and consistently higher joint quality, improved efficiency of the completed assembly, a rationalisation of components, the adoption of innovative materials and making working practices safer. These goals are as important in construction as they are in the engineering sectors, particularly automotive.

This makes EJOT uniquely placed. As a specialist in fastening solutions for both sectors, we have a wealth of expertise from which our technical teams can interact and draw upon to tackle ever more challenges driven by cost-efficiency, sustainability and performance objectives. In fact, our fastening technology has unlocked the potential for many advanced materials to become commonplace, enabling designers and manufacturers to think differently from the outset.



## Advanced fastening for modern engineering materials

Without the right fastening solutions, the strong but lightweight materials that are widely used in many areas of manufacturing and construction may never have seen the light of day. Our screws for thin sheet materials, for example, such as the EJOT FDS (flow drilling screw) and more recently our EJOWELD friction weld joining technology, have revolutionised how we build.

As a result the way we make cars, vans, commercial vehicles, white goods and numerous other assembled products today is a world away from assembly techniques 40 years ago – and the same scale of change is happening in construction too.



## From manual to volumetric installation

Our role in supporting change and helping customers push forward with new approaches to established ways of doing things dovetails the goals of the volumetric and off-site construction industries extremely well.

EJOT engineering screws and our innovative fastening systems are widely used within fast-moving, highly automated manufacturing plants, helping our clients maintain quality and consistency in jointing at all stages. This results in assembly processes that potentially tick the boxes for emerging sectors such as volumetric building – a precise ‘fit and forget’ joint which retains its strength and integrity throughout the design life of the building.





# Concrete Solutions

Currently Europe's tallest modular residential development at College Road, Croydon. Image courtesy of Century Facades Ltd, Tonbridge.



# Metal anchoring

## Next generation concrete screws

EJOT's expertise in creating secure attachments to concrete and other hard base materials means we can complete the package for volumetric building providers.

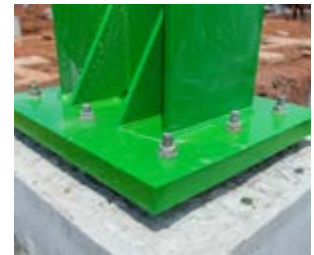
With our next generation range of self-tapping screws for cracked and non-cracked concrete, safe, secure and reliable attachment is easy to achieve with the assurance of ETA-approval. Materials range from galvanised or zinc coated carbon steel to high grade A4 stainless steel for the most demanding environments.



## Through-bolts to safety bolts

For volumetric buildings that stand the test of time, achieving a high quality attachment to the concrete base is crucially important to prevent costly issues further down the line. With EJOT, designers have access to a complete range of high quality through-bolts suitable for a wide variety of applications and performance criteria.

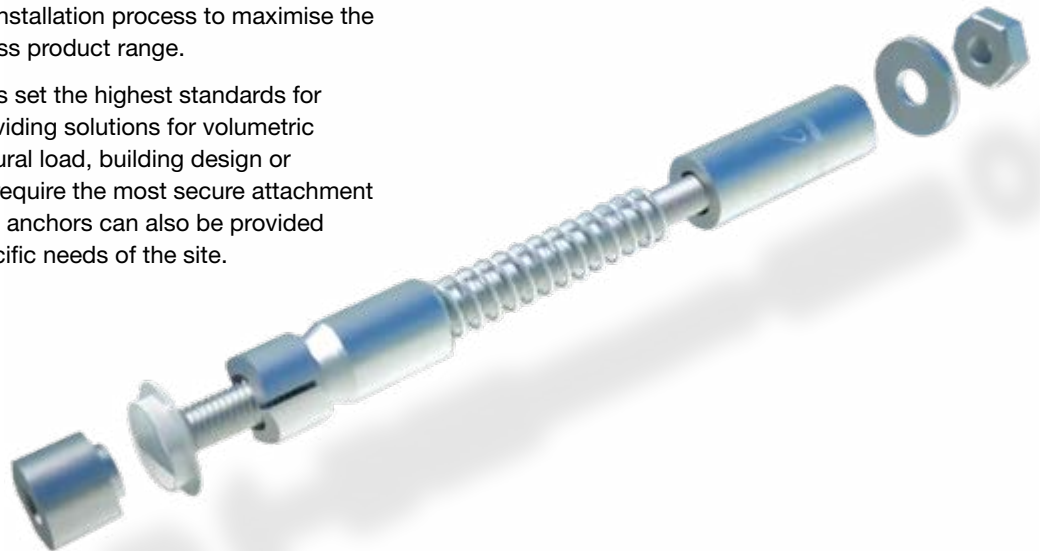
EJOT helps engineers achieve their concrete attachment goals through our range of torque-controlled through-bolts or anchor bolts. Their advanced design evolution benefits from decades of concrete anchoring expertise within EJOT, making the through-bolts suitable for embedment in Option 1 and Option 7 concrete applications. Available direct from EJOT for a dependable supply with short lead times, it is a range that will create a strong attachment every time without compromise.



## LIEBIG critical fixing solutions

Taking concrete anchoring to the highest level, we offer the globally renowned LIEBIG range, which has been part of the EJOT family since 2017. Our UK-based sales and technical specialists assist at all stages of the anchoring design, specification and installation process to maximise the potential for this world-class product range.

LIEBIG heavy duty anchors set the highest standards for attaching to concrete, providing solutions for volumetric buildings where the structural load, building design or environmental conditions require the most secure attachment available. Bespoke LIEBIG anchors can also be provided with ease to meet the specific needs of the site.





collaboration

ch & development >>> :  
visualisation

inception  
to completion

characterisation  
evaluation

testing >>> :  
mechanics and  
structural testing

Everything is  
impossible  
until it's done

# Solutions driven research and development

Underpinning all of the construction and industrial fastening systems from EJOT is a dedication to technical excellence and continuous innovation to ensure our solutions will always deliver the best outcomes for our customers. This is why we invest heavily in R&D and testing, at the heart of which is our state-of-the-art APPLITEC Centre at our Yorkshire manufacturing facility.



Part of the EJOT Group's global network of technical laboratories, our APPLIcation TEChnology facility is a 'human' think-tank whose task it is to demonstrate understanding of the physical and environmental performance of connections. It enables us to work closely with OEMs, engineers, architects and contractors to co-develop the most appropriate and reliably performing fixings and attachment systems.

The APPLITEC Centre gives EJOT customers from the UK and beyond, access to a global team of qualified technicians providing a collaboration of knowledge, experience and innovative thinking.

From standard pull-out tests to complex application testing, ultra-violet, metallurgical and chemical composition data analysis to the provision of data to demonstrate strengths and fastener capability, the APPLITEC Centre helps us optimise and enhance the boundaries of performance, going beyond the benchmark to set new and higher standards.





# The quality connection

# Professional Associations



**The National Federation of Roofing Contractors**

Represents over 70% of the roofing industry by value. The NFRC seeks to adapt to change, ensuring that its members are kept at the forefront.



**Metal Cladding and Roofing Manufacturers Association**

Represents manufacturers and suppliers, working to promote best practice. The Association seeks to improve technical knowledge.



**The Single Ply Roofing Association**

SPRA represents the UK's single ply roofing industry and supply chain including manufacturers, distributors and specialist contractors.



**The Insulated Render and Cladding Association**

Represents the major system designers, specialist installers and the key component suppliers within the external wall insulation industry.



**Construction Fixings Association**

The CFA's objective is to raise industry standards to the highest level of quality and safety for the selection and installation of safety-critical fixings.



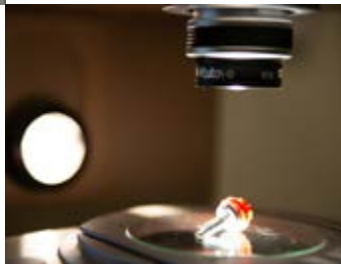
**Society of Motor Manufacturers and Traders**

The voice of the UK automotive industry, the SMMT is one of the largest trade associations in the country, representing more than 800 automotive companies.



**Global Fastener Alliance**

The GFA is a network of independent suppliers of high quality fasteners, responding to the globalised demand of the automotive industry and other large industrial users of fasteners.







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Bringing it together.