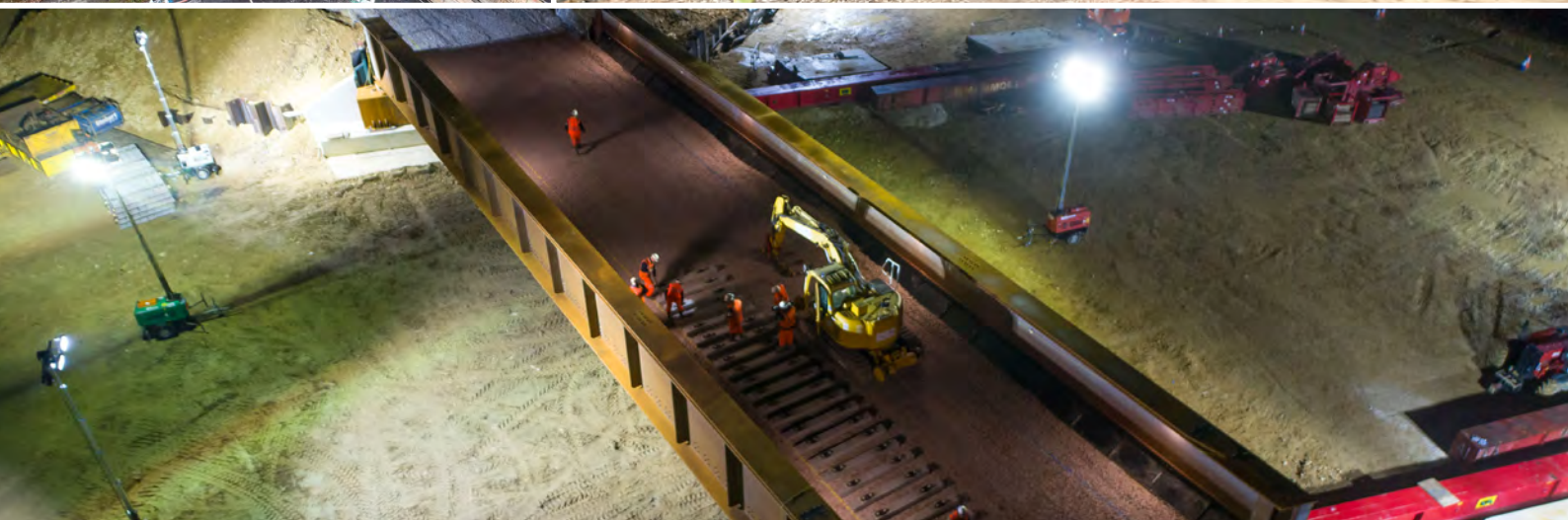




CLEVELAND BRIDGE

Excellence in steel construction



**World-leading
steel fabrication
and construction
for bridges
and complex
structures**



INTRODUCING CLEVELAND BRIDGE



Over 140 years of steel innovation

Cleveland Bridge is a global leader in the design, engineering, fabrication and construction of steel bridges and complex structures. Founded in the UK in 1877, our company has a long track record of innovation, helping to create some of the world's most iconic structures, from the Victoria Falls Bridge and the Wembley Stadium Arch, to the Sydney Harbour Bridge and The Shard in London.

Local knowledge, global reach

As part of the Al Rushaid Group, we produce high-quality structural steel components at advanced manufacturing centres in the UK, Dubai and Saudi Arabia. Our network of sales offices covers Europe, India, China and the Middle East, taking Cleveland Bridge expertise to clients around the world.

Precision-made steel for challenging applications

Our combination of highly skilled designers and engineers with technically advanced manufacturing facilities enables us to produce 150,000 tonnes of precision-engineered steel every year. Our products are engineered to fulfil the most demanding applications in the highways, rail, transport infrastructure, commercial, stadia, industrial, energy and public building sectors.

SECTORS WE SERVE

Bridge building:

- Highways
- Rail

Complex structures:

- Transport infrastructure
- Commercial
- Industrial
- Stadia
- Public buildings
- Energy (including nuclear)



OUR CAPABILITIES

Skills and resources for every structural steel challenge

Cleveland Bridge has extensive skills and expertise in design, civil and structural engineering, fabrication, project management, installation, construction and remedial services for steel bridges, buildings and structures – on any scale.

We have the knowledge, facilities and resources to support every aspect of any size or scale of construction and engineering projects, from new-build programmes to strengthening and refurbishment works, as well as providing support services such as preparation, painting and finishing.

Building better bridges and complex structures

Our specialist knowledge and expertise enable us to bring innovation and value engineering to any project, helping to save time, costs and resources for clients, while improving safety and environmental performance.

As bridge-building pioneers, we design, manufacture and install steel bridges of every type, including beam, truss, cable and modular bridges.

In the world of construction, we manufacture, fabricate and install load-bearing and architectural steel elements for large-scale commercial and civic buildings, industrial buildings, transport hubs and iconic stadia.

Bridge Strengthening and Refurbishment

Cleveland Bridge has long been associated with retrofit work on bridges, whether minor repairs or long duration contracts. We are experts in bridge rehabilitation, from cable inspection and replacement to dehumidification and strengthening.



MAJOR PROJECTS



1988 | Canary Wharf building



2005 | Wembley Arch



2012 | The Shard

2016 | Forth Replacement Crossing

1943 | Howrah Bridge



2004 | Rion Antirion Bridge



1997 | Jiangyin Bridge



1997 | Tsing Ma Bridge



2003 | Carquinez Bridge



1974 | Rio Nitteroi Bridge



1909 | Blue Nile Bridge



1905 | Victoria Falls Bridge



1932 | Sydney Harbour Bridge



2016 | Sri Lanka rural bridges



FLAGSHIP PROJECTS

Bridge building:

- Bosphorus Bridge, Turkey
- Forth Road Bridge, UK
- Humber Bridge, UK
- Infinity Bridge, UK
- QEII bridge Dartford, UK
- Rio Niteroi Bridge, Brazil
- Rion Antirion Bridge, Greece
- Sydney Harbour Bridge, Australia
- Tamar Bridge, UK
- Tsing Ma Bridge, Hong Kong
- Tyne Bridge, UK



WHAT WE BUILD

Iconic steel bridges

Cleveland Bridge is a pioneer of steel bridge construction around the world. Our expertise includes designing, fabricating and installing bridges for highways and rail applications, and our service includes all project, logistics and site management. We can support the design process and build steel bridges of every type, including beam, cable-stayed, truss, U-decks and one-off iconic structures.

We have the experience and resources to build road bridges of any size over railway lines, rivers, floodplains and roads. For rail bridges we have vast experience of working to Network Rail requirements and within strict possession windows, ensuring our work causes minimal disruption to rail services.



Modular bridges for rural development projects

Cleveland Bridge has developed an innovative, adaptable, reliable modular bridge product specifically for the export market. These modular bridges are perfectly designed to meet the demand for robust, versatile, low-maintenance bridges in rural areas and remote parts of the world. They are supplied as a kit of parts that can be exported in standard shipping containers, easily transported to remote areas and rapidly assembled on site.

Complex steel structures

Cleveland Bridge has a proud history of applying British construction and engineering excellence to create some of the most challenging structures conceived by architects around the world.

Our experienced teams value engineer, manufacture, fabricate and install primary structural steelwork and transfer structures for high-rise buildings, airport terminals, railway stations and other transport infrastructure, sports stadia, public buildings, industrial plants, power stations, nuclear plants and many other major structures.



As a leading steelwork fabricator, we can manufacture and install both complex structural frames and heavy transfer structures for buildings of any size.

Collaboration and ingenuity

Collaboration is at the heart of every Cleveland Bridge project. From early engagement with architects and designers, through contributions to planning and logistics and coordination with main contractors and sub-contractors, our willingness to share expertise is the key to successful, safe and efficient project delivery. It's also the reason we have been able to forge so many long-lasting relationships with clients, contractors and suppliers worldwide.



COMPLEX STRUCTURE PROJECTS

Transport infrastructure:

- London Bridge Station
- Canary Wharf Cross Rail
- Dubai International Airport expansion

Commercial:

- The Burj Al Arab, Dubai
- The Shard, London
- Hong Kong & Shanghai bank, Hong Kong

Stadia and public buildings:

- Wembley Stadium Arch, London
- Dubai Olympic Sports Complex
- Sheffield Arena, UK

Nuclear & energy:

- Sizewell B Reactor Liner Plate, UK
- East China (Jiangsu) Power Transmission Project
- Thames Flood Barrier, London

Full package of support services

We support our bridge and structure-building capabilities with a comprehensive range of services to provide a complete solution for any construction project. These services include:

- Design consultancy
- Early Contractor Involvement
- Project management
- Construction / safety management
- Temporary works
- Installation engineering and methodology
- Feasibility surveys
- Site audits
- Environmental impact surveys

We have substantial experience in the field of Planned Preventative Maintenance on steel bridges.

Types of services we can offer include:

- Dehumidification - deck boxes, anchorage, main & stay cables
- Cable Inspection
- Strengthening
- Blasting and painting
- Rehabilitation of expansion joints and bearings
- Replacement cables (Suspender, Hand Strand, Stay)
- Access gantries (Underdeck and Main Cable)





OUR WORK RECENT PROJECTS

A14 BRIDGES

Cleveland Bridge was appointed to fabricate and construct six major bridges on a section of the new A14 between the A1 and Cambridge. They included:

- A1 Brampton Interchange Bridge – an 80m-long curved bridge over the A1 constructed from 30 curved and cambered girders, each up to 34m long, weighing a total of 1,400 tonnes. This complex bridge was completed on schedule in just nine weeks on site.
- A 40m-long bridge over the East Coast Mainline, formed by five pairs of 40m girders, each pair weighing 85 tonnes. We completed the bridge within strict 2am to 6am possession windows over three weekends.
- A 750m-long viaduct over the River Great Ouse, which required 6,000 tonnes of steel, comprising 76 separate main girders and 800 cross girders. The viaduct was completed on time and on budget, despite wet weather and windy conditions on the exposed site.
- Two identical bridges to carry a major roundabout at Bar Hill Junction over the new A14. Constructed from 44m-long girders, both bridges were installed in just 11 hours using SPMTs, enabling the road to be reopened 18 hours ahead of schedule.

KEY STATS

7825 TONNES OF STEELWORK INCLUDING:

30 CURVED AND CAMBERED GIRDERS

76 MAIN GIRDERS

800 CROSS GIRDERS

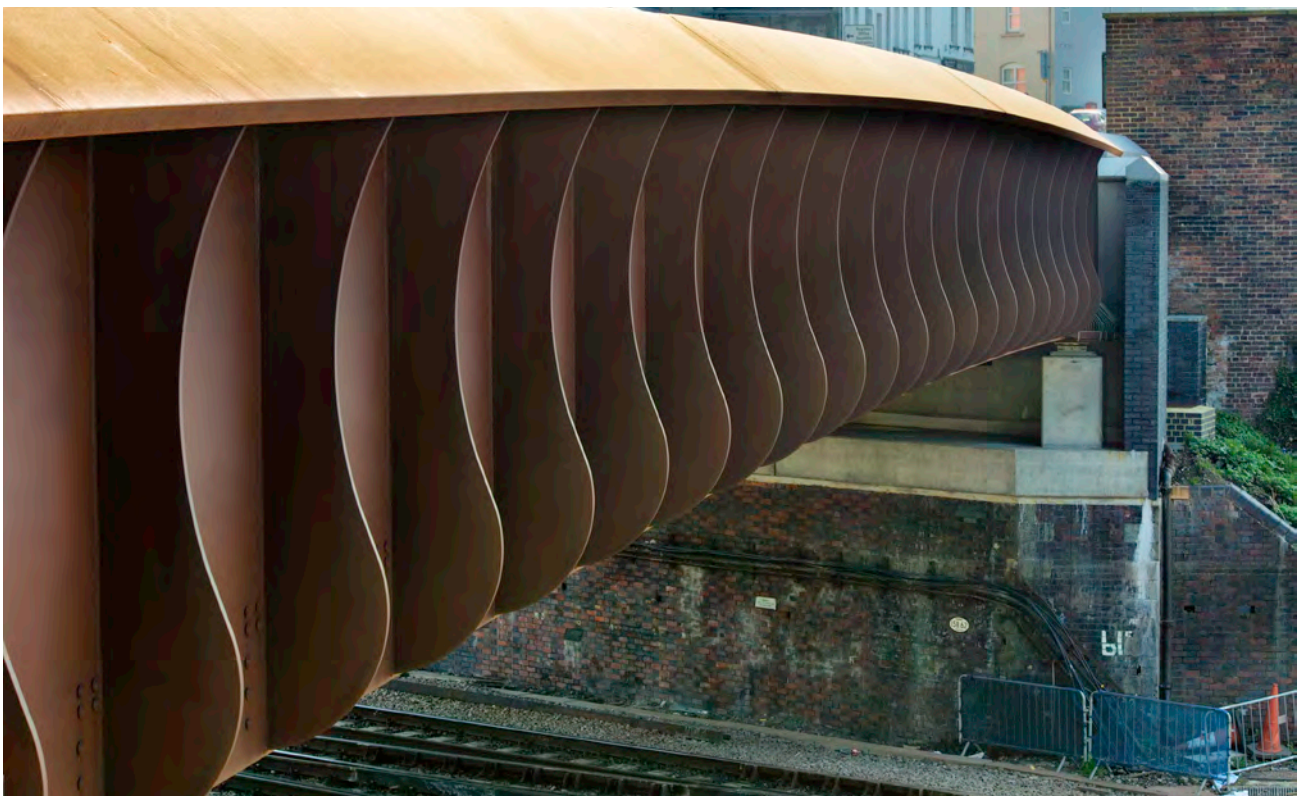
870 TOTAL BRIDGE LENGTH IN METRES



BRIDGE STREET ROAD BRIDGE, NEWPORT

As part of the Great Western Route modernisation and electrification scheme, an iconic road bridge in Newport was scheduled for reconstruction to accommodate the increased height of the overhead line equipment (OLE).

Cleveland Bridge was contracted to plan and supervise the heavy lift removal of the existing bridge structure and to plan, detail, supply, fabricate, assemble and install the new 228-tonne, skewed road bridge. Installation of the new bridge was successfully completed within three hours of the line closure. This allowed sufficient time for follow-on activities, including installation of 90 pre-cast concrete units, before the line was reopened on schedule.



LONDON BRIDGE STATION

The high-profile redevelopment of London Bridge Station posed significant logistical challenges in this congested part of the city.

New concourse bridge decks were required to span the open concourse area of the new station, allowing more lines to pass through. They consisted of three or four spans of simply supported decks for every rail line.

Cleveland Bridge was contracted by Costain to supply, fabricate, deliver and install 29 plate girder rail bridge decks, consisting of six main girders braced together. The total tonnage for the project was 3,600. Due to the location and complicated

logistics, exacting co-ordination with Costain was required. All steelwork was delivered to the centre of London and erected by Cleveland Bridge using cranes or SPMTs, while maintaining safe access to rail services for the public throughout.





KEGWORTH BYPASS



Cleveland Bridge was appointed to fabricate, deliver, assemble and install a new bridge over the M1 at Kegworth, providing access to a new logistics park adjacent to East Midlands Airport. The bridge comprised four sets of paired girders, spanning 50m and weighing 330 tonnes.

One of the biggest challenges was installing the bridge over a busy motorway close to the airport. Large cranes were prohibited, so SPMTs were used to offload the 50m-long braced girder pairs from the delivery vehicles. The girder pairs were then bolted together in a secure area adjacent to the M1 to form the new bridge deck, ready for concrete pouring. Cleveland Bridge returned to site to install the entire bridge structure using SPMTs during a weekend closure of the M1.

KEY STATS	
50	BRIDGE SPAN IN METRES
330	STEEL WEIGHT IN TONNES
1250	TOTAL BRIDGE DECK WEIGHT IN TONNES

“We were extremely happy with the quality of the product supplied by Cleveland Bridge. They worked to a challenging programme and collaborated well throughout the project. The Site Operations and Installation was executed to a high standard, the project benefitted from the early engagement of Cleveland Bridge ”

David Lane,
Project Manager, Buckingham Group Contracting Ltd





OUR SUSTAINABLE BUSINESS

Putting sustainability into practice

Cleveland Bridge is leading the way in the construction industry by incorporating sustainable thinking into the way we manage and operate our business. For us, sustainability goes beyond taking care of the environment; it means creating a robust, profitable, sustainable business for future generations. A business that operates with minimal impact on the environment, of course, but also one that has the expertise, products, skills and resources to thrive, grow and provide employment long into the future.

We have comprehensive sustainability charter, which sets objectives and KPIs for every area of the business, including services, products, environment, health, safety, wellbeing, compliance and community engagement.

Caring for the environment

In our factory, lean principles are embedded in every process. Through continuous improvement we optimise our resources and material use, while reducing waste and inefficiency. By segregating waste, recycling and working with our waste contractor, we send zero direct waste to landfill.

On the sites where we operate, we engage early with all stakeholders to plan our work in meticulous detail so that we minimise any environmental impacts. We conduct detailed risk assessments of every project and vet all sub-contractors to ensure they comply with our high standards of sustainability. Site works are planned to optimise resource efficiency, and minimise waste, noise and disruption. As a result we have an Environmental Incident Rate of zero.



HEALTH, SAFETY AND WELLBEING



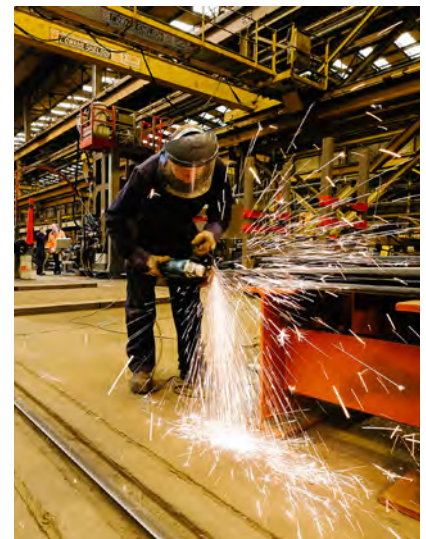
Looking after our people – every day

The health, wellbeing and happiness of our people are central to our success. Our factory shift patterns and flexible working hours allow our people to achieve a healthy work-life balance. We have introduced part-time working for retired employees, as a way to retain their skills and enable them to share their vast experience with newer team members. We offer counselling services and a range of health and wellbeing workshops. The benefits of looking after our people are borne out in the levels of engagement, productivity and enthusiasm we see among our teams.

Providing a safe place to work

Nothing is more important than keeping our people safe at work. Despite working on large-scale construction sites, we are approaching 1,000,000 hours with no lost-time incidents. We have an accident frequency rate (AFR) of zero, against a BCSA target of 0.4.

We have introduced behavioural safety training, helping to make safety awareness self-sustaining in the organisation. We give people the freedom to report or challenge unsafe behaviours, to take responsibility and take action to improve safety.



OUR PEOPLE

Training and development

We recognise that people are the real differentiators of our business, which is why we invest so heavily in training, recruitment and retention – and why we have doubled our training budget every year since 2015.

Our award-winning apprenticeship programme offers training for careers in engineering, maintenance, IT, procurement, business development and many other trades. We offer higher level and graduate apprenticeships too, as well as a graduate scheme for university leavers.



Our investment in training and career development extends well beyond the early career stages. Our talent identification programme enables people to create personal development plans that focus on their strengths and ambitions. We support career growth through continuous professional development, and provide training that leads to chartered status in range of professions.

Community involvement

As a 140-year-old business at the heart of Darlington's development, Cleveland Bridge is integral to the town's history and identity. We build on this legacy every day through close links with local schools, colleges, universities, charities and businesses. We attend careers events, run workshops, promote engineering careers and provide inspiration and opportunities for young people in the region.

In the wider community, we support a variety of initiatives, including volunteering on community projects, providing apprentices to support local ventures, and running interactive science, technology and engineering events at local schools.

Equality and inclusion

Everyone at Cleveland Bridge has signed up to our 'Values Charter'. This sets out the values of trust, integrity, transparency and respect by which we work and ensures that fairness, equality and inclusion are integral to our organisation.

These principles are also set out in policies covering diversity, equality and modern antislavery, and in our fair and transparent recruitment process.



AWARDS AND RECOGNITION

International accreditations

Cleveland Bridge quality systems and standards are aligned with all statutory legislation and approved Codes of Practice. They are approved to ISO 9001:2008 by LQRA and ISO 3834 Pt2 by the International Institute for Welding.

We are approved by LRV (Lloyd's Register Verification) to 'CE mark' Cleveland Bridge steelwork in accordance with the Construction Products Directive product standard EN1090 for all execution classes. The company is registered under the Achilles Link Up scheme as a qualified supplier for work undertaken on Network Rail property.

An award-winning business

Cleveland Bridge has been widely recognised by local and national award schemes for its achievements and commitments. Some of our most recent award successes include:



North East Business Awards 2018

- **Winner**
Manufacturer of the Year



Metals Industry 2017 & 2018

- **Craft Skills Apprentice of the Year**



Manufacturer MX Awards 2017

- **Regional Finalist**
Apprentice of the Year



Construction News Specialist Awards 2018

- **Winner:** Project of the Year by a Specialist Contractor (Newport Bridge)
- **Finalist:** Apprentice of the Year & Project of the Year by a Specialist Contractor (London Bridge)



Made in the North East 2017

- **Finalist:** Manufacturing Apprenticeship of the Year
- **Finalist:** Large Manufacturing Company of the Year



EEF Future Manufacturing Awards 2017

- **Regional runner-up**
Final Year Intermediate Advanced Apprentice



Manufacturing MX Awards 2018

- **Finalist:** Sustainable Manufacturing
- **Finalist:** Export



Structural Steel Design Award 2018

- **Winner:** London Bridge
- **Commendation:**
Queensferry Crossing



Construction News Specialist Awards 2019

- **Finalist:** Project of the year <£1m - Kegworth Project of the year >£5m A14 - Great Ouse Viaduct Specialist Contractor of the year - >£25m turnover

CLEVELAND BRIDGE UK

at a glance

- Established in 1877, based in Darlington, England
- Proven track record of design, fabrication and installation of multifaceted steelwork projects.
- Combined group fabrication capacity of 150,000 tonnes per annum.
- Commitment to the highest quality standards throughout the business.
- Full suite of capabilities, from turn-key solutions to provision of product-specific services across multiple sectors.
- Highly experienced engineering team, offering design, value engineering, project and site management expertise.
- Commitment to working with local partners, providing training, experience and employment opportunities.
- Commitment to minimising environmental impact and adherence to international environmental standards.

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