

cbe+

Multiple Capabilities, Countless Combinations.

together we do **more.**

cbe+ Multiple capabilities, countless combinations.

CBE+ is a leading, multi-discipline engineering sub-contractor based in Chesterfield, UK.

We bring together a wide range of complementary core capabilities in precision engineering, electroless nickel plating, gear cutting and laboratory services.

We can provide each service independently or combine our multiple capabilities to create integrated supply chain solutions which are tailored to customer specific requirements - creating efficiencies, reducing lead times and ensuring full product traceability.

Our knowledge and expertise, combined with our continuous investment in people, technology and quality management, enable us to supply to the world's most demanding markets, including aerospace, defence, energy and renewables, oil and gas, industrial applications, medical and nuclear.

- + Electroless Nickel Plating
- + Precision Engineering
- + Gears
- + Metal Testing

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Together we do [more.cbeplus.com](https://www.cbeplus.com)



Welcome

We are delighted to welcome you to our company brochure. We are proud to offer our customers multiple capabilities, which can be combined in countless ways to create completely bespoke, integrated supply chains solutions for the most demanding sectors in the world.

It is hard to believe that only a few years ago, CBE+ was made up of four independent businesses, all of which offered huge potential for integration and synergy, yet worked completely separately, just half a mile apart.

We recognised the possibilities that working together could open up, and CBE+ evolved in 2019. Together, we have become far more than the sum of our individual offerings, creating the ethos of **'together we do more'**.

Marie Cooper
CEO

Chris Brown
Managing Director



Marie Cooper
CEO



Chris Brown
Managing Director

“Be a part of our journey ...”

cbe+ Our history

Opening of Aurora Steel and Iron Gearing Co (Wilmot North) [Pentag].

1890

World War I

1914

Aurora Gearing Co (Wilmot North) of Sheffield acquired Watling Street Group at Markyate and Fit Limited [Pentag].



1963

1960

1969



The United States' Apollo 11 was the first crewed mission to land on the Moon.

NiTEC UK and Spire Laboratories are acquired by Cooper Brown Enterprises (Marie Cooper, Chris Brown).

Spire Laboratories is established as complimentary business to NiTEC UK.

2017

2007

Cooper Brown Enterprises Ltd become partners with BG Engineering.

BG Engineering in partnership with CBE secures AS9100 accreditation for approval to supply the Aerospace sector.

2018

2019

2020

BG in partnership with CBE invest in on site pressure testing facility.

CBE+ launched as a brand.

Marie Cooper, Chris Brown take 100% shareholding.

CBE+ gain sponsorship from Leonardo to obtain ISC21 Certification.



Aurora Steel and Iron Gearing Co (Wilmot North) changed name to Aurora Gearing Co (Wilmot North) of Sheffield.

World War II begins when Germany invades Poland.

1923

1939

World War II ends when UK and USA accept Germany's surrender.

1953

1945

The Concorde aircraft made its first successful flight.



NiTEC (Derbyshire) Ltd in Clay Cross was established.



1978

BG became a private Limited Company.

2004

NiTEC (UK) moved to Holmewood Industrial Estate, Chesterfield.



2001

CBE+ implement integrated ERP system across CBE+.

Work begins to relocate NiTEC to CBE+ HQ locating all the Company's offering at the Enterprise Drive site.

2021

CBE+ add new wire EDM capabilities which complements the company's existing range of CNC milling and turning services.

cbe+

our core values

OUR VALUES UNDERPIN EVERY ASPECT OF OUR BUSINESS.

To us, customer service is so much more than simply answering queries and solving problems. It is central to everything we do. We are passionate about supporting our customers and working in partnership with them.

Building long-term relationships with our customers enables us to understand their needs on a deeper level, which in turn means that we can provide fully tailored solutions that deliver results and make a real difference to their business.

“

*Working in partnership,
to deliver fully tailored
solutions.*

”

SAFETY

The well being of our staff and stakeholders are always our number one priority. We do everything in our power to provide a safe, healthy and happy working environment.

QUALITY

We have comprehensive quality management systems in place to ensure our work is always right first time. We work together with our customers to meet their challenging specifications, develop tailored solutions and deliver to the highest standards.

DELIVERY

We know how inconvenient supply chain disruptions can be, and the impact delays can have on project time frames. We work tirelessly to ensure our customers receive their products on time, and we always go the extra mile to deliver on our promises.

TEAMWORK

AT CBE+, we believe that 'together we do more'. This applies to our employees as well as our customers and supply chain partners. We empower and encourage our people to work within and across team boundaries, to deliver new projects and communicate new ideas. When we work together, we can deliver the exceptional.

our vision...

WORLD CLASS MANUFACTURING

Vision: One unified brand, with a **multi-skilled**, engaged and empowered workforce. Delivering **business growth** and **sustainability** through **strategic partnerships** in a diverse range of sectors, using sustainable solutions, new technology and local resources.

Mission: To deliver **world-class** complementary **capabilities and services**, solving complex industry problems as a single supply chain provider.

Multiple Capabilities, Countless Combinations.

We can provide each service **independently** or combine our **multiple capabilities** to create tailored, integrated supply chain solutions - creating efficiencies, reducing lead times and ensuring full product traceability.

Multiple Capabilities, Countless Combinations.

PRE-PRODUCTION



Raw material sourcing



Design for manufacture



MACHINING



CNC Milling



CNC Turning



Gear Cutting



Wire EDM

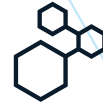
PLATING



Electroless Nickel Plating



Nickel + PTFE



Diffused Nickel Plating



CNC Turning



Painting



Assembly



Pressure Testing



Inspection



FINISHING



CONTROL

DISPATCH



Heat Treatment



Inspection



Dispatch



Testing



Packaging



Pressure Testing



Painting



Assembly



Raw Material Sourcing



Gear Cutting



Heat Treatment



Assembly



Inspection

Delivery

We know how inconvenient supply chain disruptions can be and the impact delays can have on project time frames. We always go the extra mile to deliver on our promises.

electroless nickel
diffused nickel
PTFE nickel
ENP composites
heat treatment
shot blasting



cbe+
electroless nickel

SOLUTIONS FOR THE MOST CHALLENGING OF ENVIRONMENTS

Plating, corrosion resistance and surface treatment specialists.

aerospace | defence | energy & renewables | oil and gas | rail |
industrial applications | medical | nuclear



SOLUTIONS FOR THE MOST CHALLENGING OF ENVIRONMENTS

Electroless Nickel Plating

We provide specialist surface treatments including electroless nickel plating, diffused nickel plating, shot blasting and heat treatment for customers in niche markets including aerospace, defence, energy & renewables, oil and gas, rail, industrial applications, medical and nuclear.

Electroless nickel plating (ENP) uses reactions in aquatic solutions to create a perfectly uniform, anti-rust protective nickel coating on the surface of a metal. Once applied, ferrous substrates including steel, stainless steel, copper and aluminium, can withstand extreme temperatures and environments, including attacks by chemicals, salt water and abrasive substances.

HOW DOES IT WORK?

During the electroless nickel-plating process, a nickel salt and hypophosphite solution serves as a bath for the material. Once the component is in the solution, the base material acts as a catalyst to the deposition of the nickel-phosphorous alloy onto the product.

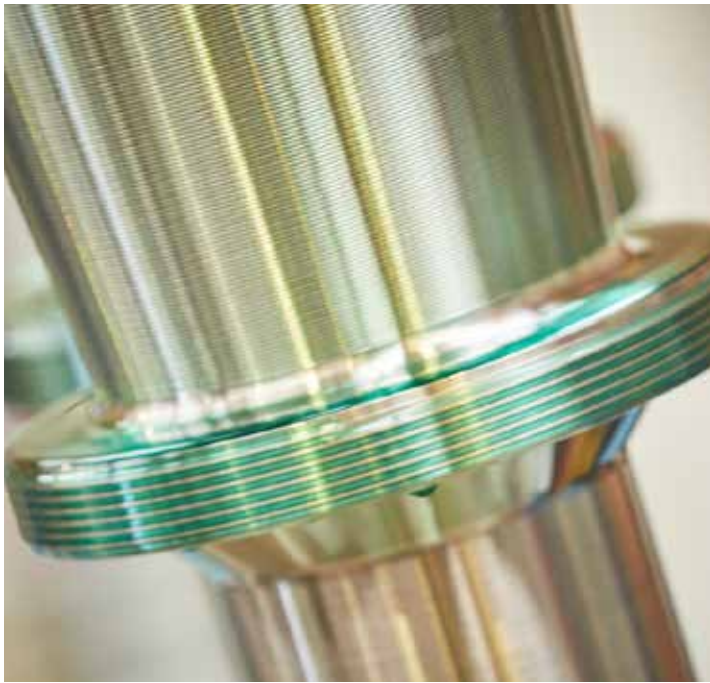
This results in increased hardness, wear resistance and lubricity, providing 30+ years corrosion protection in subsea environments.

Properties include:

- Self-lubricating - ideal in areas where friction and wear are issues.
- Resistant to corrosion.
- Even thickness, regardless of shape.
- Extends lifetime.
- Reduces cost of repair and replacement parts.
- Prevents the formation of rust.
- Tight manufacturing
- Can be hardened up to 950vhn.

ACCREDITATIONS:

Quality: AS9100 (rev.D) & ISO 9001:2015
Occupational Health & Safety: ISO 45001:2018
Environmental: ISO 14001:2015



Diffused nickel plating has all the benefits of electroless nickel plating and more. Various methods of heat treatment are employed after the initial plating, to improve the material's strength and corrosion resistance, meeting the demands of more extreme environments.

Properties include:

- Highest levels of corrosion resistance – greater than the highest-grade stainless steel
- Cheaper alternative to stainless steels.
- Ideal for marine environments.
- 30-year subsea guarantee (after 2000 hours tests were abandoned because no corrosion could be detected).
- Extensively used in the end-fittings for flexible pipelines and top-side equipment.
- Can be hardened up to 950vhn.

The heat treatments at CBE+ can be used for stress relieving and de-embrittlement as both pre-plate and post-plate treatments. High temperature heat treatment solutions are used to diffuse the electroless nickel layer into the steel, giving a degree of flexibility to the coating without jeopardising the corrosion resistance of the deposit.

We have five furnaces at our facilities – small components can be loaded onto shelves to maximise the heat treatment capacity and minimise the cost of the treatment for our customers.

The finish quality of electroless nickel plating depends on thorough surface preparation. Shot blasting is a great way to ensure each order is produced to the highest standard.

At CBE+ we have the capacity to shot blast components of up to 20 tonnes in weight. We also use aluminium oxide 180-220 grit to ensure a high standard of surface finish is achieved through heat treatment.

The shot blast booth at CBE+ used for shot blasting and heat treatment, has a capacity of 216m³ and is made from stainless steel which minimises the particles that settle on the work.

Ni-PTFE plating is a unique plating solution that combines the hardness of electroless nickel with the lubricity of Polytetrafluoroethylene (PTFE). The Ni-PTFE plating process has been used extensively in the automotive, machinery, engineering and mould and die industries.

Properties include:

- Low friction.
- Self-lubrication.
- Provides an alternative where conventional lubricants would be harmful to components.
- Corrosion prevention.
- Extended lifetime.
- Ideal for inaccessible parts.
- Anti-stick of moulds and dies.
- Reduces the sound made by slides, bearings and cylinder or piston assemblies.
- Reliable operation in cryogenic temperatures.

cbe+ electroless nickel: case study

CBE+ have become the partner of choice for a material processing business based in the UK with a parent company in Europe. The business relies upon CBE+ to accurately plate high value rollers to within a few microns in tolerance, up to 10 times each year.

Slitting and rewinding machines are used by packaging material manufacturers for various substrates such as cling film. These machines use high precision rollers to cut huge coils of product into standard size, (for example, domestic rolls of cling film).

The rollers range from approx. 8 to 10.5 metres in length and are plated in bespoke tanks purposefully built to accommodate the large components. The diameter can range from 400 to 700mm and the rollers can weigh up to 5 tonnes, making them some of the largest work undertaken by CBE+.

BENEFITS OF THE PROCESS

The business has worked in partnership with CBE+ for over 10 years, using nickel plating for its anti-galling properties, preventing the roller being corroded or worn in parts of the world with high humidity (e.g. India and China), whilst also reaping the benefit of increased lifetime and lower maintenance.



The Purchasing and Supply Chain Manager for the business explains:

"The rolls that are plated for our business by CBE+ are a key component in our largest machines serving the plastic film slitting and converting industry. Electroless nickel plating provides the necessary corrosion and wear protection that we need with the advantage that the complex rolls do not need to be machined after plating.

CBE+ are a key part of our supply chain and provide a unique facility allowing rolls over 7 metres in length to be plated as a full roll, where other platers would have to plate in two submersions which can lead to issues regarding quality. The quality of CBE+ processing is excellent and the advantage of having a very large plating tank ensures minimum risk of plating faults."

cnc turning / milling

high pressure testing facility

assembly

surface treatment

Wire EDM

The logo for cbe+ precision is located in the lower-left quadrant of the image. It features the lowercase letters 'cbe' in white, followed by a blue plus sign, and the word 'precision' in a larger, white, sans-serif font below it. The background is the same close-up photograph of hands holding a brass component.

SERVING THE WORLD'S MOST DEMANDING APPLICATIONS

Our state-of-the-art precision engineering facility takes our customers' products from 'paper concepts' to fully realised complex components. With over 30 years' experience in CNC machining, our advanced equipment, paired with the knowledge and experience of our team, allows us to provide innovative solutions for a range of mission-critical applications.

aerospace | defence | energy & renewables | industrial applications | oil & gas | rail | medical | nuclear



PRECISION

Our products are used in the most demanding industries in the world, including aerospace and defence, energy and renewables as well as in a huge range of industrial applications.

The sheer versatility of our CNC turning and milling centres paired with our highly skilled engineers allows us to machine a diverse portfolio of products and geometries. We have experience in processing forgings and castings in a range of materials, including hard and soft metals such as steel, titanium, aluminium, nimonics and super alloys.

We also offer heat treatment to enhance the components' properties. We can machine legacy parts and our reverse engineering capabilities mean that we can recreate drawings that have been misplaced.

Our highly skilled technical engineers and CNC machinists work with a wide range of materials from food grade plastics to aerospace alloys.

CNC MILLING

Capacity list:

Okuma - MB4000H - 10 Pallet Pool APC
Okuma - MA600 Twin Pallet Horizontal Machining Centre [12000 RPM]
Okuma - MA600 Twin Pallet Horizontal Machining Centre [10000 RPM]
Doosan - NM410 Vertical Machining Centre
Cincinnati - V750
Cincinnati - V500
Yang - Eagle 1000

Inspection

Brown & Sharpe Xcel 9159

CNC TURNING

We use specialist software to control our turning process, ensuring absolute precision and attention to even the smallest detail.

Capacity list

Mazak QuickTurn Smart 350
Citizen - M32 VIII Sliding Head Lathe
Okuma LB4000-EX MY x C1500
Mazak QuickTurn 200-2
Hyundai Kia SKT21LM (x2)
Mazak Multiplex 6100Y
Hydrafeed barfeed (Head-1)
Hyundai Kia SKT21

Inspection

Brown & Sharpe Xcel 915

We have 3 and 4 axis machine tools, in various sizes all the way up to our 10-pallet Okuma Flexible Manufacturing System, so we can accommodate small batch production as well as higher volume, repeat jobs.

We use the latest tooling and backup from major manufacturers to create cost savings whilst still producing tight tolerance, high quality products.

ACCREDITATIONS:

Quality: AS9100 (rev.D) &
ISO 9001:2015



WIRE EDM

These machines complement our existing range of CNC milling and turning capabilities, and allow us to create tapers, small radius, complex contours, and surface finishes within tolerances of just a few μm .

Our WEDM machines are designed to perform:

- Contour-method testing
- Slide core: precision fitting machining with accurate taper and straightness
- Thick workpiece machining: achieve straight accuracy $5\mu\text{m}$ in thicknesses of 200mm
- Multi-stepped parts machining: easy and stable production machining by PM function
- Taper fit machining: high-accuracy machining of taper complex shapes
- High-speed punch machining: high-efficiency machining of punch shapes
- Special materials machining, such as high grade steels/titanium/Inconel/brass/graphite

ASSEMBLY

Our shop floor has a dedicated area for the assembly of our customers' products. Here, we put together both simple and complex assemblies to be shipped to customers as single, finished products.

All items are tracked through the company's ERP integrated supply chain ensuring full traceability of parts. Our certified processes ensure that the relevant industry standards are always met. We have many years' experience in supplying this service to customers throughout the Gas industry both in the UK and overseas.

PRESSURE TESTING

Up to 8" diameter ANSI B16.5 CL2500 flanged products.

Up to 12" diameter ANSI B16.5 CL600 flanged products.

Up to 12" diameter ANSI B16.5 CL300 flanged products.

The test area can test to 1.5 WP x hydrostatic and 1.1 x WP ambient.

The equipment provides us with the capabilities to run rigorous testing from outside of the test room, detect the smallest leakages and carry out strength and functionality testing of valves and pressure bearing products.

The testing facility includes a complex leakage detection system and has a number of safety systems including oxygen monitoring, nitrogen extraction and interlocking controls. It is also equipped with overhead cranes with a 10-tonne lifting capacity, and a 2-tonne handling crane which is situated within the high-pressure beam test room.

cbe+ precision: case study

CBE+ work in close partnership with a start-up business which specialises in enabling technologies for health and wellbeing. Their flagship product is an innovative lamp which is programmed with different light patterns. When 'observed' through closed eyelids, the lamp produces a variety of beneficial effects including reduced stress, improved sleep quality, mood elevation and relaxation.

The business was first introduced to CBE+ in 2020. Two critical components of the innovative product are manufactured in CBE+'s precision engineering facilities.

In 2020, CEO Marie Cooper offered the business a workspace within the company's Chesterfield site. The company's Managing Director who had been running the business from his home, jumped at the chance to set up office space and a production line. Just six months later, the company were hitting their targets of producing 30 lamps per month, with aspirations to grow both their sales and product offering over the next 12 months and beyond.



The company's Managing Director explains:

"CBE+ are excellent to work with. Throughout the development stage, I worked closely with the engineers at CBE+, to solve challenges, getting me to where I wanted to be, quickly and efficiently. The product quality is outstanding, and the delivery and customer service have been second to none.

CBE+ are not just a supplier, they are a partner to our business. They have provided everything I needed to get this business off the ground. I have gone from making prototypes at home, to filling my orderbook and securing sales partners abroad. At Enterprise Drive, I have been able to set up an office, expand my team from one to four, and establish a production line. My vision has materialised here. The facilities, the location and the opportunity that CBE+ have given me has been life changing."



cbe+

150mm diameter up to 16 metres
up to 2500mm wide
spur gears
single helical gears
double helical

cbe+
gears

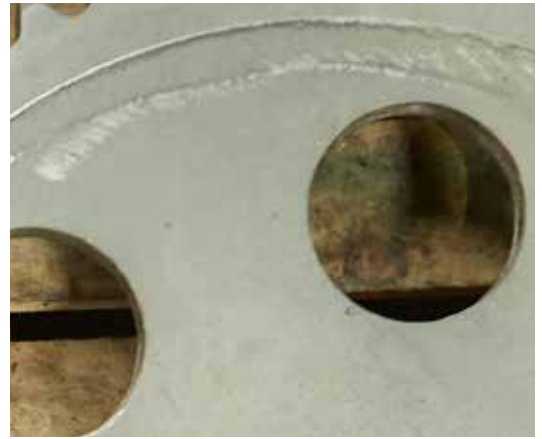
Over 100 Years' experience in the design and manufacture of all types of gears for industrial applications.

oil & gas | rail | processing | mining | Industrial applications



cbe+

gears



At CBE+, we have over 100 years' experience in the design and manufacture of all types of gears for industrial applications, from millimetres, up to 16 metres.

Our traditional gear cutting applications, combined with our CNC machining facilities, means that we can offer premium finishing to the gears we produce.

Our gears have been used in many different applications from the London Underground escalator systems to overseas pumps extracting oil.



IN-HOUSE CAPABILITIES

Sunderland 16 - Double Helical

Overall diameter - up to 840mm
 Face (width) - up to 160mm
 Tooth pitch - up to 18 mod.

Sunderland 16 - Spur

Overall diameter - up to 700mm
 Face (width) - up to 160mm
 Tooth pitch - up to 18 mod.

Sunderland 27 - Double Helical

Overall diameter - up to 2600mm
 Face (width) - up to 450mm
 Tooth Pitch - up to 26 mod.

Sunderland 27- Spur

Overall diameter - up to 2600mm
 Face (width) - up to 450mm
 Circular Pitch - up to 26 mod.

Sunderland 19 - Double Helical

Overall diameter - up to 1430mm
 Face (width) - up to 250mm
 Tooth pitch- up to 20 mod.

Sunderland 19 - Spur

Overall diameter - up to 1430mm
 Face (width) - up to 330mm
 Tooth pitch - up to 26 mod.

Webster Bennet vertical borer -

overall diameter 1380mm

Webster Bennet vertical borer

overall diameter 2140mm



GEARBOXES

CBE+ offers an industrial gearbox refurbishment service. We can refurbish all types of industrial gearboxes either on-site or in our workshop. We offer a collection, delivery and installation service if required. We can also supply gearboxes designed and built for your individual requirements.

cbe+ gears: case study

In 2016 CBE+ were chosen to make eight gears for the thrusters on the £200 million polar research vessel, to enable the ship to manoeuvre accurately in heavy ice water.

The ship was built to be a next-generation polar marine science platform, providing world-leading capability for UK research in both Antarctica and the Arctic. It has an endurance of up to 60 days unsupported at sea, enabling it to undertake longer voyages to open new, remote locations for science.

CBE+ gears attained the £65,000 order to make eight gears for the thrusters, which were a vital part of the stern thrusters. The business was chosen due to its strong and impressive history of producing gears used in marine and oilfield applications in the UK and abroad.



The vessel takes on supplies before starting sea trials. Merseyside, UK

Andrew Larkin (Sales and Production Operative at CBE+), who has more than 30 years' experience in gear manufacturing explains:

"The gear thrusters we produced for the vessel were six feet in diameter and 150kg in weight. As part of this commission, we also produced much larger components, which were the key components in turning of the stern thrusters. These were installed into the Hull to direct the ship. Each weighed 15 tonnes, stood 3 metres high, and produce 1,576 kW of thrust.

The ship is one of the most advanced polar research vessels in the world. The order was one of the most prestigious we have received as a business, and we are proud to have contributed to a vessel, in what has been, and will continue to support scientists conducting vital research in the polar regions."



cbe+

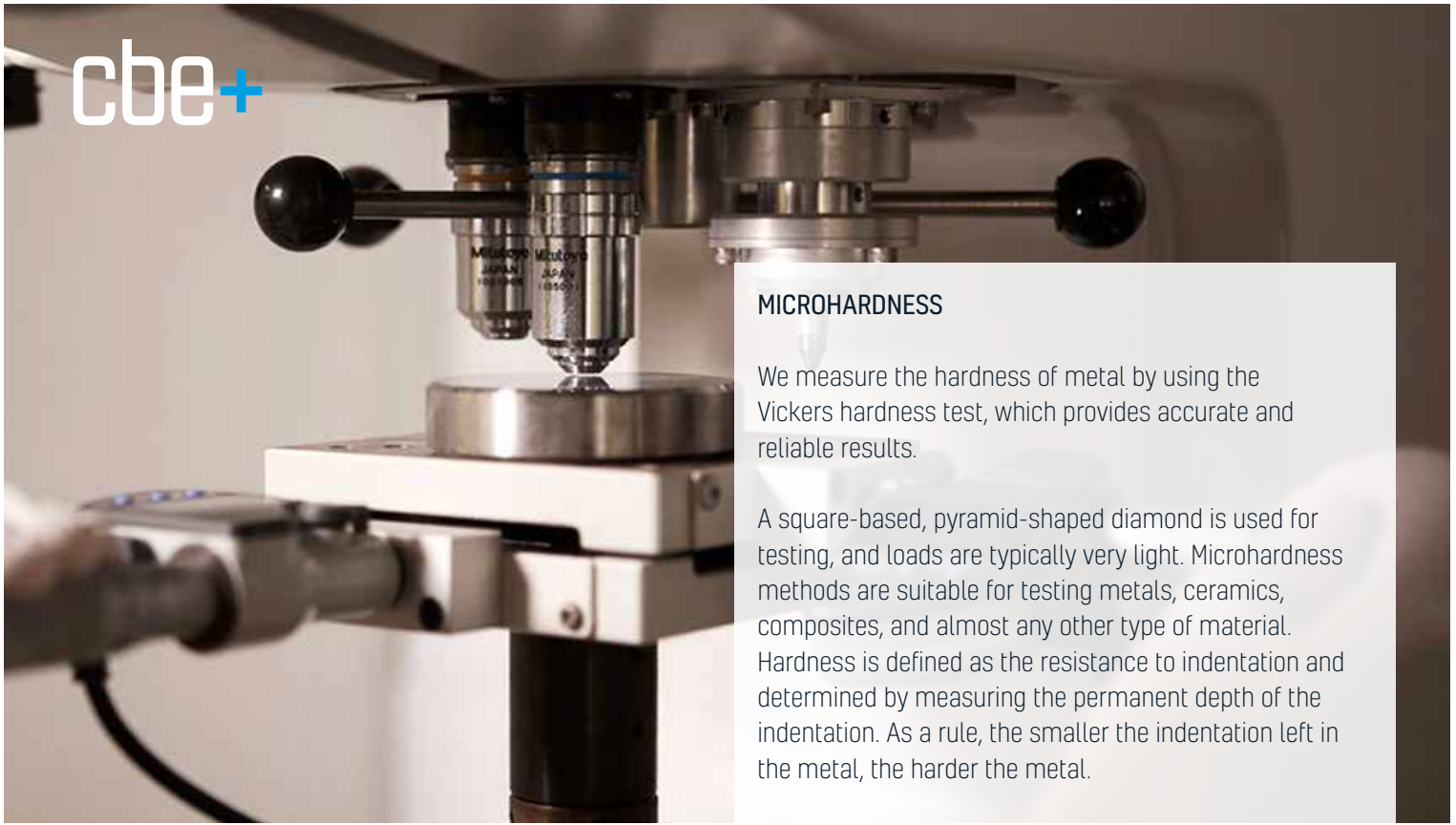
adhesion testing
microsection
microhardness
salt spray test
kester nich testing

cbe+
laboratories

**Modern, purpose-built, metal testing facilities,
managed according to the strictest of quality
control procedures.**

Our ongoing investment in instrumentation and cutting-edge quality management systems means that we can obtain results using non-destructive testing methods, ensuring that quality is maintained.

oil & gas | aerospace | defence | energy & renewables | industrial applications



MICROHARDNESS

We measure the hardness of metal by using the Vickers hardness test, which provides accurate and reliable results.

A square-based, pyramid-shaped diamond is used for testing, and loads are typically very light. Microhardness methods are suitable for testing metals, ceramics, composites, and almost any other type of material. Hardness is defined as the resistance to indentation and determined by measuring the permanent depth of the indentation. As a rule, the smaller the indentation left in the metal, the harder the metal.

To provide accurate results, we ensure that the surface of the specimen is smooth, in order to permit a regular indentation shape and good measurement.

The specification for hardness testing is **ASTM E384**.

SALT SPRAY TESTING

The salt spray test is widely used in the industrial sector. Salt spray testing (salt fog testing) assesses the reliability of a product by simulating extreme environments, therefore confirming that an industrial coating will survive in its working environment. The salt spray test is used to check the corrosion resistance of coated samples, substrates and components which may be prone to suffering from degradation because of salt corrosion.

The test is conducted in a closed salt spray chamber, where the sample is subjected to extended exposure to a saline spray. The length of the exposure time is determined by the material, the coating, and the standard specified.

The salt spray test can be adapted to different levels of corrosion to simulate different environments. As a rule, the more resistant the coating is, the longer the period in testing without showing signs of corrosion. Our expert team are then able to evaluate the part for evidence of corrosion, enabling us to determine the resistance of the sample, ensuring its longevity and reliability.

The specification for salt spray testing is **ASTM B117**.

ADHESION TESTING

The adhesion of a coating to its substrate is essential to the long-term performance of the coating itself. CBE+ laboratories perform bend tests in accordance with ASTM B571. This includes the part being bent over a mandrel and the deformed area being examined under a low magnification (4X) for peeling or flaking of the coating from the substrate.

MICROSECTION TESTING

To carry out a microsection test, a shim of identical material is plated alongside a customer's component, using the same method. The plated shim is then cut up using a diamond-bladed cutting tool to minimise vibration and ensure accuracy.

The resulting sample is then set in clear resin and polished to a fine finish. The surface of the sample is then etched in an appropriate chemical solution to allow the nickel or diffusion layer to be examined under the microscope.

A UKAS-calibrated slide is used to accurately calibrate software used to measure these layers, determining the thickness of the cross-section under an optical microscope, allowing CBE+ to certify the specification of customers is met.

The specification for micro-section testing is **BS EN ISO1463 & ASTM B487**.

KESTERNICH TESTING

We provide specialist Kesternich testing (sulphur dioxide testing) services for a range of metals and metal plated components. Resistance to corrosion is measured in Kesternich cycling.

Parts or panels are placed inside a specially designed chamber and are exposed to SO₂. The chamber in use at CBE+ Laboratories meets the highest safety standards and allows us to create the perfect conditions to carry out accurate and controlled Kesternich testing. The dosing of the SO₂ gas is controlled during the test to accurately simulate exposure to chemicals that may be met in natural environments. An evaluation is then carried out to determine the level of corrosion resistance. Our Kesternich testing services are available to customers worldwide.



cbe+ integrated case study

INTEGRATED SUPPLY CHAIN

CBE+ have a long-standing relationship with a UK company who specialise in DNA sequencing technology. The copper components used in this technology were electroless nickel plated by CBE+.

The businesses worked in partnership to identify issues and to minimise non-conformities in the products plated. This was executed by conducting in-depth pre-plate and post-plate inspections.

To simplify the supply chain and offer the benefit of through process control in quality management and reduced risks, CBE+ proposed to machine the parts in addition to plating.

By working together to conduct a trial order utilising CBE+ integrated supply chain solutions, the trial proved a success. Through the advantage of CBE+ integrated services, the customer was able to establish their own individual tailored supply chain. This resulted in the company placing a follow-up order for 1000 parts, and these continue to present day.

CEO Marie Cooper commented:

'We supply businesses at the forefront of medical technology, who are helping to tackle the worldwide COVID-19 crisis. CBE+ are proud to be working with them and to play an integral part in their continued success.'



Quality

'Right first time' describes our approach to quality and inspection. We capture, measure and monitor data from all areas of our business to continually improve how we operate as a company.

We know that we are 'only as good as our last part' and on that basis we employ a full-time inspection department to ensure that all parts reach our customers 'right first time'.

We foster a culture of quality at CBE+, with every operation performed by highly trained engineers and inspectors, ensuring all processes are completed in accordance with customer specifications and standards.

Our company objectives are set and monitored by our Directors and are subject to formal evaluation as part of our regular QMS management reviews. All our employees are committed to implementing the requirements documented in our Quality Manual and are responsible for ensuring these quality standards are applied to all aspects of their work.

CONTROLLING ALL ASPECTS OF PRODUCTION

CBE+ operates an engineering and manufacturing focused ERP system, controlling all aspects of production from quotation, part & process build up through to finite capacity planning and scheduling. The systems provides complete traceability through its comprehensive works order management facility and shop floor data collection system.





cbe+
partnerships

THE VULCAN EXPERIENCE



A new home for Avro Vulcan XH558

Operation Safeguard is a major fundraising campaign to build **The Vulcan Experience**, a dedicated new home at Doncaster Sheffield Airport (DSA) for Vulcan XH558.

The Vulcan Experience will offer:

- Full access to XH558 and her story
- A national centre that genuinely tells the story of the Cold War and commemorates the men and women who kept us safe
- A "V-Fores Memorial Wall" to honour those who lost their lives keeping us safe during the Cold War
- Events venue in a truly unique setting
- The Green Technology Hub initiative where youngsters, already engaged by climate change urgency, are inspired to become engineers, scientists in tackling the problems we face.

OPERATION SAFEGUARD

Our strong sense of corporate social responsibility is reflected by the initiatives we get involved in.

We support ongoing projects in our communities to help improve them.

Together we do **more**

cbe+ Partnerships

GET UP TO SPEED WITH STEM

CBE+ are headline sponsors of **Get up to Speed with STEM**. This annual event is designed to offer young people, their families and their teachers, the opportunity to experience the UK's latest innovations first-hand.

Get up to Speed with STEM is an event led by The Work-Wise Foundation, which aims to showcase STEM [Science, Technology, Engineering and Mathematics] related careers to young people and offers the opportunity for businesses from across the country, to engage with the next generation and each other.

getuptospeed.org.uk



THE WORK-WISE FOUNDATION



The Work-Wise Foundation is an employer-led charity for STEM fields such as engineering and manufacturing. The Company supports the development of young people so they have the knowledge, skills, aptitude and opportunities for employment within the Sheffield City Region.

Marie Cooper, CEO of CBE+, is a Trustee of The Work-Wise Foundation and has supported them for over 10 years.

CBE+ supports the Foundation throughout the year by participating in various education schemes and events.



work-wise.co.uk



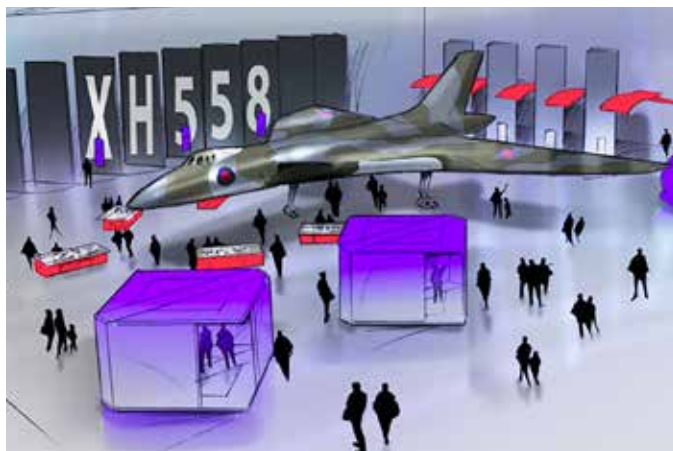
VULCAN 558 EXECUTIVE ALLIANCE

CBE+ has joined forces with The Work-Wise Foundation to engage with local schools who will work together on several projects to help the Vulcan to the Sky charity. The partnership is set to inspire the next generation of engineers in a project that supports the Trust's latest fundraising drive - Operation Safeguard.

CBE+ are currently housing an original Fuel Tank (as used in the conversion of Vulcan to a tanker) and two spare original Delta Wing Tips from the stock of parts used to maintain the iconic British engineered Vulcan XH558, delivered by the Trust for preparation, restoration, and subsequent display in The Vulcan Experience.



VULCAN TO THE SKY TRUST
HONOURING THE PAST, INSPIRING THE FUTURE



GET INVOLVED:

VULCAN TO THE SKY TRUST

Email: enquiries@vulcantothesky.org
vulcantothesky.org

Chris Brown, CBE+ Managing Director with students on-site at CBE+, inspiring the next generation.

CBE+ CLUB SPONSORS

CBE+ is the sponsor of New Tupton Ivanhoses Under 12's team. New Tupton Ivanhoe Football Club under twelves, play in the North Derbyshire Youth Football League and were having to rely on bibs and a hand-me-down away kit. until CBE+ came to the rescue.



CBE+ are also Team sponsors of Tupton Rugby Club, providing a full rugby kit.



CHESTERFIELD - A CORNERSTONE BUSINESS

CBE+ is a Cornerstone business, supporting the North East Derbyshire District Council to strengthen the area and ensure it is a great place to live and work.

CBE+ are also members of the Clay Cross Skills Working Group which forms part of the North East Derbyshire District Council.

cbe+ partnership

CBE+ continuously aims to support and inspire young people regarding their future and the opportunities open to them, helping them to develop the knowledge, confidence, and employability skills to succeed in future careers, particularly within the areas of engineering and manufacturing.

INSPIRING THE NEXT GENERATION

From the beginning CBE+ have supported a wide range of activities and events delivered by The Work-Wise Foundation. This extends from strategic, to sponsorship and resources, through to staff time and skills to support these events and activities.

As a headline sponsor and contributor to the annual **Get up to Speed with STEM**, CBE+ have helped, reached and inspired over 20,000 young people. Additionally, they have regularly set challenges and competitions for students from primary to college age, hosted events from school's visits and workshops to business recruitment breakfasts. Their staff frequently attend and support a range of activities from in-school STEM inspiration days, to employability conferences and interview skills practice. They have also provided work experience placement and opportunities for those interested in careers in Engineering.

"Leading by example, CBE+ have helped and inspired others to engage and support our activities."

"There is no doubt that the support provided by CBE+ has helped, shaped and changed the employment and life opportunities of many young people within the region."

John Barber
Chief Executive & Co-Founder/Chair
Get up to Speed with STEM Steering Group.
The Work-Wise Foundation.

"Through local partnerships, CBE+ have helped and inspired over 20,000 young people."



Marie Cooper, CEO of CBE+ has supported the Work-Wise Foundation for over 10 years.



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