



FABRICATION



**COST-EFFECTIVE, QUALITY
ENGINEERING & FABRICATION
SERVICES - 24 / 7 OPERATIONS**

WELDING & FABRICATION SPECIALISTS

- DESIGN / DETAIL DRAWING
- STRUCTURAL CALCULATIONS
- LASER CUTTING & WATERJET CUTTING
- MIG, TIG & SAW CODED WELDING
- ROBOTIC MIG & TIG WELDING
- LARGE CNC MACHINING
- ON-SITE-INSTALLATION





INTRODUCTION

WEC Fabrication offers a one-stop-shop service at our state-of-the-art facilities, with all metal fabrications carried out in-house. From initial design through to installation, we are here to provide you with the support you require for your project.

Our skilled engineers are conversant in all aspects of fabrication from light fineline sheet metalwork through to small, medium and large fabrications. Our clients require both bespoke and batch work fabrication in various metals including mild steel, boiler plate, corten, 304/316/2205 stainless steel, monel, titanium and invar; we've even been known to work with platinum!

Working to ASME, BSEN standards our team are highly skilled in areas such as sheet metalwork, fabrication, fitting, metal polishing and Coded Welding; MIG, TIG, MMA and Submerged Arc Welding in all disciplines.

With over 35 years experience, we can guarantee you're in the right hands for all your metal fabrication requirements.

LARGE MACHINING

We provide large machining services to a broad range of niche industries requiring specialist, high accuracy, quality parts such as Defence Land Systems, Marine & Subsea projects, Nuclear, Aerospace and Oil & Gas.

Operating from purpose built facilities we are able to carry out entire projects in-house right through from the initial consultation, to the fabrication, machining, installation and final inspection of the completed product.

With a wide range of state-of-the-art equipment, we have the ability to undertake large batch work or individual one-off pieces.

- **Milling capacity** (up to):
11.5m x 1.5m x (2.5m + 0.45m)
- **Turning capacity** (up to):
480mm dia & 1583mm length with 85mm bar feed
- **Craneage facilities of up to 30 tonnes**
- **Mill / Turn capacity** (up to):
920mm dia & 4m length



Accredited to
ISO 9001:2008 standard,
we regard quality as
imperative



Link-up: Registered
Link-up: Qualified Via Audit



NUCLEAR

We work to a 100% right first time ethos with a highly skilled workforce, detail design and **3D solid modelling** techniques, **lifetime quality records (LTQR)** and **Non-Destructive Testing (NDT)** methods.

We have experience with containment vessels, pressure vessels, hoppers and chutes to name but a few recent projects, and have a comprehensive range of facilities available at all times.

AEROSPACE

We are well-versed in the manufacture and installation of aerospace equipment.

We possess a wealth of experience in the fabrication of skin and egg box mould tooling in invar, aluminium and mild steel, as well as the fabrication and inspection of specialist ground equipment. We possess excellent facilities which enable us to work on large scale fabrications such as wing-jigs, as well as experience in the installation of such equipment.

PRESSURE VESSELS

We have been involved in various pressure vessel projects including flourine cells to **PED5500 Cat 2**, and diver's decompression chambers to **BSEN5500 Cat 1** standards.

All work is carried out in line with **PED 97/23/EC** standards; **BSEN5500** and **ASME8**. All our welding qualifications are assessed by PED assessment bodies ensuring all pressure vessels meet the necessary quality levels. We provide 3rd party notified body inspection, **qualified NDT testing** and **hydrostatic/air testing**. Our maximum capacity is 6m diameter to a maximum of 30 tonnes in a single fabrication.

MOTORWAY STRUCTURES & INSTALLATIONS

We are experienced in the design, fabrication & installation of motorway structures such as gantries and CCTV equipment.

Our workforce offers a wealth of skills and experience, including qualified slinger banks men. We work with many civil contractors in the industry, throughout the UK and Northern Ireland.

In-House Training Academy:

The only in-house Welding and Fabrication apprenticeship scheme of its kind in the UK, WEC Groups advanced 5 year apprenticeship provides individuals with the skills & qualifications required to carve out a career in Engineering.

CE Marking:

We produce structural fabrications in-keeping with the latest CE Marking regulations and requirements.



“ NO JOB TOO BIG, ...OR TOO SMALL ”



RAIL SERVICES

We provide innovative design, fabrication and installation services to the rail industry. We take credit for many of the rail structures across England and Wales including *footbridges, signal structures & gantries, cantilevers, rollingstock metalwork, electrical enclosures and CCTV products.*

We keep as much work in-house as possible eliminating the need for external contractors and employ expert fitters, welders and fabricators including **PTS accredited** staff, **slinger banks men** and **IPAF accredited MEWP operators** to achieve this. Our design team has the capabilities to develop bespoke structures for particular location difficulties.

We provide **Form B and Category 2 design checks** and are involved in the design, fabrication & installation of disability, elderly and family friendly pedestrian footbridges and station structures for the DfT's 'Access for All' Programme. We are also experienced in rail refurbishment, including the safe disposal of redundant equipment and structures.

Our team are extremely flexible and we've even been known to work on Christmas Day!

SMALL FABRICATIONS

WEC Fabrication caters for many small fabrication requirements. With 185,000 sq. ft. manufacturing floor space, comprehensive capacity list and 24/7 operations in place, we are ideally placed to offer small fabrication services including sheet metalwork, one-off, prototype and small batch orders.

We can ensure fabrication quality to the UK's highest standards, without the added costs involved when using a company geared-up to cater for large projects alone.

ARCHITECTURAL METALWORK

Working with public artists, architects & regeneration specialists to provide fabrication expertise, design, consultation & installations, we can provide a range of services to deliver any stainless steel fabrication requirement.

Our range of architectural Metalwork services include stainless steel sculptures, stainless steel public art, stainless steel bridges, canopies, staircases, lighting and seating. We also specialise in bespoke architectural fabrication, form work & concrete moulds.

CONTACT US - WEC Fabrication:

Please send any fabrication enquiry to us and we will turn it around quickly with our most competitive quotation.

Tel: +44 (0)1254 773718 | Email: fabrication@wecl.co.uk

Web: www.welding-eng.com

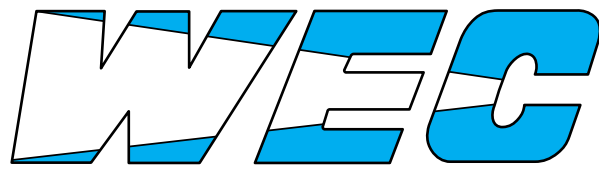
Web Enquiries:

Rail: wecrail@wecl.co.uk

Nuclear: nuclear@wecl.co.uk

Large Machining: largemachining@wecl.co.uk

Architectural: m-tec@wecl.co.uk



FABRICATION

WHAT WE CAN DO FOR YOU

WEC Group employs over 425 staff occupying 185,000 square foot of facilities all specialising in different areas, meaning there's a wealth of services available to you...

WELDING & FABRICATION	Coded TIG, MIG & ARC welding; Robotic TIG & MIG welding, oxy-acetylene & arc welding, spot welding, stud welding, brazing and soldering. In-house facilities for small to large fabrications & heavy engineering.
SHEET METALWORK	CNC Bending & Folding capability up to 4m long and 250 tonnes. CNC Punching. CNC Press Brake.
LARGE MACHINING	Comprehensive in-house machining capabilities are available for CNC machining, CNC turning and conventional milling, turning, grinding, drilling etc.
LASER CUTTING	Flat-bed, Tube & Box-section with a 4m x 2m bed size. Stainless steel up to 30mm thickness, Aluminium up to 20mm thickness. Copper, Brass & other non-ferrous metals up to 6mm thickness.
WATERJET CUTTING	Capacity of waterjet cutting any material up to 200mm thickness with a bed size of 4 x 2m, with an accuracy that matches machined tolerances of +/- 0.1mm.
TURNING MILLING GRINDING DRILLING TAPPING	Centre lathes, capstan lathes, bar automatics Universal / horizontal / Vertical. up to 11.5m length. External, internal, surface Radial, multi-column, pillar bench Column and bench
ASSEMBLY	Mechanical, electro-mechanical & hydro-mechanical assembly facilities.
TOOL ROOM	Our well equipped tool room supplies both our internal need and external customer requirements for jigs, fixtures and prototype manufacture, with CMM measuring machines.
ANCILLARIES	In-house plant and equipment for: sawing (horizontal, vertical and circular), polishing, finishing and paint spraying.
FINISHING	In-house Vapour blasting, mechanical polishing and paint spraying to specification. For your hardening, electro-plating and other treatment requirements, we have long standing arrangements with specialists in these processes.
PRESSING / FORMING	Pressbrakes, folders



Structural Steel CE Marking





FABRICATION

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MEETING YOUR NEEDS:

We produce a wide and diverse range of metal fabricated structures; we undertake projects large and small and are happy to provide quotations for specialised single products or batch orders.

- Fast Quotation Turnaround
- Highly Competitive Prices
- Competitive Lead Times
- Nationwide Delivery
- 100% Quality Right First Time
- Material Stock

**WELDING
ENGINEERING**

WEC
LARGE MACHINING

WEC
RAIL

WEC
NUCLEAR

m-tec
Specialist metal fabricators and consultants

**24 / 7
Operations**

a division of

WEC
GROUP

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