

CAPABILITY BROCHURE

STRUCTURAL STEEL, STAINLESS & ALUMINIUM FABRICATION

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Precision fabrication, crafted with expertise and built to last. Designed, fabricated and installed by one in-house team.

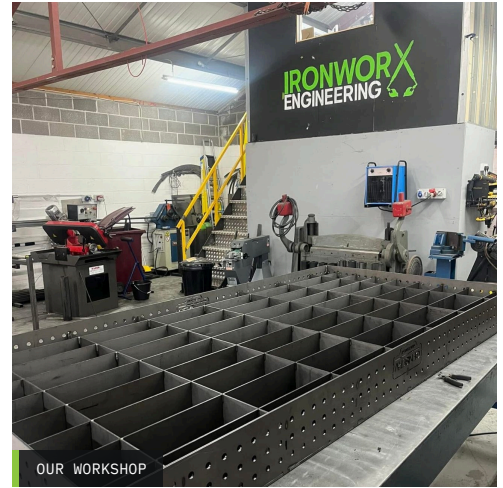
WE BUILD THE STEEL THAT KEEPS YOUR PROJECTS STANDING.

Ironworx Engineering is a Manchester-based specialist metal fabrication company, delivering structural steel, bespoke metalwork and site-ready installations across the UK.

Since our launch in 2023, we have been helping architects, developers and industrial clients bring bold ideas to life using bespoke steel, stainless steel, aluminium and pipe welding.

We work with main contractors, developers, architects and industrial sites that need steelwork done right: safely, accurately and without hold-ups. From one-off builds to large-scale packages, we are known for our precision, professionalism and straight-talking approach.

We are not just welders. We are project partners. Practical, professional and trusted by contractors and engineers who need the job done right, first time.



OUR WORKSHOP



IN-HOUSE WELDING

2023

Launched in 2023. Manchester-based, with strong roots across the North West

3

Core materials: mild steel, stainless steel & aluminium

EN 1090

Structural packages CE marked & compliant with BS EN 1090

UK

Local to the North West, delivering projects nationwide

WHAT SETS US APART

CE-marked and fully certified

We meet every compliance requirement with zero shortcuts.

Design, fabricate and install

Handled in-house for full quality control and tighter turnaround.

Experienced across sectors

Including commercial, industrial, education, retail and more.

Reliable from first call to final bolt

We keep our word, meet our deadlines and solve problems fast.

Manchester-based, UK-wide

Local to the North West, trusted nationwide.

IF IT NEEDS FABRICATING, INSTALLING OR FIXING, WE'RE THE TEAM THAT MAKES IT HAPPEN.

DESIGN. FABRICATE. INSTALL.

From concept to installation, we are the team that gets it done right.

We don't just cut and weld. We think, plan and deliver with care, because when the steelwork is right, the rest of the job runs smoother. Our in-house team combines practical experience with technical skill, and we understand how our work fits into the bigger picture.

Whether it is a complex mezzanine install or a batch of custom brackets, we apply the same high standards every time.

01

TALK

Every project starts with a conversation, not a sales pitch. You talk, we listen.

02

SURVEY

Site survey and measurement, so everything is made to fit first time.

03

DETAIL

CAD support and fabrication drawings. We build to spec, not assumptions.

04

FABRICATE

Cutting, welding and assembly in our own workshop for full quality control.

05

FINISH

Polished, painted or galvanised finishes to suit the setting and the spec.

06

INSTALL

Installed by our own team, safely and to programme. We don't leave until it fits.

OUR WORKING PRINCIPLES

01

You talk, we listen.

02

We build to spec, not assumptions.

03

We collaborate with your team to keep everything on track.

04

We do the job properly, or we don't do it at all.



3D STAIR DESIGN MODEL

Who we work with

Main contractors

Developers

Architects

Engineers

Industrial & manufacturing sites

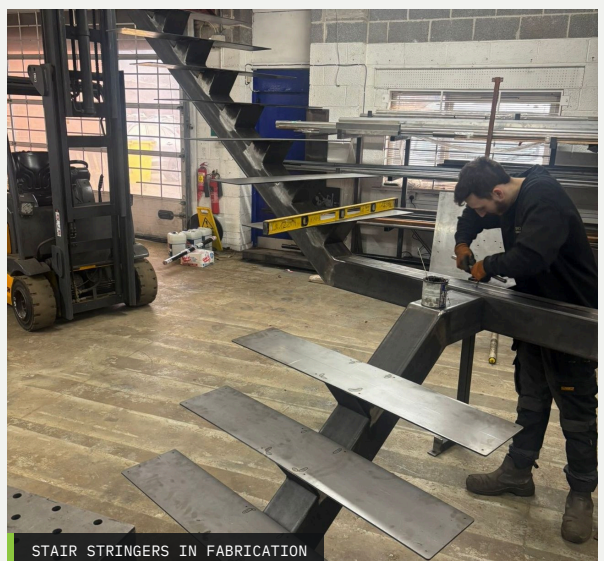
Food & drink producers

From supply-only steel to full fabrication and install, we scale to your needs and your deadlines.

FAST LEAD TIMES

SHARP
ATTENTION TO
DETAIL

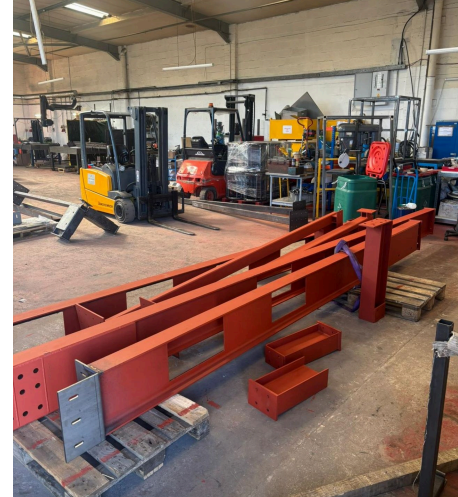
RIGHT FIRST TIME



STAIR STRINGERS IN FABRICATION



STRUCTURAL STEEL LIFTED INTO PLACE ON A CITY-CENTRE SITE



03 STRUCTURAL STEEL

BUILT TO SPEC. DELIVERED ON TIME. ENGINEERED TO LAST.

We fabricate structural steelwork for buildings, access platforms, support frames, mezzanines and more, combining hands-on experience with modern fabrication techniques.

Our team works closely with contractors, developers and engineers to meet design specs, tight programmes and site constraints. Whether it is a single beam or a full package, we treat every job with the same attention to detail.

We fabricate

- Beams, columns & portal frames
- Stair cores, walkways & supports
- Brackets, baseplates & structural details
- Platforms, gantries & plant steel
- Mezzanine floors, loading areas & structural frames
- Bespoke one-off steelwork to drawings or brief

Why contractors choose us

Experienced fabricators

Delivering structural packages for commercial, industrial and bespoke builds.

Fast turnarounds

In-house machinery and a responsive team, without compromising quality.

Built for site

Everything is made to fit, with real-world installation in mind.

Flexible to your project

Supply-only steel through to full fabrication and install.

BS EN 1090

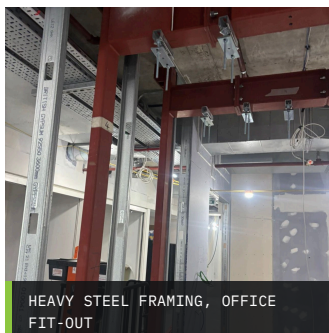
Beams, columns and full structural packages, all CE marked and compliant with BS EN 1090.

PACKAGE OPTIONS

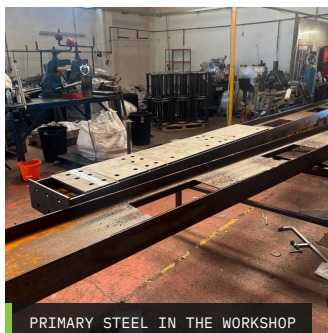
- ✓ Fabrication drawings & detailing
- ✓ Supply only
- ✓ Fabricate & deliver
- ✓ Full fabricate & install



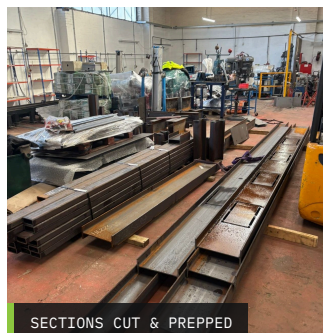
NEW STEEL WITHIN A HISTORIC SHELL



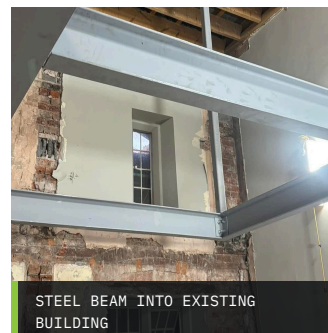
HEAVY STEEL FRAMING, OFFICE FIT-OUT



PRIMARY STEEL IN THE WORKSHOP



SECTIONS CUT & PREPPED



STEEL BEAM INTO EXISTING BUILDING

STRUCTURAL STEELWORK FOR HILL DICKINSON'S MANCHESTER OFFICE

A full structural steelwork package for the law firm's prestigious new office in Manchester city centre.

CLIENT
WJ Structures

MAIN CONTRACTOR
DENTON

END USER
Hill Dickinson

LOCATION
**No.1 St Michael's,
Manchester**

OUR SCOPE
**Drawings, supply &
install**

OVERVIEW

Ironworx Engineering was engaged by one of our key clients, WJ Structures, to deliver a full structural steelwork package for Hill Dickinson's new city-centre office. The wider fit-out created an 18,200 sq ft workspace on the top office floor of No.1 St Michael's.

THE CHALLENGE

The project demanded the resolution of numerous design challenges, particularly the strict tolerances required to integrate extremely heavy sliding glass door partitions into the structure.

WHAT WE DELIVERED

- /// Detailed fabrication drawings
- /// Supply of complex bespoke steelwork
- /// Fabrication in our own workshop
- /// Installation on site, working closely with DENTON



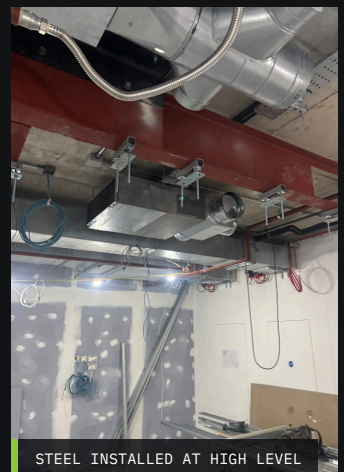
PRIMED STEEL READY FOR DELIVERY



COLUMN FABRICATION



FRAMING FOR HEAVY GLASS
PARTITIONS



STEEL INSTALLED AT HIGH LEVEL

THE RESULT

A successful installation that met both the architectural intent and demanding performance standards, with practical, efficient solutions and a high level of technical expertise throughout.

ENGINEERED FOR STRENGTH, PRECISION & DESIGN IMPACT.

From industrial fire escapes to architectural centrepieces, we design, fabricate and install staircases, balustrades, handrails and walkways that combine form and function.

Whether you need a feature staircase for a public space or a hard-wearing solution for an industrial site, we fabricate everything in-house, tailored to your spec, layout and finish. All systems are built to meet UK Building Regulations.

We produce

- /// Straight, spiral & helical staircases
- /// Glass, steel or mixed-material balustrades
- /// Wall-mounted & freestanding handrails
- /// Tread detailing & architectural fixings
- /// Access platforms, walkways & fire escapes

Materials & finishes

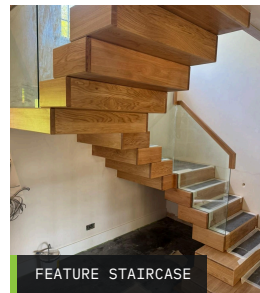
MATERIALS Mild steel, stainless steel & aluminium

FINISHES Polished, painted or galvanised

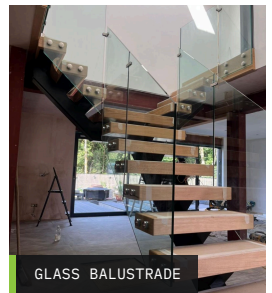
SURVEY **CAD** **FABRICATE** **INSTALL**



STAINLESS HANDRAILS INSTALLED ON SITE



FEATURE STAIRCASE



GLASS BALUSTRADE

IN-HOUSE CAPABILITY

MANDREL TUBE BENDING & POLISHING

Our **Transfluid DB 2076** mandrel tube bender lets us form handrails, balustrade rails and tube frames in our own workshop. A mandrel supports the tube from the inside as it bends, so each bend stays round and smooth, without the wrinkling, flattening or kinks you get from basic benders.

Bent sections are then welded, dressed and polished in-house, giving a consistent, clean finish from the first bend to the last post.

- ✓ Continuous, flowing handrails with fewer joints
- ✓ Consistent, repeatable bends across batches
- ✓ Stainless, mild steel & aluminium tube
- ✓ Shorter lead times, with no outsourced bending

76_{mm}

MAXIMUM TUBE DIAMETER*

In-house

BEND, WELD & POLISH

*Machine capacity. Achievable sizes and radii depend on tooling and wall thickness.



TRANSFLUID DB 2076 MANDREL TUBE BENDER



BENT STAINLESS HANDRAILS ON THE JIG TABLE

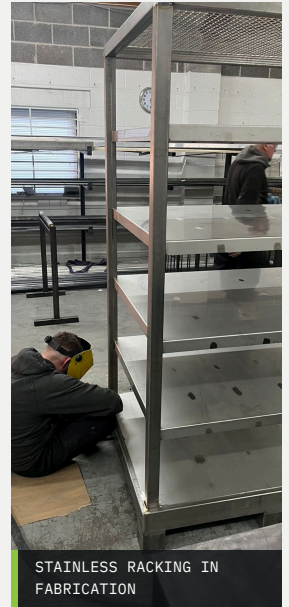
HYGIENIC, FOOD-SAFE STEELWORK FOR PRODUCTION ENVIRONMENTS.

Stainless fabrication built to perform: clean, strong and made to meet the strictest hygiene and durability standards.

Based in Manchester and working across the UK, we work with food manufacturers, drink processors, industrial kitchens and packaging facilities. We understand the demands of food-grade environments, from washdowns and inspections to tight turnarounds and production schedules.



STAINLESS MESH CAGE



STAINLESS RACKING IN FABRICATION

What we fabricate for food & beverage sites

Platforms & access structures

Easy-clean, anti-corrosion, hygienic-grade steel for safe and efficient site access.

Food-safe guarding & cladding

Hygienic barriers and stainless cladding to keep your site safe and audit-ready.

Secondary structural steelwork

Mezzanine floors, loading areas and structural frames, fully CE marked.

Conveyor & equipment support frames

Tailored structures to integrate with existing lines, mixers, tanks and machinery.

Bins, trolleys & hoppers

Mobile, durable and made to measure for your handling needs.

Benches, brackets & framework

Fully welded prep benches and custom framework made to fit existing kit.

EXPERIENCE INCLUDES

- ✓ Ready meal producers
- ✓ Meat & poultry processors
- ✓ Bakeries & confectioners
- ✓ Bottling plants
- ✓ Cold storage & chilled food
- ✓ Food & drink packaging lines

BUILT FOR COMPLIANCE

Designed with hygiene, safety and BRC audits in mind. Fast, flexible service, working around shutdowns and live production.



MESH TRAYS



STAINLESS SHELVING



CONVEYOR SUPPORT FRAME



WELDED STAINLESS FRAME

WE DON'T JUST BUILD STEEL, WE BUILD TRUST. AND WE KEEP YOUR PRODUCTION MOVING.

CERTIFIED WELDING FOR INDUSTRIAL & PROCESS-CRITICAL SYSTEMS.

Our coded welders deliver high-integrity pipework systems for hygienic and industrial applications. Whether it is a new install, a system upgrade or an urgent repair, we deliver precise results, in-house or on site.

We handle

- /// TIG, MIG & stick welding by certified welders
- /// Carbon steel, stainless steel & exotic alloys
- /// Pipework fabrication for all pressures & specs
- /// Brackets, spools, flanges & structural supports
- /// Site welding, modifications & emergency repairs

Coded welding specialists

Trained in multiple techniques to meet the most demanding specifications.

In-house & mobile

Fabricated at our facility, or welded and repaired on site.

Fast, flexible response

Planned work or last-minute repairs, handled quickly.



FABRICATED PIPE SPOOL ASSEMBLY



FLANGE WELDING



PLANT PIPEWORK & ACCESS STEEL ON SITE

LIGHTWEIGHT. STRONG. BUILT FOR PERFORMANCE.

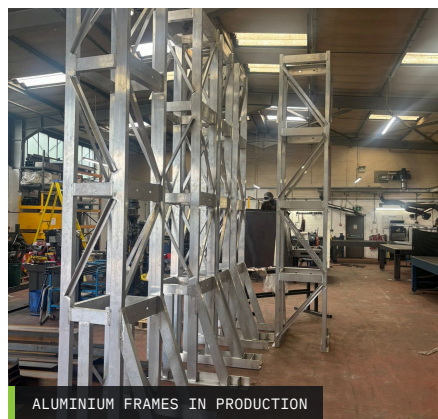
Bespoke aluminium fabrication for commercial, industrial and construction projects across the UK. Corrosion resistant, built to last, and all made in-house to spec.

We fabricate

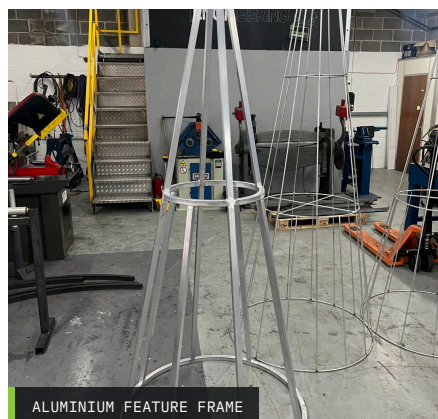
- /// Access platforms & stairs
- /// Frames & housings for machinery, ductwork or plant
- /// Protective guards & panels
- /// Brackets & support structures
- /// External cladding & covers
- /// Custom components, CNC-cut & welded in-house

Why aluminium with us

- ✓ All aluminium welding & cutting handled in-house
- ✓ Designed & fabricated to UK industry standards
- ✓ Lighter builds for easier installation and reduced load



ALUMINIUM FRAMES IN PRODUCTION



ALUMINIUM FEATURE FRAME

BOLD IDEAS, BUILT IN STEEL.

Feature installations, retail and seasonal displays, architectural details and one-off pieces, fabricated in Manchester and installed wherever they are needed.



RETAIL FAÇADE FEATURE
INSTALLATION



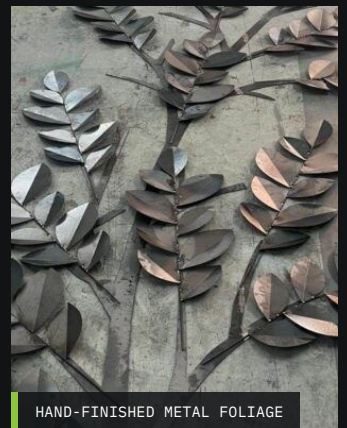
ACCESS-PLATFORM INSTALLATION ON
A CITY STREET



LARGE-SCALE SEASONAL INSTALLATION



RETAIL FRONTAGE INSTALLATION



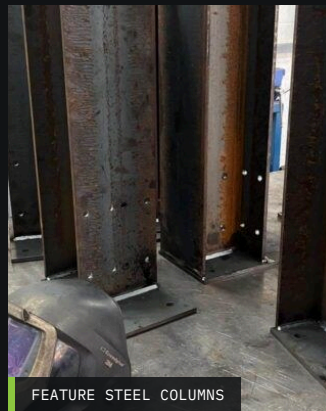
HAND-FINISHED METAL FOLIAGE



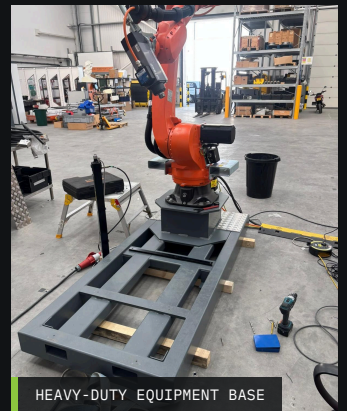
CURVED CANOPY FRAME



BESPOKE BENCH



FEATURE STEEL COLUMNS



HEAVY-DUTY EQUIPMENT BASE

Architectural & detail steelwork

Modern, durable and visually clean. From feature frames and canopies to custom brackets and fixings, made to fit existing kit or layout.

Installed with care

Built in-house and installed by our own team, safely, cleanly and to programme, wherever the project is.

One-offs welcome

Whether it is a single bespoke piece or a batch of production items, we apply the same high standards every time.

A CLEAN, WELL-EQUIPPED WORKSHOP AND SAFE SITE INSTALLATIONS.

Every weld is carried out to strict industry standards, ensuring long-lasting integrity, full compliance and minimal downtime.



FABRICATION FLOOR



BATCH PRODUCTION



LARGE-FORMAT STAINLESS WORK

STRUCTURAL

CE marked to BS EN 1090

Beams, columns and full structural packages, with CE marking on secondary steelwork, mezzanines and frames.

WELDING

Coded & certified welders

Skilled TIG, MIG and stick welders working to demanding specifications in carbon steel, stainless and exotic alloys.

ACCESS

UK Building Regulations

Staircase, balustrade and handrail systems built to meet UK Building Regulations and site safety standards.

FOOD-GRADE

Hygiene & audit ready

Stainless fabrication designed with hygiene, safety and BRC audits in mind.

In-house capability

- ✓ CAD support & fabrication drawings
- ✓ CNC cutting
- ✓ Mandrel tube bending & polishing
- ✓ TIG, MIG & stick welding
- ✓ Mild steel, stainless & aluminium
- ✓ Polished, painted or galvanised finishes
- ✓ Delivery & installation by our own team
- ✓ On-site welding, modifications & repairs



PIPE WELDING IN THE WORKSHOP

SAFELY, CLEANLY, AND WITHOUT COMPROMISE.

Quality that stands up to inspections and holds up under pressure.

COMMERCIAL, INDUSTRIAL, FOOD- GRADE & ARCHITECTURAL.

Commercial & office 01

Structural packages, stair cores and fit-out steelwork.

Industrial & manufacturing 02

Platforms, gantries, plant steel and equipment frames.

Food & beverage 03

Hygienic stainless access, guarding, frames and handling kit.

Pharmaceutical & cleanroom 04

Cleanroom-safe stainless framework and enclosures.

Commercial kitchens & catering 05

Fully welded prep benches, cladding and lining.

Retail & hospitality 06

Fit-out steelwork, feature installations and displays.

Education 07

Structural, access and bespoke steelwork.

Public buildings & infrastructure 08

Durable architectural and detail steelwork.

Plantrooms & utilities 09

Pipework, supports and access in demanding environments.



WHY IRONWORX?



- ✓ Based in Manchester with strong roots across the North West
- ✓ Skilled TIG, MIG and coded welders
- ✓ Clean, well-equipped workshop and safe site installations
- ✓ Practical, no-nonsense communication
- ✓ Fast lead times and sharp attention to detail
- ✓ Trusted by engineers, developers and contractors across sectors

“WE BUILD TO SPEC, NOT ASSUMPTIONS.”

MANCHESTER-BASED. UK-WIDE.

Based in Manchester, local to the whole North West, and trusted by contractors, engineers and developers nationwide.

We fabricate in our own workshop and install on site wherever the project is, working around programmes, shutdowns and live production.

● NORTH WEST HEARTLAND

● UK-WIDE DELIVERY



READY TO WORK WITH A TEAM THAT GETS IT RIGHT FIRST TIME?

Whether you are at planning stage, mid-project or just need a reliable steel partner, send over your spec and we'll talk you through it and give you a plan that works.

CALL **01925 747465**

EMAIL **info@ironworxengineering.co.uk**

WEB **www.ironworxengineering.co.uk**

VISIT **Unit D, Highfield Road, Little Hulton, Manchester M38 9ST**

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SCAN TO VISIT OUR WEBSITE

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