



Stainless Steel Fabrication Engineers

EST. 1988

HALIFAX • WEST YORKSHIRE

CAPABILITY BROCHURE

STAINLESS FABRICATION, PROCESS PIPEWORK & SITE ENGINEERING



DESIGN. FABRICATE. INSTALL.

Family-run engineering specialists supporting food manufacturers, process plants and equipment suppliers across the UK.

6G CODED WELDING • PROCESS PIPEWORK • PIPE SPOOLS • BESPOKE FABRICATION • 3D CAD DESIGN • SKIDS & FRAMES •
TANKS & VESSELS • PLATFORMS & ACCESS STEEL • SITE INSTALLATION

PRACTICAL ENGINEERING FOR PRODUCTION SITES WHERE DOWNTIME, HYGIENE, SAFETY & QUALITY MATTER.

Willand Engineering is a family-run engineering specialist, established in 1988 and based in Halifax, West Yorkshire.

We support food production sites, OEMs and process manufacturers with stainless steel fabrication, process pipework, coded welding, mechanical installation and site engineering works across Yorkshire and the UK.

From stainless tanks, frames, skids, trays and platforms to hygienic pipework, plant upgrades and OEM fabrication packages, we provide practical engineering support when a job needs doing properly, whether there is a full drawing pack or just a problem that needs solving.

From urgent reactive maintenance to planned shutdowns and project work, our team brings extensive hands-on experience to production environments across the country.



OUR SITE TEAMS OPERATE NATIONWIDE



CODED TIG WELDING

1988

Established as a family-run engineering business

40+

Years of combined engineering experience

6G

Coded welders to BS EN ISO 9606

UK

Workshop prefabrication with nationwide site delivery

OUR COMMITMENT TO YOU



QUALITY

Every weld, every joint, every installation: we take pride in getting it right.

SAFETY

Rigorous HSEQ standards protect our team, your site and your people.

INTEGRITY

Honest advice, transparent pricing and reliable delivery.

RELIABILITY

We show up on time and get the job done right, first time.

EXPERTISE

Fully coded welders with years of industrial experience.

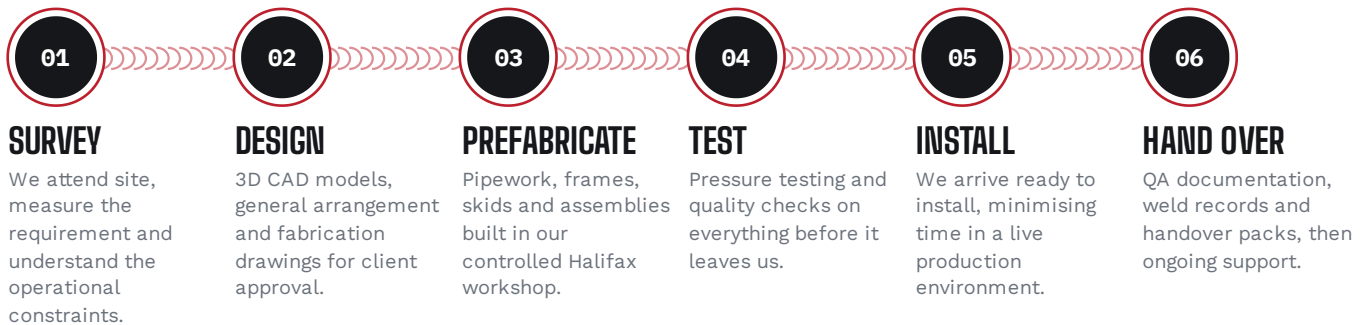
FLEXIBILITY

From small repairs to large-scale installations, we adapt to your changing project needs.

DESIGN. FABRICATE. INSTALL.

One contractor, from a site problem or production requirement to a finished engineered solution.

We are not just a workshop waiting for drawings. The same team responsible for the design is also responsible for fabrication and installation. That removes communication issues between multiple contractors, reduces project delays and ensures complete accountability at every stage.



In-house CAD design

Our designers work closely with our fabrication and installation teams, so every drawing is practical, efficient and buildable. 3D models let clients review proposed equipment before fabrication begins, identifying access, maintenance and installation issues early.

- Process pipework layouts
- Plantroom design
- Mechanical system design
- 2D engineering drawings
- 3D modelling & visualisation
- Fabrication drawings
- Pipe spool drawings & isometrics
- Structural steel detailing
- Equipment integration layouts
- Site surveys & drawing updates
- As-built documentation

By managing the entire process in-house, we deliver

- ✓ Greater project control
- ✓ Improved efficiency
- ✓ Reduced lead times
- ✓ Better quality assurance
- ✓ Clear communication throughout
- ✓ A single point of responsibility



“OUR FOCUS IS SIMPLE: REDUCING RISK ON INDUSTRIAL PROJECTS.”

From fabrication through to installation, we focus on quality, coordination and programme certainty so clients can deliver with confidence.



FROM A SINGLE PIPE SPOOL TO A COMPLETE PROCESS LINE.

We design, fabricate and install carbon and stainless steel pipework systems for industrial, commercial and process environments, with a focus on technical accuracy, compliance with specification and dependable delivery.

Process pipework fabrication

Manufactured in our controlled workshop to tight dimensional tolerances.

- Carbon steel process pipe fabrication
- Stainless steel pipework fabrication
- Pressure-rated and flanged pipe systems
- Prefabricated pipe spools
- Skid units and modular assemblies
- Structural supports and bracketry

Prefabrication & assembly

Reduces on-site work, improves installation accuracy and accelerates programmes.

- Pre-assembled spools and racks
- Flange and connection fit-ups
- Pipework support frames
- Mechanically assembled modules
- Verification before dispatch

Coded welding & weld quality

Performed by experienced coded welders using approved Welding Procedure Specifications.

- TIG, MIG, MMA and structural welding
- Welds carried out to project standards
- Non-destructive weld inspection (where specified)
- Weld documentation and traceability
- Complex geometries, multi-material assemblies and pressure-critical systems

On-site installation

Nationwide teams delivering mechanically sound, compliant installations.

- Site pipework erection and connection
- Alignment and fit-up to tolerances
- Coordination with multi-disciplinary teams
- RAMS-driven safe execution

MATERIALS

- Carbon steel grades for structural and process systems
- Stainless steel for corrosion-resistant and hygienic applications
- Alloy materials for specialised environments
- Stainless crimped pipework systems

Fabricated to drawing and isometric specification, with material traceability and documented quality control throughout.



Excellent work, excellent service. I highly recommend for any fabrication, welding, metal work, pipe work, lagging etc.

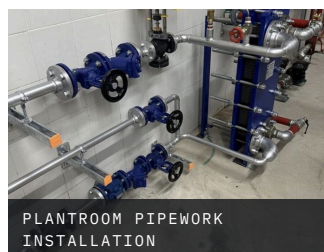
LEE SCOTT ENGINEERING MANAGER,
TIMOTHY TAYLOR'S BREWERY



STAINLESS MANIFOLD
ASSEMBLIES



FLANGED STAINLESS TEE



PLANTROOM PIPEWORK
INSTALLATION

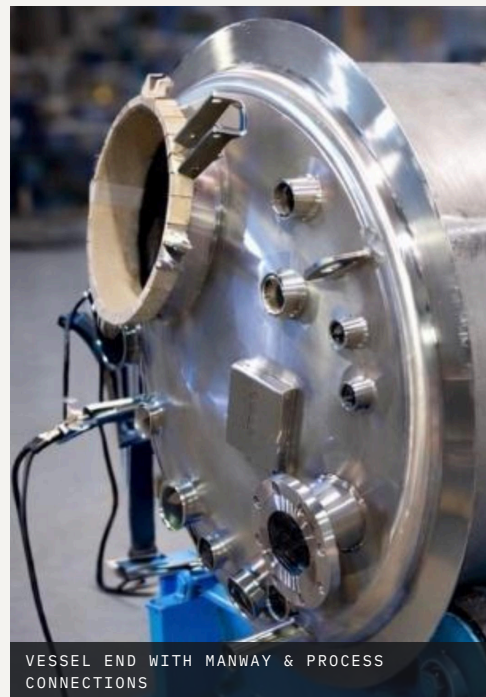


CODED WELDING ON SITE

STAINLESS STEEL TANKS & PRESSURE VESSELS, BUILT IN HALIFAX.

Bespoke 304 and 316 stainless steel tanks, process vessels, storage tanks, receivers and skid-mounted vessel assemblies, manufactured to customer drawings, specifications and process requirements.

Our capability combines 3D CAD design, coded TIG welding, hygienic fabrication, polishing, pressure testing, inspection and QA documentation, supporting projects from initial concept through fabrication, assembly and site installation. Internal surfaces can be finished to project specification for food, beverage, dairy and process applications.



VESSEL END WITH MANWAY & PROCESS CONNECTIONS

What we build

- Stainless steel process tanks
- 304 & 316 stainless steel tanks
- Storage tanks
- Mixing vessels
- CIP tanks
- Buffer & header tanks
- Receivers
- Rectangular & cylindrical tanks
- Hygienic food-grade tanks
- Jacketed tanks & vessels
- OEM tank & vessel assemblies
- Skid-mounted tank systems

Fabrication detail

- Fully purged, hygienic internal TIG welding
- Internal weld dressing & polishing
- External polishing & finishing
- Dished or fabricated ends; sloping or conical bases
- Nozzles, ferrules, bosses & instrument connections
- Manways & inspection hatches
- Baffles, spray balls & vent connections
- Legs, frames & support structures
- Integrated pumps, valves & process pipework

Testing & inspection

- Hydrostatic & leak testing
- Dye penetrant examination
- Visual & dimensional inspection
- Endoscopic weld inspection
- Customer inspection
- Factory acceptance testing packs

Repairs & modifications

Replacement nozzles, additional connections, baffles, manway and base repairs, internal polishing and vessel upgrades. Our confined-space trained engineers can undertake internal vessel work where safe systems of work are in place.

Pressure vessel fabrication

We support the manufacture of unfired pressure vessels and pressure equipment. Each project is assessed against operating conditions, design pressure, temperature, fluid classification and vessel volume. Where required, manufacture can be undertaken in accordance with the applicable requirements of the Pressure Equipment (Safety) Regulations 2016 and recognised design standards, with conformity assessment, design verification or third-party inspection incorporated where applicable.

BS EN 13445

UNFIRED PRESSURE VESSELS

PD 5500

UNFIRED PRESSURE VESSELS

PE(S)R 2016

PRESSURE EQUIPMENT (SAFETY) REGS



DISHED END WITH MANWAY



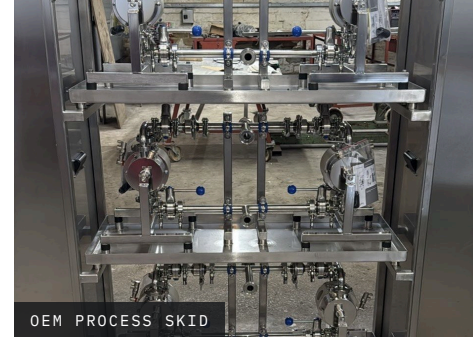
PROCESS STORAGE TANKS



SKID-MOUNTED TANK SYSTEM



NOZZLE & FERRULE INSTALLATION



05 SKIDS, OEM & SHEET METAL

SKIDS, FRAMES & OEM PACKAGES, READY FOR INTEGRATION.

We manufacture complete process assemblies and fabrication packages for OEMs, equipment suppliers and project teams. We work from supplied drawings and CAD models, or developing a fabrication-ready design with you.

Complete process assemblies

- Tanks & vessels
- Pumps, filters & valves
- Instrumentation
- Stainless process pipework & manifolds
- Support frames, brackets & equipment mounting
- Insulation where needed

Particularly suited to OEM tank and skid fabrication, prototype equipment and repeat-build process assemblies.

Access steel & guarding

- Access platforms, stairs & steps
- Handrails & maintenance access structures
- Machine & conveyor guarding
- Pump skids, frames & manifolds
- Equipment & pipework supports
- Conveyor modifications & chutes

Stainless steel & sheet metal fabrication

Precision components and assemblies where dimensional accuracy, structural integrity and compliance are critical, from drawing review through to manufacture and assembly.

CUTTING & PROFILING

Profiled plates, brackets, panels and base plates cut to drawing with repeatable tolerances.

FORMING

Press brake folding for multi-fold components, channels, trays and enclosures; rolled sections where required.

WELDED ASSEMBLIES

MIG and TIG welded frames, supports, enclosures, protective covers and secondary steel.

MATERIALS

Mild steel, stainless steel and aluminium.



STAINLESS FABRICATION



Having worked with Willand over many years, I cannot fault any part of their commitment to quality and prompt address to customer requirements... Willand Engineering are the full package.

SCOTT REID R&G GROUP OF COMPANIES

ON SITE, ON PROGRAMME.

Installation, planned shutdowns and rapid-response maintenance for live production environments, delivered safely and with minimal disruption.



PUMP & PIPEWORK INSTALLATION ON SITE

01

Site installation

Nationwide installation teams who understand live industrial environments, RAMS compliance and the importance of programme deadlines, from new-build installations to modification works.

02

Planned shutdown support

Maintenance, upgrades, pipework modifications and installation projects completed safely and efficiently during scheduled production stoppages. Prefabrication keeps site time to a minimum.

03

Reactive maintenance

Fast diagnosis, engineered repairs and safe execution to restore system integrity:

- Leak containment & sealing
- Weld repairs & reinforcement
- Replacement of damaged pipe sections
- Flange & connection rectification
- Pressure testing after repair

04

Pump installation & maintenance

Supply, fitting and servicing of industrial pumps, including complete duty/standby system upgrades with new valves, gauges and instrumentation.

05

Thermal & process insulation

Controlling heat transfer, maintaining process temperatures, improving energy efficiency and protecting plant from environmental exposure and corrosion under insulation.

- Process pipework, steam & condensate lines
- Hot & cold water systems
- Mechanical plant, vessels, valves & flanges
- Ductwork & fabricated assemblies
- Mineral fibre, rigid board & high-temperature products
- Pre-formed sectional pipe insulation
- Aluminium & stainless steel cladding
- Vapour barriers & weatherproof jacketing



DUTY/STANDBY PUMP UPGRADE



INSULATED & CLAD EXTERNAL PIPEWORK



CONFINED-SPACE WELDING



Their responsiveness to breakdowns and call-outs has also been excellent, helping minimise downtime and keep operations running safely.

LIAM HOGAN ENGINEERING SHIFT MANAGER, MYTON FOOD GROUP

FABRICATION THAT MEETS SPECIFICATION, FIRST TIME.

Quality and safety are fundamental to our operations. All welding is completed by coded welders to approved procedures, ensuring structural integrity and compliance with relevant British and European standards.



OUR CERTIFICATIONS

Standards we work to

Where applicable, we operate in line with:

- ✓ ISO 9001 quality management principles
- ✓ BS EN ISO 9606 welder qualification, including 6G pipe welding positions
- ✓ Approved Welding Procedure Specifications
- ✓ Site-specific health & safety regulations
- ✓ Full RAMS documentation
- ✓ PE(S)R 2016, BS EN 13445 and PD 5500 for pressure equipment, where specified

Equipped for the job

Controlled workshop prefabrication alongside nationwide site services:

- ✓ Coded welding: TIG, MIG, MMA
- ✓ Fully purged stainless steel welding
- ✓ Plate rolling and bending up to 100 mm
- ✓ CNC plasma cutting
- ✓ Press brake forming
- ✓ Pressure testing and inspection
- ✓ Endoscopic / borescope weld inspection
- ✓ Internal & external polishing

QA documentation

Supplied to suit each project specification, which can include:

- ✓ Material certificates & traceability
- ✓ Welder qualifications
- ✓ Welding procedure documentation
- ✓ Weld maps & weld records
- ✓ Inspection & dimensional records
- ✓ Dye penetrant test reports
- ✓ Hydrostatic pressure test certificates
- ✓ Endoscopic inspection records
- ✓ Photographic QA records
- ✓ Final documentation & handover packs



PRECISION STAINLESS WELD



HYGIENIC FITTINGS & FINISH



What stands out to me is Tim's passion for all work undertaken which results in an extremely high quality finished product... From the planning stage to execution, you will not be disappointed.

CHRISTOPHER NICHOLSON MANAGING DIRECTOR, ACCESS INSULATION COATINGS LTD (AIC) & THERMAL ENGINEERING SOLUTIONS (TES)

TRUSTED ACROSS REGULATED & HIGH- PERFORMANCE INDUSTRIES.

With over 40 years of combined engineering experience, we understand the compliance, traceability and operational demands of critical production environments, for new installations and live operational facilities alike.



FOOD & BEVERAGE

- Stainless process pipework
- Hygienic coded welding
- Dairy & beverage grade installations
- Brackets, supports & platforms
- Shutdown & reactive maintenance



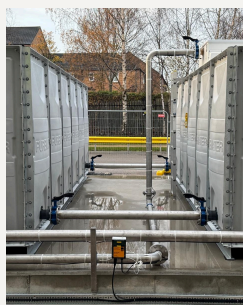
BREWERIES & DISTILLERIES

- Fermentation & transfer lines
- Hygienic welding & fabrication
- Tank connections & modifications
- Insulated pipework for temperature stability



PHARMACEUTICAL & LIFE SCIENCES

- High-purity stainless pipework
- Orbital & coded welding
- Cleanroom-compatible installations
- Controlled shutdown works



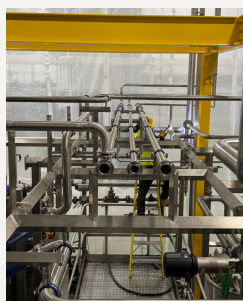
WATER & UTILITIES

- Carbon & stainless pipework
- Pump skid installation & modification
- Ducting & covers
- Planned & reactive maintenance



ENERGY & INFRASTRUCTURE

- High-temperature pipe systems
- Plantroom mechanical installations
- Fabricated steel supports & structures
- Planned outage support



INDUSTRIAL MANUFACTURING & PROCESS

- Process pipework & installation
- Carbon & stainless coded welding
- Structural & sheet metal fabrication
- Mechanical system upgrades



MEDICAL & HEALTHCARE FACILITIES

- Process pipework fabrication
- Mechanical plant connections
- Insulated heating & cooling systems
- Planned & reactive maintenance

ALSO SERVING

- ✓ OEM equipment manufacturers & skid builders
- ✓ Chemical processing
- ✓ Oil & gas
- ✓ Power generation
- ✓ Commercial plantrooms

We work alongside principal contractors, facilities managers and engineering departments.



The breadth of capability they offer has been a huge asset in a food manufacturing environment, where compliance, hygiene standards, and reliability are absolutely critical.

LIAM HOGAN ENGINEERING SHIFT MANAGER, MYTON FOOD GROUP

RECENT PROJECTS.

A selection of recent work, each one surveyed, engineered and delivered by our own team.



MANUFACTURING · MERSEYSIDE

PREFABRICATED STAINLESS PROCESS PIPEWORK INSTALLATION

THE CHALLENGE

The works were planned around a strict four-hour site installation window, so accuracy at survey and fabrication stage was critical.

WHAT WE DELIVERED

- Site survey, measurement & layout planning
- Off-site prefabrication of pipe runs, valve assemblies & flanged connections
- Coded welding & QA support
- Installation within the agreed window

4 hr

SITE INSTALLATION WINDOW

Result. A first-time fit that reduced production disruption, minimised hot works and site labour, and kept most fabrication and quality control in our workshop.



FOOD PROCESSING

BEEF PACKING LINE CONVEYOR EXTENSION & HANDLING MODIFICATIONS

THE CHALLENGE

Extend an existing packing line to increase capacity, with installation restricted to a strict two-day weekend shutdown and no room for redesign.

WHAT WE DELIVERED

- Full site survey and CAD design
- Second site visit to re-check critical dimensions before fabrication
- Conveyor extension, two new discharge points & stainless chutes
- Relocated operator steps, platform and new stainless framework

2 days

WEEKEND SHUTDOWN

Result. Installed within the two-day window: two additional discharge positions, an extended conveyor and an improved handling layout, all without replacing the existing line.



PLANNED OUTAGE

DUTY/STANDBY PUMP SYSTEM UPGRADE

THE CHALLENGE

An ageing pump system with corroded pipework needed a complete strip-out and replacement within a fixed planned outage.

WHAT WE DELIVERED

- Detailed site survey
- Stainless pipework measured & prefabricated in Halifax ahead of the outage
- Removal of old pumps & pipework; new duty/standby system, valves, gauges & instrumentation
- Full purge welding by our coded welders

10-30%

POTENTIAL ENERGY SAVING*

Result. Handed back on time and ready for immediate operation, with improved reliability and standby resilience.

* Approximately 10 to 30% lower energy consumption than the previous installation, depending on operating demand and system control.



LIVE MANUFACTURING FACILITY

STAINLESS STEEL VAPOUR EXTRACTION SYSTEM FOR THREE PROCESS TANKS

THE CHALLENGE

A new vapour collection and vent system was needed on a fully operational site, on a tight programme, while the specified extraction fan had a 12-week lead time.

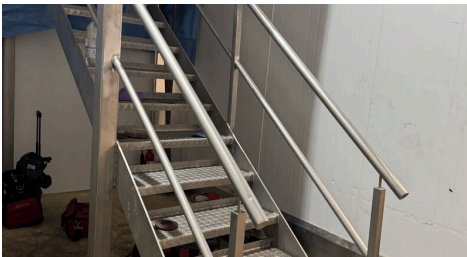
WHAT WE DELIVERED

- Survey, measurement and system design
- Vapour take-offs from three tanks into a common manifold
- Hybrid of TIG-welded and crimped stainless pipework to reduce hot works
- Temporary extraction fan to keep the site operating safely

12 wk

FAN LEAD TIME OVERCOME

Result. System installed and operational with site operations maintained throughout, and the long-lead procurement risk mitigated.



CHEESE PROCESSING • WALES

ACCESS PLATFORM & CONVEYOR REMOVAL AND REINSTATEMENT

THE CHALLENGE

An access platform, conveyor section and stairway had to come out cleanly and go back precisely onto fixed floor stubs, so new refrigeration coil cassettes could be installed.

WHAT WE DELIVERED

- Careful measurement & controlled positioning
- On-site modifications where required
- Coded welding to food-manufacturing standards
- Conveyor set level to prevent belt-tracking issues

Zero

VISIBLE SIGNS OF REMOVAL

Result. Completed safely and on time. All affected stainless surfaces were dressed and polished, meeting the facility's strict hygiene and aesthetic requirements.



OEM & PROCESS EQUIPMENT

STAINLESS STEEL PROCESS SKID UNITS

THE CHALLENGE

A client required two identical process skid units fabricated to their specification, complete with full system design and CAD drawings before fabrication began.

WHAT WE DELIVERED

- System design & CAD drawings developed in-house from the client's scope
- Stainless skids with flanged pipework, butterfly valves, filter housings & instrumentation ports
- Wheeled stainless steel frames for easy positioning on site
- Every weld, fitting and connection checked before dispatch

2

IDENTICAL SKIDS, DESIGN TO DELIVERY

Result. Both units delivered to specification, on time and ready to go straight into service, without the need for multiple contractors or suppliers.

ALSO DELIVERED

Steam pressure reducing station: 9 barg boiler steam to 3 barg process steam

Conveyor transfer modification at a food manufacturing site

OEM process skid package with coded TIG welding with endoscopic weld checks

BASED IN HALIFAX. WORKING UK-WIDE.

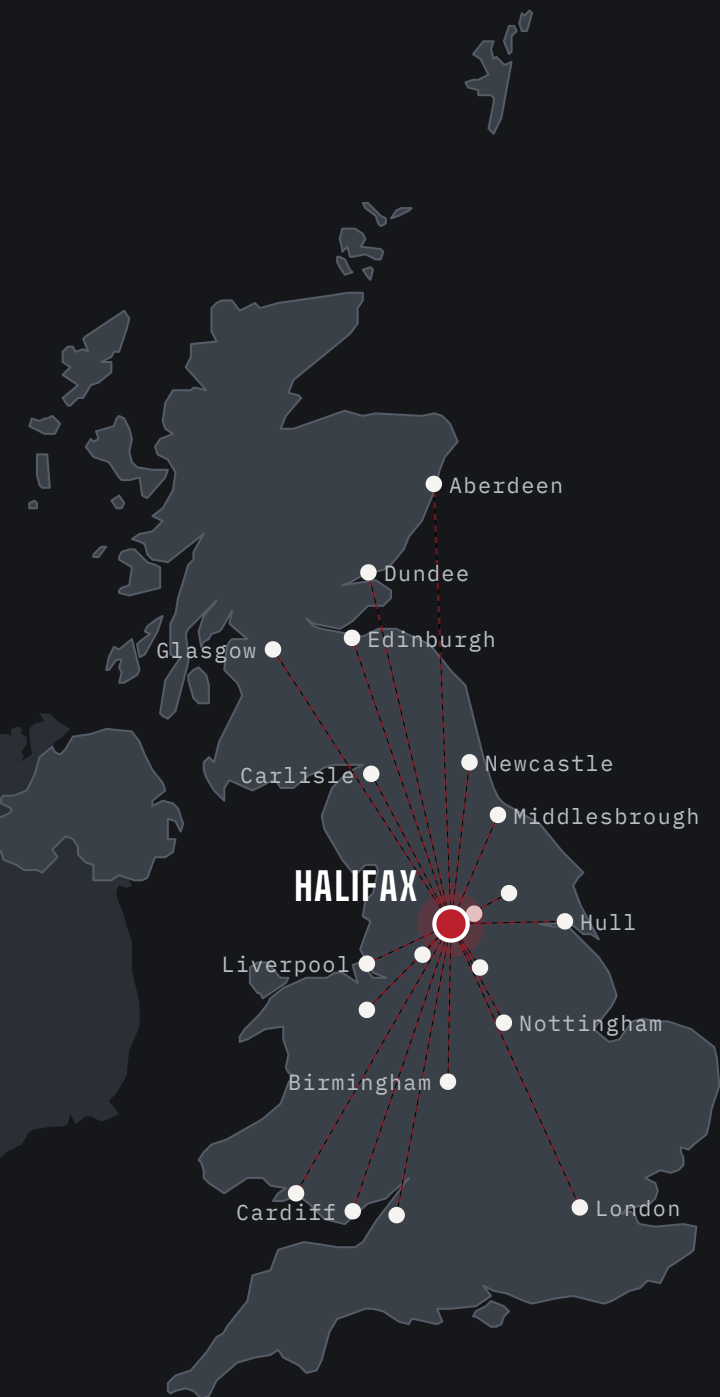
From our West Yorkshire workshop we support food and beverage manufacturers, pharmaceutical facilities, water and utilities companies, OEM equipment manufacturers and industrial process sites, from Scotland to London, and everywhere in between.

YORKSHIRE · NORTH WEST · NORTH EAST · MIDLANDS · SCOTLAND ·
WALES · LONDON & THE SOUTH

Our prefabrication model means the majority of work is completed in Halifax, so we can install efficiently within tight shutdown windows, wherever you are.

WHY CHOOSE WILLAND ENGINEERING

- ✓ Experienced process pipework fabrication specialists
- ✓ Qualified and coded welding professionals
- ✓ Stainless steel and carbon steel fabrication expertise
- ✓ Complete design, fabrication and installation service
- ✓ Planned and reactive industrial maintenance support
- ✓ UK-wide project delivery
- ✓ High standards of health, safety and quality control



READY TO START YOUR PROJECT?

Send us your drawings, specifications or site details and our team will prepare a structured, specification-based proposal.

CALL **01422 369000**

EMAIL **sales@willandengineeringcompany.co.uk**

WEB **processpipeworkfabrication.co.uk**

VISIT **Unit A, Craven Edge Enterprise Park, Halifax, West Yorkshire HX1 5ED**

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SCAN TO VISIT OUR WEBSITE

WILLAND
Stainless Steel Fabrication Engineers