



MACHINING • HEAVY FABRICATION • PRESSURE VESSEL MANUFACTURE • MECHANICAL ENGINEERING





about us

GWF Engineering Limited - Specialists in Fabrication & Machining

Founded in 1965, GWF Engineering Ltd has been providing services to industry for over 50 years, Offering excellence in machining and fabrication solutions to hundreds of satisfied customers from a broad spectrum of industries.

In addition to servicing the more traditional heavy engineering sectors such as Steel, Mining, Power Generation and Petrochemical, we also work innovatively in the Aerospace, Formula 1 Racing and Renewable Energy industries.

The manufacturing facility is based in Scunthorpe, North Lincolnshire and is close to the UK Motorway network and the Humber ports for ease of transport of large or abnormal loads. The workshop facilities total some 35,000 sq.ft. with overhead craneage of 40T single lift and machining capabilities of up to 5.6m diameter.

We maintain a regular workforce of highly trained, skilled craftsmen and have a proactive succession policy involving the recruitment and training of apprentices in all our core disciplines. This provides us with the stability of skills and retention of knowledge required to maintain the high standards to which we work.

GWF have 3 main bays for fabrication totalling some 18,000 sq.ft. serviced by overhead cranes of up to 40T single lift. The 3 machine shops offer Large Machining 2m – 5.6m Diameter, Small Machining < 1.8m, and a CNC Shop housing CNC Lathes and Machining Centres.



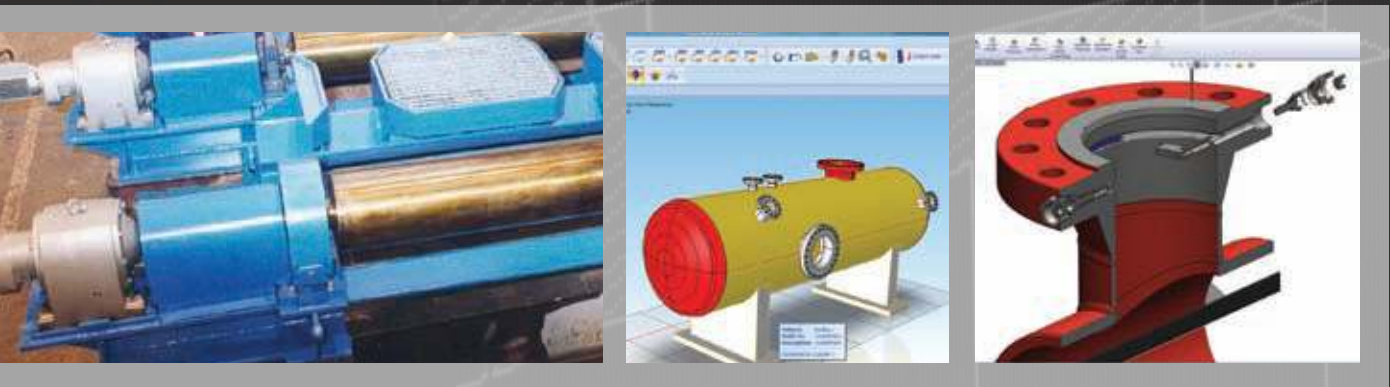
In addition to offering general sub contract machining and fabrication services to customer supplied drawings, we also offer design and build.

We employ coded welders and work to EN15614, EN287 and ASME IX Standards as applicable. We carry NDT Technicians/Inspectors to PCN Level II in house and can offer Radiography and Ultrasonic Inspection through an UCAS NDE Inspection Company at our works.

We have in house rolling, pressing and CNC Profiling which enables us to minimize subcontracting work and maximize control from both a quality and delivery aspect.

The company is committed to providing goods and services of the highest quality and operate a Quality Assurance Management System to BS EN ISO 9001:2008 which is independently audited by Lloyds Register of Quality Assurance. We have operated an Independently Approved QAMS since 1998.



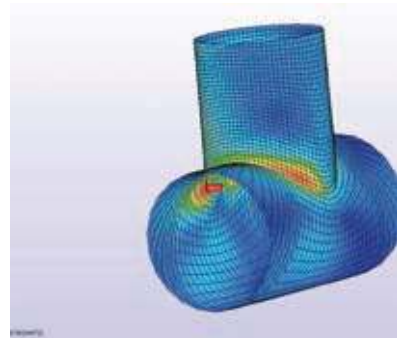


Design capability

GWF offer design services covering both general mechanical design and also pressure vessel design to PD5500, BS EN13445 & ASME Standards. We utilise Solidworks 3D and Codex for Design/drafting and can also offer FEA when required.

Pressure Vessels come with full CE Certification to comply with the Pressure Equipment Directive (PED 97/23/EC). GWF generally employ the services of either Lloyds Register or British Engineering Services (Formerly Royal & Sun Alliance) to carry out the Notified Body role in pressure vessel design and manufacture but are happy to work with any Client preferences which have included Bureau Veritas, TUV and Parsons Brinckerhoff in the past. We also manufacture Offshore Security Stores which come with full Det Norske Veritas (DNV) certification.

We are equally happy to work to client designs/ drawings and do so on a regular basis with many OEMs, reverse engineering as and when required to produce obsolete parts for older plant and equipment.





design and innovation

Innovation

GWF regularly offer our expertise and experience to advise clients where we think we can add value to goods and reduce costs by utilising different manufacturing techniques and/or materials.

We carry several graduate engineers and a metallurgist on our staff in addition to a wealth of practical experience gained over our 50 years in business. Whilst the company is predominantly workshop based, we regularly carry out site visits/surveys where we look to engineer out re-occurring problems by improving existing designs. GWF Operate a continuous improvement policy.





facilities - machining

The Large Machine Shop is some 750 sq.m (8000sq.ft) serviced by a 35T electric overhead travelling crane (EOTC).

There are 4 large Vertical Boring Machines 1 No 18' VB, 1 No 10' VB and 2 No 12' VBs offering vertical boring services up to 5.5m Diameter. In addition this shop has a Butler Elgamill, Richards 60" Large Horizontal Borer and a Radial Arm Drill

The Small Machine shop is approximately 470 sq.m (5000 sq.ft) and has a 5T EOTC. This shop houses a range of small Webster Bennet vertical borers from 3' – 6' along with a 42" TOS Horizontal borer, Radial Arm Drill and a range of conventional lathes.

The new CNC & Fitting shop is ~470sq.m (5000sq. ft) is home to 2 No CNC Vertical Machining Centres, 2 No CNC Lathes, a conventional milling machine and an electric oven for thermal stress relief and/or PWHT.

All our metrology equipment is regularly calibrated in accordance with our QMS and traceable to UKAS Standards.

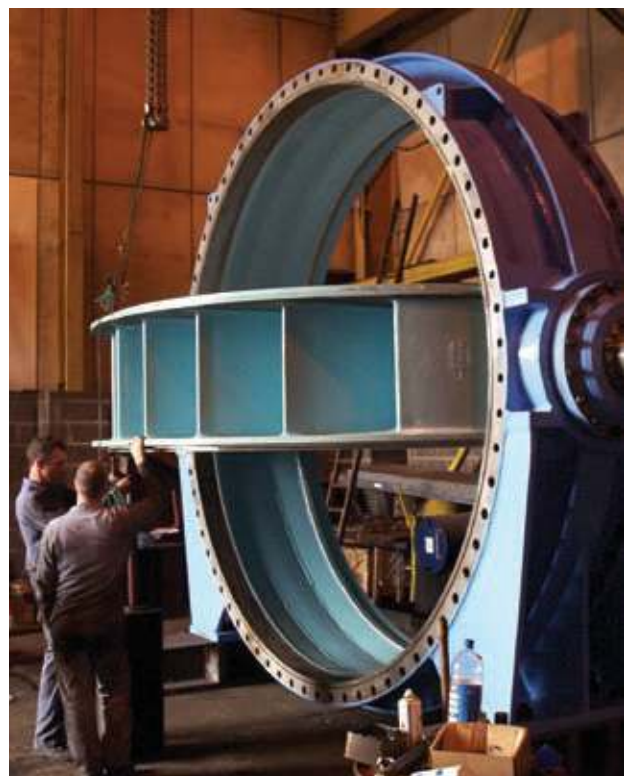
Our machine operators are a highly skilled team many of whom served their apprenticeship with GWF. With many years of expertise in the machining of heavy engineering components, castings, high chrome irons and exotic materials we pride ourselves on providing an accurate and reliable service to our customers.





The Large fabrication workshop is approximately 800sq.m (8600sq.ft) and is serviced by a 40 Tonne EOTC with 5T auxiliary hoist, and a separate 15 Tonne EOTC. In addition to providing TIG/MIG/MAG & MMA Welding, we also offer Submerged Arc Welding.

The large fabrication shop houses a 6m Column & Boom complete with Lincoln Welding Head and Controller, along with numerous welding positioners and rotators. Pressure vessels and autoclaves up to 6m Diameter and 120 Tonnes have been manufactured in recent years. We offer rolling in house with a set of Steco 12' x 1" (3650mm x 25mm) plate bending rolls, and have several approved suppliers for rolling/forming thicker plates up to 100mm thick.



facilities - fabrication

A further fabrication workshop of 600 sq M with 2 No 10T cranes which includes:

3.5M x 6.5M bed CNC profiling machine

500T 12' (3650mm) Press brake

15mm x 3100mm guillotine

Welding Equipment includes:

SMAW (MMA) GSAW (MIG), GTAW (TIG)

SAW (Submerged Arc Welding) Column & Boom

All our welding equipment is regularly calibrated and we carry an extensive range of welding procedures covering the majority of thicknesses, diameters and grades of steel both with and without PWHT

Examples of services we offer are as follows:

- Pressure Vessels & Pressure testing to PD5500, EN13445 & ASME VIII
- Valves – Butterfly, Spherical and Slab Valves
- Heavy Fabricated Plate Girders
- Kiln Sections
- Ball Mills
- Tanks
- General Fabrications
- Machined Fabrications
- Large Ducting
- Heat Exchangers
- Steelwork Gantries & Platforms
- Large Gear Boxes
- Bedplates and bearing pedestal supports
- Running Gear including Main Tyres, Support/thrust rolls and Girth Gears





contact us





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