



# Steel Fabrication and Installation



**Mild Steel Fabrication - Stainless Steel Fabrication**  
**Filtration - Wash Water Booster Sets**  
**Settlement Tank Scraper Bridges**

[www.gse.ltd](http://www.gse.ltd)





## STRENGTH THROUGH DESIGN

Our clients benefit from our expertise in steel fabrication and installation. As a trusted extension of your team, we apply focused design knowledge and relentless determination to turn complex projects into progressive solutions.

### Our Expertise:

#### Pipework

Design, fabrication and installation of steel pipework solutions for diverse industrial applications.

#### Tanks

Steel tanks for liquids or solids. Flow controls, level measurement and mixers available.

#### Walkways, Stairs, Access Ladders

All designed to the latest regulations. Steel or GRP walkway flooring options.

#### Settlement Tank Scraper Bridges

Designed to suit primary, storm, humus and final settlement tanks.

#### Bespoke Waste Water Steelwork

Bar screens, discharge chutes, troughs, augers, grinder installations, skip trolleys, etc.

#### Structural Steel

Design and fabrication of structural steel to CE Mark EN1090

#### Architectural Balustrades & Handrails

Produced to the client's individual specification.

#### Custom Made Machinery & Systems

Wash Water Booster Sets, Ultrasieve rotary drum screen, automated machines for industry.

#### Filtration

Design and fabrication of filters for the food, beverage, oil, powder, gas and water industries. Re-mesh of existing filters.

### Mild Steel Fabrication

GSE is renowned for its quality mild steel fabrications. This is due to our commitment to maintaining the highest standards and using the latest equipment and design technology.

Certified to EN1090 EXC 3 we can offer a wide range of structural fabrications for industrial applications.





## Water Jet Cutting

The GSE prides itself on keeping up to date with the latest fabrication techniques.

We have recently invested in an state of the art Flow water jet cutter.

This machine can cut any material on earth, up to 200mm thick.

Water jet cutting uses water pressure of 65,000psi along with fine garnet to cut through the desired material.

The process does not burn or heat the material. Therefore the product is left clean, with no heat effected zones.



## Stainless Steel Fabrication

GSE work closely with every customer to deliver a reliable design, fabrication and installation service.

An unlimited product offering includes pipework systems, storage and mixing tanks, architectural balustrades and handrails made to individual requirements, bar screens, troughs and weir plates.

Our state of the art design and drawing service means we can create bespoke items produced by our highly qualified fabrication team.



## Filtration

GSE offers in-house filtration solutions using zero defect stainless steel meshes specifically designed for demanding applications such as the oil, powder, gas, water and dairy industries. We also re-mesh existing filters to exacting customer specifications.

Our drum screens and run down screens use wedge wire technology and provide a cost effective way to remove suspended solids in meat processing, offal processing, plant effluent and sludge screening.

Our in-house product, Ultrasieve, is an internally fed rotating wedgewire drum screen that separates suspended solids and fibres at high flow rates. It is energy efficient and low maintenance, providing a cost effective method for reducing BOD and minimising treatment and effluent charges. The by-product material can provide a re-sale opportunity for the user.



## Scraper Bridges

With vast experience in water treatment engineering, we specialise in the design, fabrication and installation of half, three quarter and full bridge scrapers.

Using the latest 3D CAD technology, we design to the latest WIMES standards for use in Primary (PST), Final (FST) and Storm Tank processes.

We produce scraper bridges up to 50 metres long and are proud to have installed some of the largest in the UK & Ireland.



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Graham Steelworks & Engineering is a steel fabrication company located in Newtownabbey, Northern Ireland. We have expanded and diversified by responding to customer needs and adopting cutting edge design software and fabrication techniques. Customers tell us they appreciate our deep knowledge of the industry as well as our enthusiastic and fresh approach to complex engineering problems.



## CE Marking

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GSE products come with the assurance of a CE Mark.

All items manufactured in the European Union must have CE certification and since July 2014, this has also become mandatory for structural steel fabrications. GSE were able to attain CE accreditation very quickly as they had the requisite Factory Production Control (FPC) System in place. Following assessment by the certification body approved by the European Union, GSE were awarded CE certification Execution Class 3.

This verifies that the fabrications which GSE manufacture comply with the detailed requirements of BS EN1090-1 and BS EN 1090-2, meaning customers can be assured that they have been produced to the highest standards.



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