



Deansgate, Manchester

STRUCTURAL STEEL SOLUTIONS

Plate Girders

Innovation is key at Shafton Steel Services, we constantly review modern manufacturing methods, introducing the most effective and modern methods within our services. Shafton have introduced a plate girder service to their processes, providing bespoke section properties, designed to meet specific project requirements and are ideal for spanning long distances and/or carrying heavy loads.

Why our Plate Girders make sense for your project

Plate girders are fabricated from individual plates, so the Designer has ultimate flexibility in terms of flange and web dimensions and can therefore maximise material efficiency for any given requirement.

With our own in-house plate girder manufacturing lines, we have direct control over the production of plate girders, allowing us to avoid risks involved in sourcing alternative proprietary beam solutions which are often subject to long lead times.

Bespoke web hole arrangements

Our custom-made plate girders also afford us the opportunity to cut web holes to varying sizes and spacings along an individual beam to suit specific services or aesthetic requirements. The need for costly 'infills' associated with some other manufacturing methods is completely avoided.

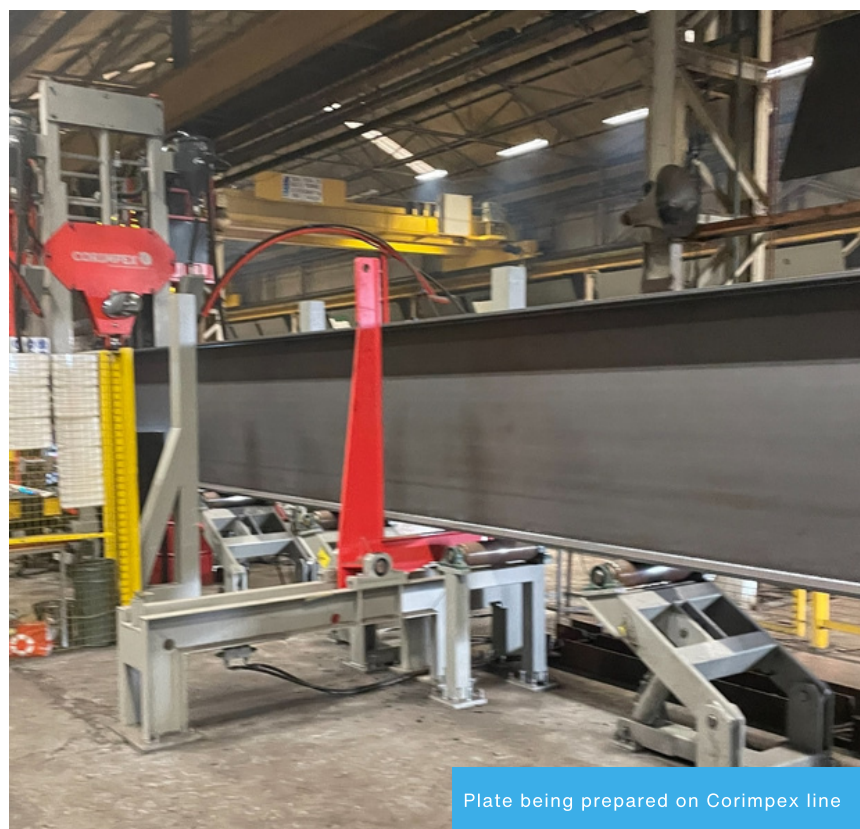


Plate being prepared on Corimpex line



Deansgate, Manchester

PLATE GIRDERS

Economy of Design

The simplicity of production processes associated with generic plate girders means they are often more economic than the equivalent proprietary alternative. This coupled with short lead-in times and guarantee of availability makes the generic plate girder an attractive option.

Fire Protection

The proportions of plate girders can easily be tailored to help you reduce the thickness of intumescent paint you may require. The reduction in thickness, associated cost and curing time when compared to equivalent proprietary solutions can be significant. As well as plate girder manufacturing, In addition to plate girders, we provide a shot blast girder solution, supporting any type of paint finish.

Plate is loaded on to a magnetic bed

A high penetration continuous line of weld is applied automatically to the web/flange interface

Ready for QA inspection and testing as necessary

Plate girders, complete with web holes, erected on site



Full plate supply and cutting

Free issue material Cutting

Full plate supply cutting including Carcass welding

Free Issue Carcass welding

SERVICE LIST

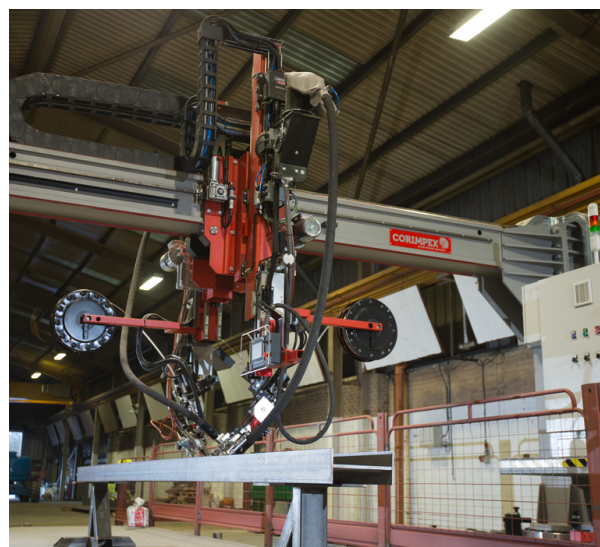
Corimpex T&I Beam Welding Line

Web Depth	300mm to 1500mm*
Web Thickness	5mm to 30mm*
Flange Width	100mm to 800mm*
Flange Thickness	6mm to 50mm*
Plate Girder Length	3800mm to 18300mm*
	<i>Minimum to Maximum*</i>



Corimpex Column & Boom Welding line

Web Depth	300mm to 2200mm*
Web Thickness	25mm to 100mm*
Flange Width	100mm to 1000mm*
Flange Thickness	6mm to 100mm*
Plate Girder Length	3000mm to 22000mm*
	<i>Minimum to Maximum*</i>



Shafton Steel Services offers a reliable and accurate free issue cutting service. No minimum charge and single cuts are welcome too.

See below for our main cutting services.

Full plate supply
and cutting

Free issue material Cutting

Full plate supply cutting
including Carcass welding

Free Issue
Carcass welding

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SERVICE LIST

Cutting Services

Plasma under water cutting

Plate width – up to 3000mm*

Plate length - up to 19500mm*

Plate thickness – 3mm to 30mm*

*Minimum to Maximum**

OXY Gas cutting

Plate width – up to 3200mm*

Plate length - up to 32000mm*

Plate thickness – 15mm to 200mm*

*Minimum to Maximum**

Multi Head cutting for plate stripping with minimal distortion.

Crane Lifting capacity

1 X 10 tonne crane

2 x 16 tonne crane

Our new state of the art Magnetic lifting beam will lift 6t in one lift.

S.W.L @ 6T Based around a max of 18000mm long plate by 2000mm wide. (not exceeding 6 tonne)

Key advantages

Excellent precision and repeatability.

Underwater cutting which results in smaller heat-affected zones as well as minimising noise levels.

More complex shapes can be cut with high levels of accuracy.

Minimal dross as the process itself gets rid of excess material, meaning very little finishing is required.

We are also able to manufacture plate girders with dimensional requirements outside of these ranges.

Please contact us with details of your specific requirements.



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