

Barnshaws' Manchester Branch steps up with Stockport Grammar School staircase

Fineline Balustrades Ltd prides itself on providing modern, distinctive staircases to its customers. Staircases can include a wide range of differing materials to create a modern aesthetic, but when it comes to utilising curved steel, the business always relies on the expertise of Barnshaws Section Benders' Manchester Branch. So, when it came to deliver a unique staircase incorporating curved steel profiles for Stockport Grammar School, there was no need to change a winning formula.

The design of this staircase was particularly complex. Winding, with freeform steel shapes forming the bannister, specialist metal bending was required to accurately curve the 12 mm thick, laser-cut steel profiles to the required radii. Barnshaws' Manchester Branch offers this capability, with the business a regular provider of precision curved structural and aesthetic metal fabrications.

Barnshaws' Manchester Branch was required to bend steel profiles, that together reached approximately 24 metres in length. Utilising a specialist technique which ensures that steel profiles do not deform during the bending process, Barnshaws' engineers were able to deliver the unique profiles to the exact requirements of the organic design. Despite the inherent challenges of the project, all of the curved profiles were delivered to Fineline Balustrades on time and on budget. All steelwork and design was completed by 10 Architect.

Wayne Salkeld, Regional Director at Barnshaws' Manchester Branch, commented: *"We're well-known for delivering large structural elements, but we are equally adept at delivering smaller scale, intricate fabrications for interiors or facades. With our in-house techniques and state-of-the-art machines, we can take on metal bending work for projects of almost any size, large or small. Our profile bending service is just another example of that capability, and one that has helped forge positive business relationships with specialists such as Fineline Balustrades."*

Photo Captions

Photo 1: Stockport Grammar School's unique staircase incorporating curved steel profiles from Barnshaws Section Benders.

Photo 2: Barnshaws' engineers were able to deliver the unique profiles to the exact requirements of the organic design.

About Barnshaws

Established in 1969, Barnshaws has grown to become the world's premier specialist profile bending company; supplying market sectors such as construction, power generation, mining, transport and general manufacturing with shaped beams, tubes, plate and other profile section materials. More recent developments have seen the company's engineering expertise expand from mostly steel to non-ferrous materials including copper and aluminium as well as specialist materials such as Hardox.

Barnshaws has ISO 9001:2015 approval and was Europe's first bending company to achieve CE Marking of curved sections to Execution class 4, the highest standard available.

With facilities in the West Midlands, Manchester, Hamilton and Poland, Barnshaws can provide precision metal bending and profile cutting services, locally, nationally and internationally.

Equipped with the largest capacity bending machines in the world, Barnshaws can deliver curved sections up to 35 meters in length with the capacity to bend tubes and pipes up to 1,524mm outside diameter. In addition, the largest range of press brakes in the UK can accommodate materials up to 12 metres in length and form sections from materials up to 80mm in thickness, this together with a vast range of rolling machines enables Barnshaws to offer rolled cylinders from 350 to 4200mm diameter with wall thicknesses upto 100 mm, all of which can be supplied in the welded condition singly or in multiple belt lengths.

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