

SECTION BENDING

INDUCTION BENDING

ALUMINIUM BENDING

PRESS BRAKING

PLATE ROLLING

LASER / PLASMA CUTTING

Section and Tube Bending



All sections curved

- Worlds largest capacity range
- Sections up to 35m long
- One off or many



CHS, Tubes and Pipes up to 60" (1524mm O/D)

- RHS up to 500 x 300 x 20mm - (Rectangle)
- SHS up to 500 x 500 x 20mm - (Square)





Barnshaw Section Benders Ltd is accredited to ISO 9001-2000 by BSI

- The most advanced bending systems available
- Items can be kept in stock for call off
- In house NDT quality inspection
- Extra processing services can be carried out on many section sizes



All Materials Curved

- Mild Steel S275, S355 and higher yields
- Stainless Steel and Duplex Steels
- Copper, Brass and Titanium
- High Yield and high Temperature Steels
- Aluminium

Capacity Chart
Visit www.barnshaws.com



Plate Rolling



Maximum Width - 4600mm
Maximum Thickness - 80mm

Largest and most advanced range of plate rolling machines in the UK

- Pre ending up to 45mm x 3500mm material without forming allowance, thus reducing material costs
- Hardened chrome rolls to minimise marking and contamination on stainless and aluminium plate



Submerged Arc Welding

- Column and Boom manipulators allow us to produce 4000 to 350mm diameters
- Small diameters down to 350mm can be Submerged Arc Welded from the inside utilising an adapted head
- Circumferential seams can be produced, offering multiple belts up to 12 metres long
- All procedures and welders qualifications to EN / ASME codes
- NDT & PWHT services available
- MMA - MIG & TIG processes also available





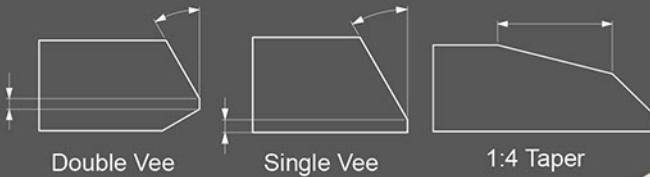
All grades of material processed

- All material fully traceable
- 24 Hour turnaround for rolled and tack welded cylinders from Free Issue material



Capacity Chart
Visit www.barnshaws.com

Edge Prepping



Double Vee

Single Vee

1:4 Taper

Weld preparations can be produced utilising the following methods:-

Flame / Plasma Beveling

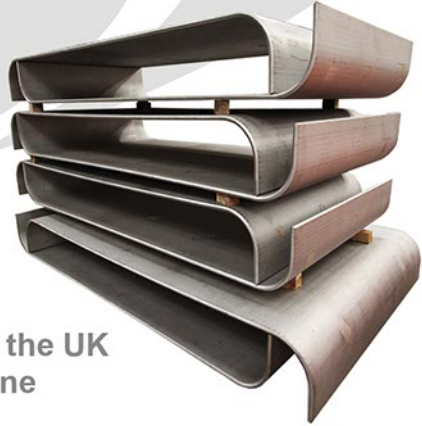
This can be adapted to produce Tapers such as 1:4 to inside or outside surfaces

Mechanical

Punch Nibbling / Rotary Shear



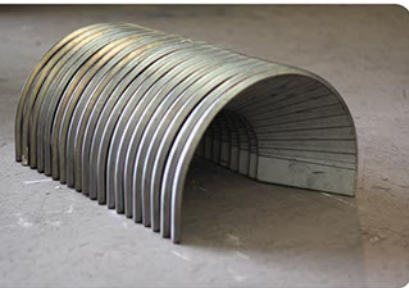
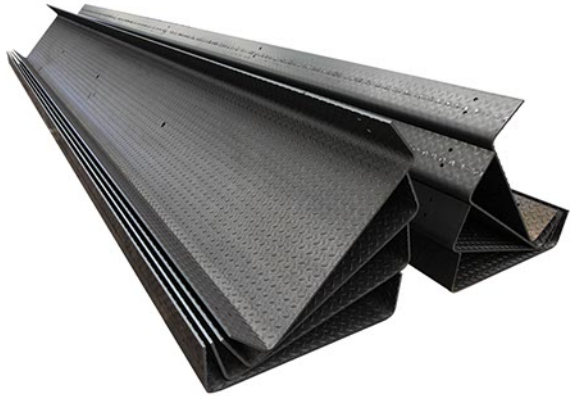
Press Braking



Largest range of press brakes in the UK
Up to 12,000 mm long x 1000 tonne

Typical Applications

- Angles / Channels
- Boat Sides
- Chassis Rails
- Cones / Reducers
- Corrugations
- Cylindrical Segments
- U type Sections
- Excavator Buckets
- Stair Treads & Landings



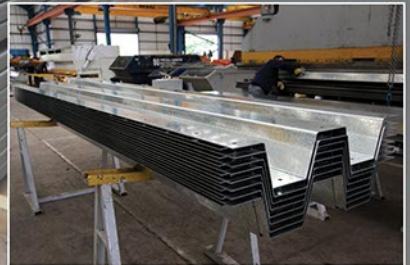
Cones and Transitions

- All sizes rolled and pressed
- Square to round transitions

Full development, cutting and forming service

We offer a full development service of standard shapes such as cones, lobster backs and square-to-rounds. Material can be laser, plasma, sheared or flame cut to size.

For more information see our Laser and Plasma Cutting section.



Thicknesses up to 80 mm thick

Thickness (mm)	Max Length (mm)
≤13	12000
15	10000
20	6500
25	5000
30	3000
40	2800
50	2300
60	1900
70	1400
80	1000



Induction Bending

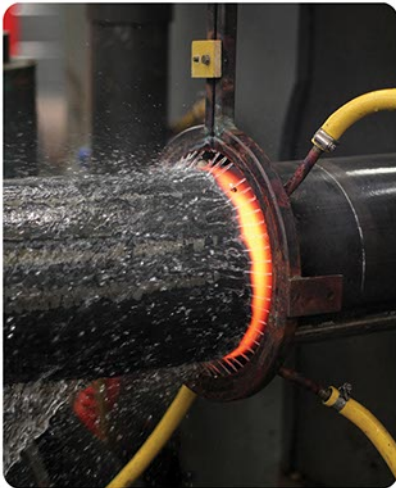


Hot bending process with reduced cross sectional deformity

The combination of speed, heat and cooling allows sections to be bent to tighter radii without cross sectional deformity.

Up to 711mm (28") pipe capacity x 30mm thick

- 610 Beam Bending
- 500 x 300 RHS



Post manufacturing processes

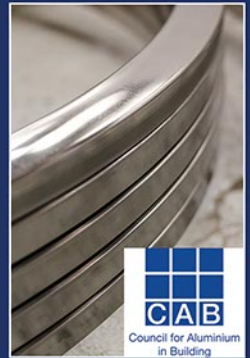
- Weld Preparation
- Hydrostatic Pressure Testing
- Heat Treatment and Cleaning
- Coating and Surface Treatment
- In-house and 3rd Party Inspection
- Mechanical and Non-Destructive Testing

Aluminium Extrusion Bending



Carbon free bending area

Barnshaws utilise the most advanced aluminium extrusion bending equipment available, in a dedicated carbon free area

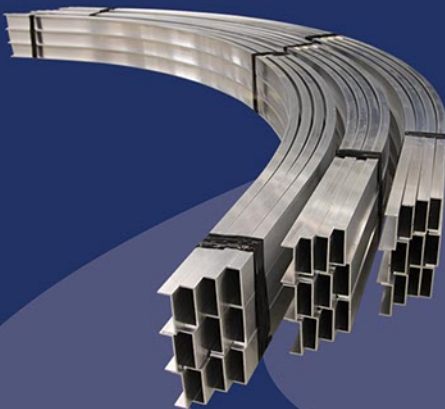


UK's largest capacity range

Most sizes are curved and all lengths handled. With economic in-house tooling production specialist tooling can be designed for each new project.

Scratch free curved extrusions

- Painted sections curved without marking
- Sections curved distortion free



Laser and Plasma Cutting



Laser Cutting

Maximum size 12m x 4m up to 15mm thick



2 x Plasma (Twin Heads)

Maximum size 18m x 5.5m up to 30mm thick

6 Head Flame Cutting

Maximum Size 18m x 5m up to 200mm thick

Shearing

8 metres x 10mm
6 metres x 16mm



At Barnshaw Profiles we use the very latest Lantek Cad/Cam programming software, ensuring maximum material utilization. In addition we use Solidworks and AutoCAD packages, enabling us to produce any shape, and import multiple file types, including dxf, dwg, dstv and iges.



Porthole Beams

- Any size or shape hole can be cut
- All length beams
- Multiple hole cutting for economy



Spiralling

From polished handrail for spiral staircases to multiple coils for heat exchangers.



We can even spiral box section!



Stainless steel specialist

If requested, Barnshaws will guarantee your spirals will be free from contamination on our site, providing it is protected upon arrival. Specialist tooling and handling equipment are used.

Tee Splitting



Trimmed
Flange Tees

Long Tees
Stalk

Short Tees
Stalk

All sizes split and straightened

With specialist splitting and straightening machines, Barnshaws have the most efficient high speed splitting capacity available in the UK.

The ability to handle all lengths of Tees in any size or quantity

Tees can be split from Universal Beams, Columns or Joists.

The flanges can be trimmed to produce non standard bars. Beams can also be supplied with radiused edges for specialist offshore applications.



Area	West Midlands					Manchester	Scotland
Branch	Tividale	Structural Division	Plate Bending Division	Plate Processing	Aluminium Bending Division	Multi Service Centre	Multi Service Centre
Tel	0121 557 8261	01902 880848	01902 880250	01902 663553	0121 521 4297	0161 320 9696	01698 421010
Fax	0121 557 5323	01902 880125	01902 880505	01902 887379	0121 521 4293	0161 335 0918	01698 421177
Email	sections	structural	platebending@barnshaws.com	profiling	aluminium	manchester@barnshaws.com	hamilton@barnshaws.com
Section Bending under 203							
Section Bending over 203							
Plate Rolling							
Press Braking							
Pressed Cones							
Tube Bending							
Aluminium Extrusion Bending							
Laser Cutting							
Plasma & Profile Cutting							
Tube Spiralling							
Tee Splitting							

Midlands

Section Bending

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Tipton Road, Tividale, Oldbury,
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Structural Division

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Laser, Plasma & Flame Cutting

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Manchester

All Services

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For general enquiries please email:

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