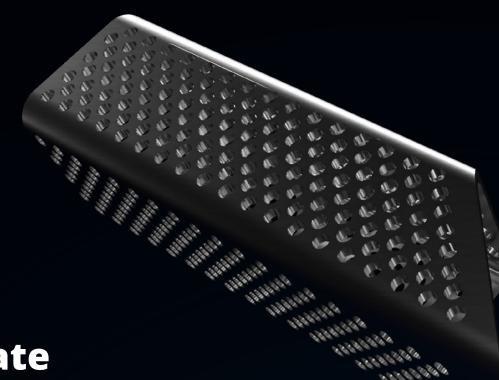


Your Vision, Executed with **Speed and Precision**

Whether it's a simple cut-to-length job or a one-of-a-kind design, ParkerSteel's range of tube laser machines provide a superior solution. With full CAD/CAM integration and precision technology, tube laser cutting is fast, accurate and repeatable, delivering high-quality, professional results for every application.

Efficient

Fitted with automatic tube bundle loaders, our machines can process bulk orders with unprecedented speed. Rather than manually loading each piece onto the machine, an entire bundle of material is loaded at once, then automatically separated and fed through for further processing.





Accurate

ParkerSteel's tube laser machines are powered by CNC technology, ensuring exceptional cutting tolerances and absolute accuracy. This high level of precision is ideal for creating consistent, repeatable cuts or processing intricate details to a professional standard.



Versatile

While tube laser excels at complex designs, it is also a preferred cutting method for simpler jobs, providing a fast and efficient alternative to saw and drill. It combines multiple manual operations, such as sawing, drilling, chamfering, mitre cutting and more, into a single, effective service, dramatically reducing your fabrication time and costs. These processes can be quickly replicated due to the automatic bundle loading feature, further enhancing its speed and productivity.



Circular Tube V-Notch

Circular tubes can be V-notch cut and folded at predetermined angles to create a curved geometrical shape from a single piece of material.





Curved Notch

A radiused corner is created on square or rectangular hollow section, resulting in an aesthetic, curved component which is ideal for furniture or rack systems.

V-Notch

Often used to create table frames for furniture without the use of a jig, V-notch cutting allows the hollow section to be folded to form bends of varying degrees.



Slotted Plate Connections

Tubes and hollow sections can be slotted into plates to form highly accurate, self-locating connections with minimal assembly time required.



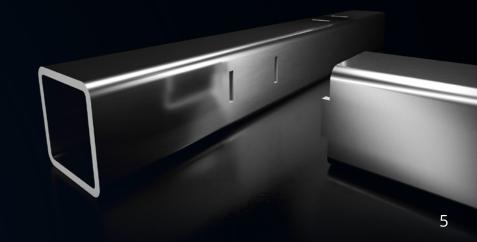
Extended Connections

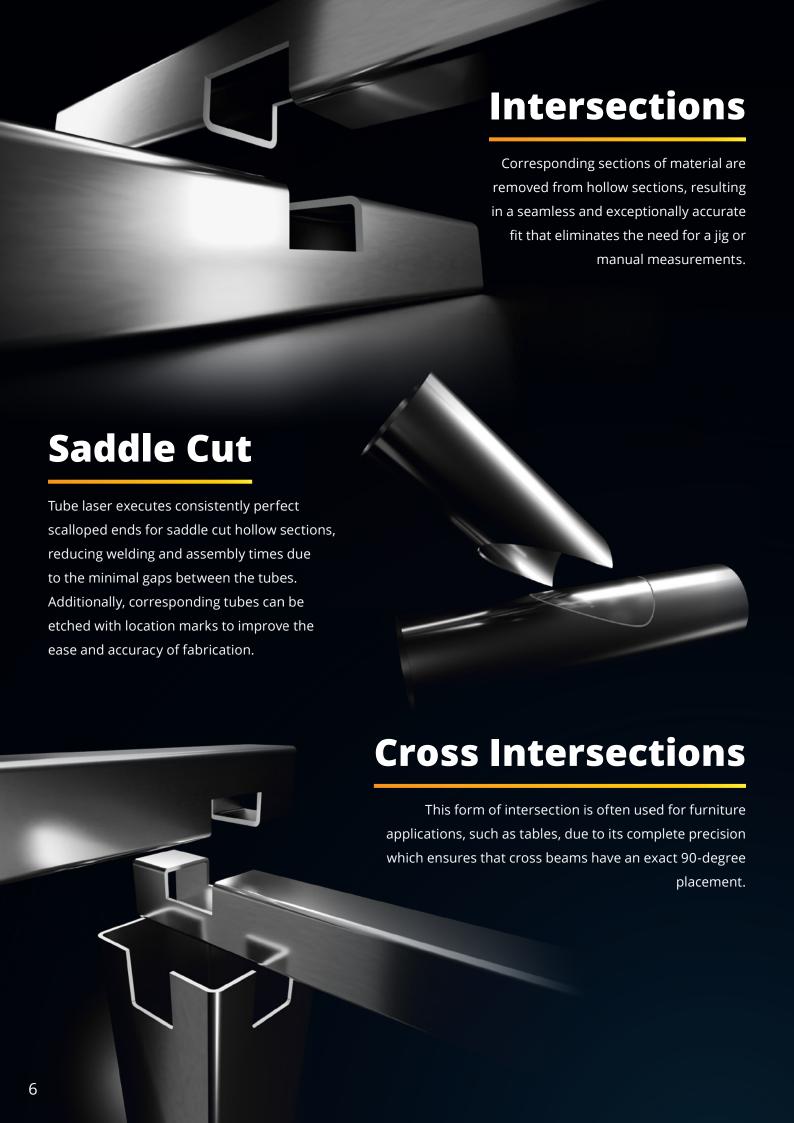
New joint connections can be created to speed up assembly with tubes that can be tagged and slotted into square or rectangular hollow section with absolute precision.



Connectors

Slots and tags are cut into corresponding hollow sections, allowing effortless, selfjigging assembly for furniture or frames that simply requires welding.













XA Holes VS XY Holes

The tube rotates around the A axis (360° rotation) and back and forth along the X axis (length), keeping the laser head perpendicular to the material.

The laser head traverses the Y axis (width), whilst the tube moves back and forth on the X axis (length) to form precise cut outs.

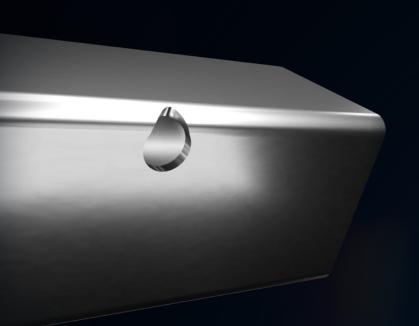


AT A GLANCE

As the default method of hole cutting, XA holes are processed with speed and efficiency, resulting in a tapered finish that is ideal for welding.

AT A GLANCE

XY holes are true vertical, drill-style holes. While the process is lengthier, its absolute precision is required for certain applications, particularly for tapped/threaded holes.



Radius Holes

Holes cut near the radius of a box section will be XA by default and have a 'tear-drop' shape due to the curved edge of the material.



2D MITRE / STANDARD LASER MITRE

The cutting head of the laser aligns perpendicularly to the material surface, creating a 'snub nose' appearance with flat edges as opposed to a finely tapered point.

AT A GLANCE

2D cutting offers a fast and cost-effective tube laser solution but is not suitable for every application due to the flattened edges it produces.

3D MITRE / TRUE MITRE

The tilting motion of the tube laser cutting head delivers a more intricate cut than a 2D mitre, resulting in a fine, precise point on the material.

AT A GLANCE

3D mitre cutting produces a sharper finish but demands more time as the laser navigates the varying thicknesses of the material.

More than Tubes...

Despite their name, our tube lasers can process an array of products, including:

- Angle Section
- Channel Sections
- Flat Bar
- Hollow Section

Get in touch with us to discuss how we can streamline your next project with our tube laser services!



More Machines, Faster Lead

Times

With six cutting-edge BLM Adige and Trumpf tube laser machines across ParkerSteel's Canterbury and Dudley depots, we have significantly increased our capacity for tube laser orders. This investment translates into shorter lead times for our customers, ensuring that you get the steel you need when you need it.

3D Tech

The 3D cutting technology and exceptional tolerances of tube laser machines unlock an astonishing range of construction possibilities that cannot be achieved by hand cutting or alternative machines.

SUPPORTED FILE FORMATS - 2D

O DXF

O DWG

SUPPORTED FILE FORMATS - 3D

⊗ STEP - preferred

⊘ IGES

✓ IFC

For faster quotes and processing, send both 2D and 3D file formats to your account manager or sales@parkersteel.co.uk

Technical Specification

	Mild Steel		Stainless Steel		Aluminium	
	Min	Max	Min	Max	Min	Max
Length	5mm	8,000mm	5mm	8,000mm	5mm	8,000mm
Weight		35kg/m		35kg/m		35kg/m
Wall Thickness		12mm		6mm		4mm
Tolerance		+/-0.3mm		+/-0.3mm		+/-0.3mm

TUBE PRODUCTS Mild Steel / Stainless Steel / Aluminium Min Max Circular Diameter 12mm 220mm Square Section 12mm 200mm Rectangular Section 10 x 20mm 200 x 150mm

STRUCTURAL SECTION PRODUCTS Mild Steel Min Max Parallel Flange Channel 30mm 200mm







