



MIDDLESEX  
**LASER**  
CUTTING



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## ABOUT US

Middlesex Laser cutting is an outstanding laser cutting service using the latest technology to provide the highest quality of service in our production of laser cutting to customers throughout the UK.

The company was formed as a division of LDJ Sheet Metal Engineering due to the ever increasing demand for higher standards and a quicker turnaround.

Situated within the M25 close to the M40 & M4 we can supply a quick turnaround and delivery service throughout the UK - at a highly competitive price.



## PRODUCTS AND SERVICE

Our newly installed Prima Platino 1530 slab laser cutting system equipped with an automatic pallet changer is capable of cutting precisely through thicknesses of up to:

Mild Steel - 20mm  
Stainless Steel - 8mm  
Aluminium - 6mm

All sheets are available up to a large 3m x 1.5m cutting bed.

This machinery presents design engineers with new possibilities for cost-effective component manufacture. Intricate shapes can be cut from either metal sheet or plate in tube, angles and box sections without the need for investment in tooling.

### Origination

Middlesex Laser accepts data in many formats including drawings and sketches, DXF, DWG and templates. We also work from data supplied to generate CAD/CAM designs.

We provide a subcontract laser cutting service as well as being able to supply all the following in house:

- CNC Pressbraking
- CNC Forming & Punching on our Trumpf Punch presses
- MIG welding
- TIG welding
- Spotwelding



## BENEFITS OF LASER CUTTING

### Laser Cutting

Laser cutting systems are at their effective best when producing a precise cut because of the accuracy of the fine laser contact.

Laser cutting can produce complex internal and external detail, small diameter holes can be produced and remove the need for further machining operations.

Our machinery provides a range of benefits to our customers:

- Gives a superior edge finish that requires no de-burring or finishing
- Intricate detail, etching & marking are all possible
- Lasers can cut complex shapes without the need for tooling
- Speed is comparable or faster than other profile cutting methods
- Localised heat distortion is reduced
- A polished edge finish can be achieved on stainless steel using a nitrogen assist gas

### Large Capacity

The 3m x 1.5m cutting bed of the Prima Platino 1530, which is larger than most CNC laser cutting systems allows us to use larger sheet sizes, which, combined with automated nesting means that material costs are reduced for our customers. The oversized cutting bed also allows us to supply larger laser cut profiles than most other laser cutting companies, useful for architectural and retail applications.

### High Speed

One of the primary features of the Platino CNC laser cutter is its speed. Equipped with flying optics moving at speeds of up to 140m/min, a high speed pallet changer and no manual adjustments required between material changes we are ideally suited to carry out high volume detailed profile work quickly.

### Box Sections

The Platino also offers 150mm Z axis travel which allows us to make precision cuts from either metal sheet or plate in tube, angles and box sections up to 150mm tall without the need for tooling.