

PRECISION METAL CUTTING AT JC METALWORKS



UNMATCHED TECHNOLOGY FOR PRECISION CUTS

At JC Metalworks, our cutting department uses advanced technologies for precise and efficient metal cutting results. Our techniques include fibre laser cutting and automated punching. We have skilled professionals operating cutting-edge technology to deliver precise cuts on delicate materials or thick metal sheets.



QUALITY ASSURANCE

At JC Metalworks, we adhere to stringent quality control measures, ensuring every cut meets the highest standards. Our commitment to excellence extends beyond precision and accuracy, encompassing exceptional edge quality, tight tolerances, and minimal distortion.

Our experienced technicians possess a deep understanding of metal cutting and punching intricacies, enabling us to maintain our high standards. Before components progress to the forming department, our operatives meticulously inspect each part, ensuring precise cutting or punching.

Our deburring process eliminates sharp edges left by cutting or punching, enhancing safety and aesthetics while preventing corrosion and prolonging component life. We carefully control edge finishes, offering brushed, polished, and mirror-polished options, tailored to customer specifications and application requirements.

Regularly checking the sharpness of our cutting and punching tools ensures clean, precise cuts, preventing burrs, distortion, and other defects. These stringent quality control measures guarantee metal components that meet the highest standards.





FIBRE LASER CUTTING CAPABILITIES



Our cutting-edge technology and years of experience make us capable of effectively cutting metals like mild steel, aluminium, and stainless steel. Our two Amada Fibre Laser Cutting machines achieve smooth, defect-free cutting of aluminium & stainless steel sheets. With faster turnaround times, lower costs, and higher quality services, our machines use state-of-the-art fibre laser technology to achieve precise & intricate cuts on various metals with unparalleled speed & accuracy.

Speed and efficiency

Both our Amada Ventis-3015AJ Fibre Laser and Amada FOL3015 AJ Fibre Laser Cutter utilise fibre laser technology for swift and accurate metal cutting. This ensures efficiency in project delivery without compromising precision.

Precision on various metals

It delivers precise and intricate cuts on a variety of metals, including stainless steel and aluminium. This technology ensures consistent, high-quality results across different materials.

Clean edge quality

Produces cuts with exceptional edge quality. This minimises heat-affected zones, providing cleaner edges and reducing the need for additional finishing processes.

Thickness versatility:

It can handle a broad spectrum of metal thicknesses, from thin sheets to thick metal plates spanning from 22mm to 0.7mm. This flexibility allows us to meet the demands of various industries.

ADVANTAGES OF FIBRE LASER CUTTING





AUTOMATED PUNCHING FOR VERSATILE DESIGNS



At JC Metalworks, we understand the benefits of using punching for custom metal fabrication. Our skilled operators use a CNC turret punch machine that offers high-speed, precision, and cost-effectiveness. Punching can eliminate secondary forming operations, reduce lead times, and ensure consistent high quality.

Our Amada EMZ3610 CNC Turret Punch and Amada Europe 258 Punch bring versatility to our cutting capabilities. With automated punching, we produce clean, accurate holes, notches, louvers, and shapes in metal sheets, ensuring optimal design flexibility. This technology allows us to elevate your projects with precision and efficiency, delivering results that exceed expectations.

Our Amada EMZ3610 CNC Turret Punch is a versatile tool with capabilities that enhance metal cutting efficiency:

Precise louvers

The turret punch excels in creating louvers with precision, whether it's standard designs or intricate custom patterns.

Efficient threading and tapping

The turret punch efficiently creates threading and tapping holes, saving time whilst maintaining the integrity of your designs.

Versatile forming

Beyond standard cutting, our turret punch is equipped for versatile forming, offering flexibility in creating various forms for your projects.

ADVANTAGES OF TURRET PUNCH MACHINE

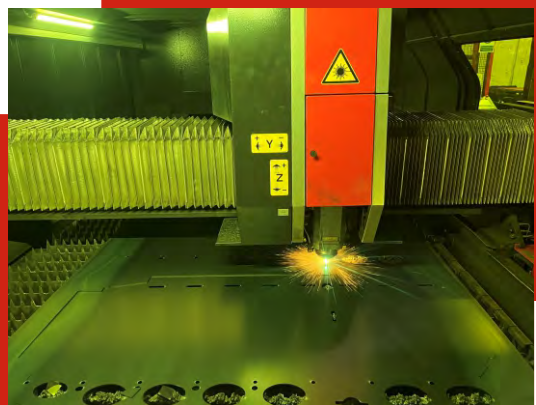


MACHINE

SPECIFICATION TABLES

MACHINE	AMADA FOL 3015 FIBRE LASER
TECHNICAL SPECIFICATION	
Max Sheet length	3000mm
Max Sheet Width	1500mm
Max Material Thickness:	
• Mild Steel	22mm
• Aluminium	16mm
• Stainless Steel	18mm
Features	Lights out cutting Auto load and unload Etching

MACHINE	AMADA VENTIS-3015AJ FIBRE LASER
TECHNICAL SPECIFICATION	
Repeatable positioning accuracy (mm)	± 0.01
Max Sheet length	3000mm
Max Sheet Width	1500mm
Max Material Thickness:	
• Mild Steel	25mm
• Aluminium	16mm
• Stainless Steel	20mm
Features	Lights out cutting Auto load and unload 8 pallet storage tower Etching



MACHINE	AMADA EUROPE 258 Punch
TECHNICAL SPECIFICATION	
Max Sheet length	4000mm
Max Sheet Width	1250mm
Max Material Thickness:	
• Mild Steel	3mm
• Aluminium	3mm
• Stainless Steel	2.5mm
Tools	200+ Standard Tools 45+ Special forming & Cluster Tools M4 & M5 Tap and Burst Countersinking Tools Louvre Tools Emboss Tools

MACHINE	AMADA EMZ 3610 + NT + PDC Punch
TECHNICAL SPECIFICATION	
Max Sheet length	3050mm
Max Sheet Width	1500mm
Max Material Thickness:	
• Mild Steel	3mm
• Aluminium	3mm
• Stainless Steel	2.5mm
Tools	200+ Standard Tools 45+ Special forming & Cluster Tools M4 & M5 Tap and Burst Countersinking Tools Louvre Tools Emboss Tools
Features	Lights out cutting Auto load and unload Auto Tool Change (45 Stations)

GET IN TOUCH

Our cutting department is more than just a service; it's a commitment to turning your designs into reality. With cutting-edge technology, skilled professionals, and an unwavering dedication to quality, we're ready to take your projects to the next level of excellence. Get in touch with us today and experience the unparalleled precision of JC Metalworks.

Contact us today to discuss your project requirements and experience the difference of working with a trusted leader in metal fabrication.

Call us at 01509 233280 or email us at sales@jcmetalworks.co.uk and we'll be happy to assist you.

