

HRB 1003



**JC METALWORKS:
DESIGN &
ENGINEERING
SERVICES**



TRANSFORMING YOUR IDEAS WITH PRECISION METAL FABRICATION

At JC Metalworks, we understand the importance of exceptional design and engineering when creating high-quality metal products. Our skilled engineers and project managers collaborate closely with you throughout the design and development process, ensuring your vision becomes a reality.

DESIGN SUPPORT

Our specialist project engineers are here to bring your concepts to life. We utilise modern design techniques and industry-leading software like Solidworks, Radan, and Amada to transform your initial ideas into fully specified and engineered product design drawings ready for precision manufacturing and fabrication.





BENEFITS OF JC METALWORKS DESIGN SUPPORT

Collaborative design process

We work closely with you to understand your needs and bring your vision to life.

Advanced design software

We utilise cutting-edge technology to ensure precise and efficient product design.

Manufacturing expertise

Our engineers have extensive knowledge of metal fabrication

processes, ensuring designs are optimised for volume production.

Cost-effective solutions

We focus on creating designs that are functional and cost-effective to manufacture.

Commitment to quality and precision

We are dedicated to delivering exceptional results and exceeding your expectations.

Skilled and experienced engineering team:

With over 35 years of experience, our engineers have the knowledge and expertise to bring your project to life.

VALUE ENGINEERING

Our experienced engineers have extensive knowledge of all metal fabrication processes, enabling them to do more than just design. We collaborate closely with the client to ensure that designs are approved before creating a value-engineered version. This expertise results in significant value engineering benefits for your project.

› Cost optimisation

Our engineers are experts at identifying opportunities to reduce production costs without compromising quality.

› Process selection

We don't have a one-size-fits-all approach. By understanding the intricacies of each fabrication process, like punching, laser cutting, welding, and folding, we can recommend the

most efficient and cost-effective method for your specific component. For example, punching can sometimes be more efficient than laser cutting for simple shapes, reducing project costs.

› Welding reduction

Our engineers have expertise in evaluating designs and suggesting alternative joining techniques. By introducing bending and forming, we can reduce the need for costly welding while strengthening the product.

› Flexibility is key

Our engineers understand that the optimal fabrication process depends on the specific metal component. They don't limit themselves to a single approach and will design the processes around your unique needs.





ENGINEERING SOLUTIONS

Looking for innovative design and engineering solutions for your metal fabrication project? Look no further than JC Metalworks. Our skilled engineers possess in-depth knowledge of metal fabrication and collaborate closely with you to:

› **Understand your requirements**

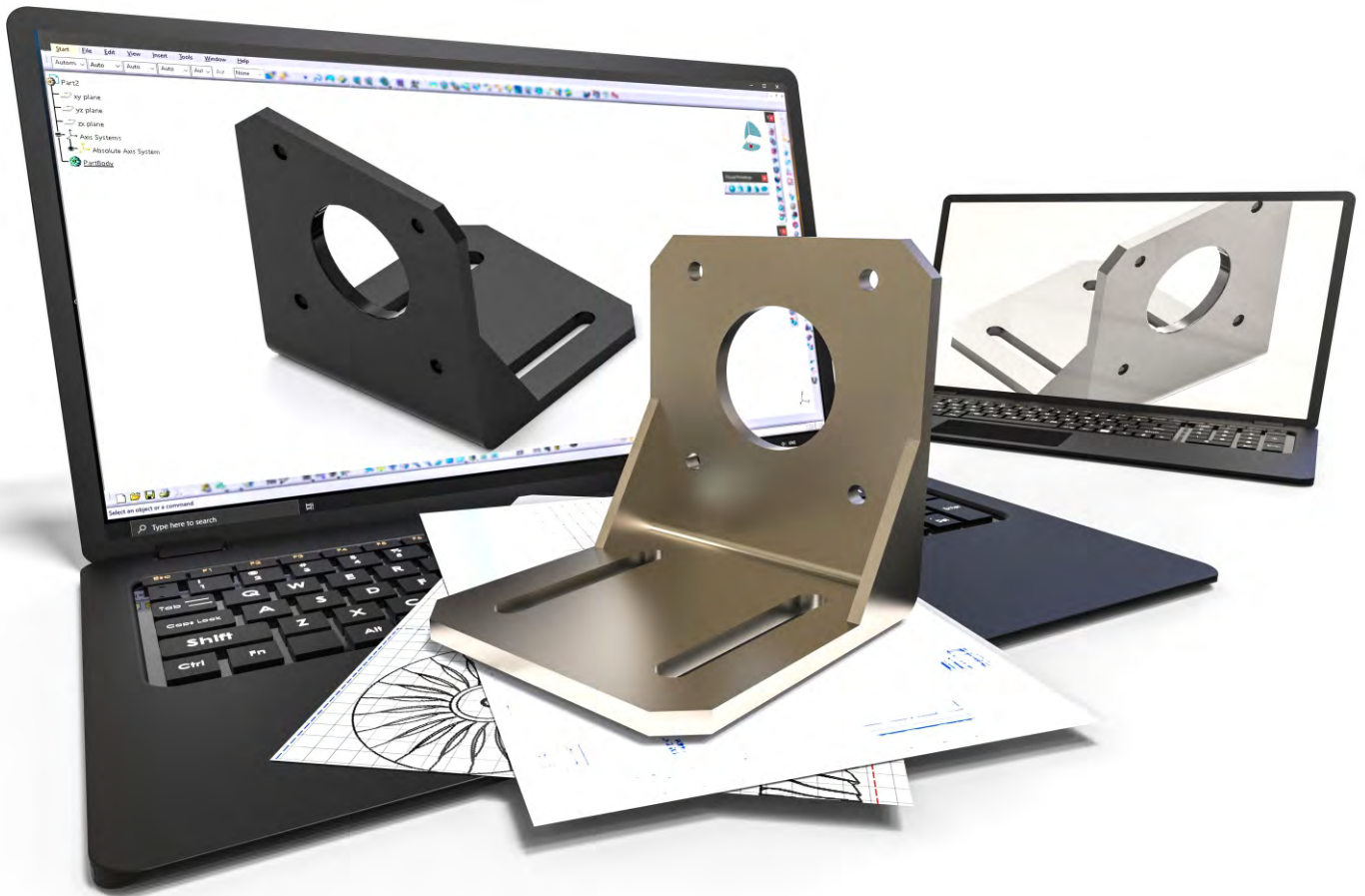
We take the time to understand your project goals and challenges.

› **Develop creative solutions**

Our team offers creative and practical solutions to achieve your design objectives.

› **Ensure precision and functionality** Detailed engineering drawings guarantee precision and functionality in the final product,





REVERSE ENGINEER SERVICES

JC Metalworks offers comprehensive reverse engineering services to meet your unique needs.

› Reverse engineering

Do you have an existing metal component that needs replication or improvement? Our advanced scanning and measurement technologies allow us to recreate or enhance your component with accuracy and precision.

› Material selection and optimisation

Our engineers possess a deep understanding of various metals and alloys to recommend the most suitable materials for your project, considering factors like strength, durability, and cost-effectiveness.

› Prototyping and testing

We offer prototyping and testing services before full-scale production. Using advanced manufacturing techniques, we can create functional prototypes for evaluation and ensure your design meets expectations.

› Value engineering

We continuously seek opportunities to enhance designs, optimise manufacturing processes, and improve product performance through value engineering.

› Collaborative approach

We believe in open communication. Our team will work closely with you, keeping you informed and involving you in decision-making throughout the process.



Contact us today to discuss your design and engineering needs. Let JC Metalworks turn your metal fabrication vision into reality!

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

