

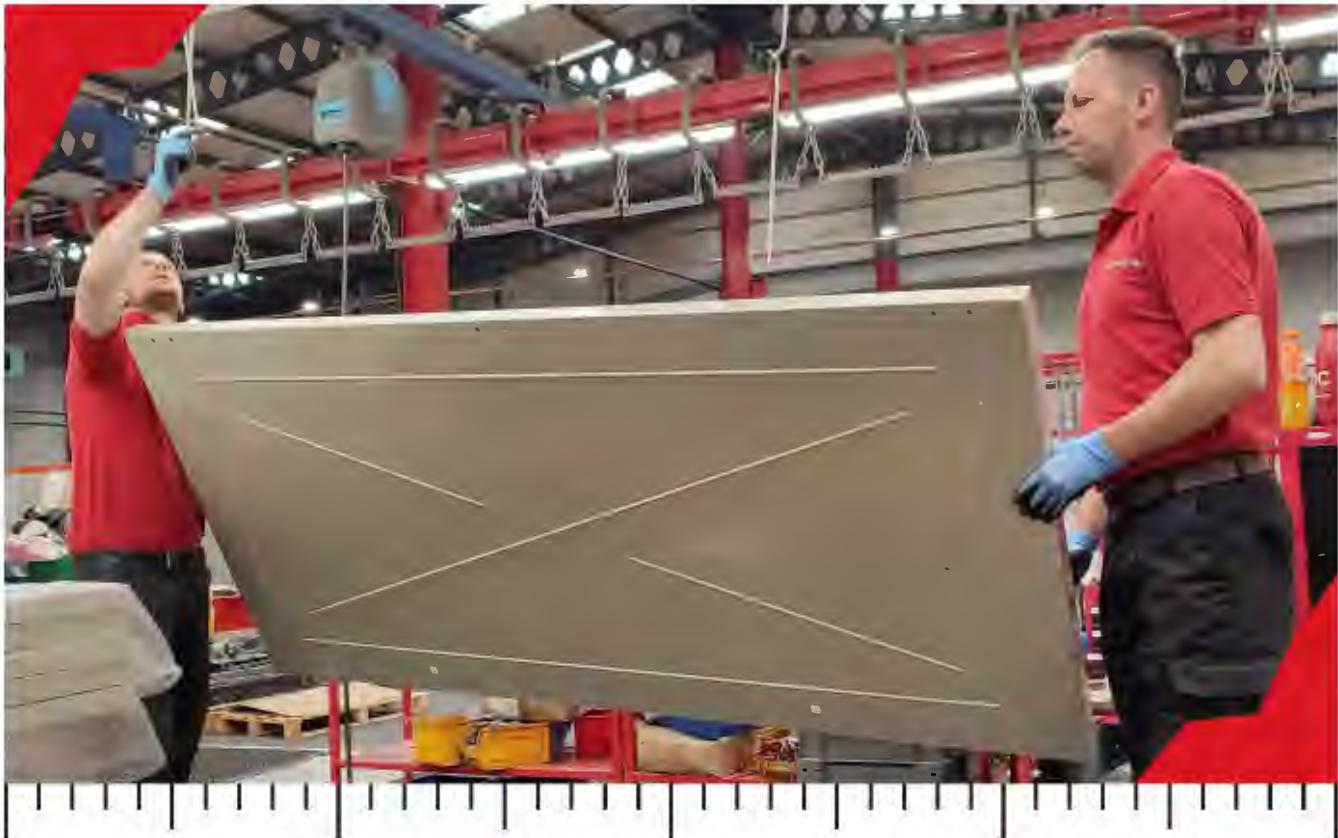


**JC METALWORKS:  
YOUR TRUSTED PARTNER  
IN POWER GENERATOR &  
BATTERY STORAGE ENCLOSURES**

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**Secure and reliable protection  
for your critical equipment**

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JC Metalworks is a leading UK manufacturer of high-quality metal enclosures for power generators and battery storage systems. We understand the importance of safeguarding your vital equipment from the elements, vandalism, and potential hazards. Our custom-designed enclosures offer superior durability and functionality, ensuring the smooth operation and extended lifespan of your power generation and storage solutions.

## TECHNICAL EXPERTISE FOR POWER GENERATOR & BATTERY STORAGE ENCLOSURES

Beyond exceptional fabrication processes, JC Metalworks leverages years of experience in the power industry to deliver in-depth technical expertise in designing and manufacturing power generators and battery storage enclosures. Here's a closer look at what sets us apart:

### Understanding of power & battery systems

Our engineers have a thorough knowledge of the specific requirements of power generators and battery storage units. This includes factors like

heat generation, ventilation needs, and potential hazards associated with electrical components.

### Material selection

Our engineers understand the critical role materials play in enclosure performance. We use high-strength steel or aluminium alloys that can withstand significant weight, potential impact, and harsh weather conditions. We also consider factors like corrosion resistance and thermal properties to ensure optimal protection for your specific equipment.



### **Thermal management expertise**

We have automatic punch machines which enable us to design enclosures that optimise airflow and incorporate cooling systems like louvres and ducts to ensure proper heat dissipation and prevent overheating of your equipment. This extends the lifespan and optimises the performance of your power generation and battery storage systems.

### **Structural integrity for heavy equipment**

Our enclosures are designed and constructed to

withstand the significant weight of power generators and battery storage units. We use robust materials and employ structural reinforcement techniques to ensure the enclosure remains stable and secure even under heavy loads.

### **Compliance with safety regulations**

We are well-versed in safety regulations pertaining to power generation and battery storage equipment. Our enclosures are designed and built to comply with all relevant safety standards, minimising electrical hazards and ensuring operator safety.

### **Knowledge of environmental factors**

We consider the environmental conditions in which the enclosure will be deployed. This includes factors like wind, rain, snow, and potential exposure to corrosive elements. We use weatherproof materials and incorporate design features to protect your equipment from the environment. To ensure watertight enclosures, we use a combination of gaskets and silicon sealant.

### **Integration expertise**

We acknowledge the significance of achieving seamless electrical integration between enclosures and power generation or battery storage systems. Our team understands the critical role that electrical integration plays within power systems. We design enclosures to accommodate specific equipment requirements, incorporating features such as cable management systems and access panels for efficient maintenance. Additionally, we ensure that the enclosure dimensions are meticulously tailored to house all components effectively.



## FROM CONCEPT TO COMPLETION: YOUR ONE-STOP SHOP

With over 35 years of experience in metal fabrication, JC Metalworks provides a comprehensive service, guiding you through every stage of the enclosure development process.

**Design & Engineering:** Our skilled team collaborates with you to develop an enclosure that perfectly meets your needs. Our team is here to answer your questions and guide you through the process. Our efficient processes ensure fast turnaround times and competitive pricing.

**Prototyping & Fabrication:** Our state-of-the-art machinery and expert technicians ensure precise metal cutting, bending, welding, and powder coating. This meticulous approach guarantees a perfect fit and a flawless finish for your enclosure.

**Built to Last:** Our enclosures utilise robust materials and construction techniques to withstand harsh environments, heavy loads,

and potential physical impact.

**Security Features:** We offer optional security features like locking mechanisms, security cages and can integrate alarm systems to deter theft and unauthorised access.

**Quality Assurance:** We adhere to stringent quality control procedures throughout the manufacturing process, ensuring every enclosure meets the highest industry standards and safety regulations.

**ISO Certification:** JC Metalworks is proud to be ISO 9001:2015 and ISO 14001:2015 certified, demonstrating our commitment to quality and environmental responsibility.

**Exceptional Customer Service:** We prioritise clear communication and collaboration throughout the project, ensuring your complete satisfaction.

# Our services include:



## Metal cutting & punching

We utilise state-of-the-art machinery such as Amada fibre laser and automatic turret punch machines to cut and punch metal components with the precise requirements needed for the power generator & battery storage enclosures.



## Welding

Our certified TIG, MIG, spot, and robotic welding capabilities ensure robust and aesthetically pleasing welds, resulting in strong and secure structures that meet the demanding standards of the power generator & battery storage enclosures.



## Powder coating

We offer a wide range of high-quality powder coat finishes designed to provide a durable and visually appealing exterior for the enclosures, ensuring both functionality and aesthetic appeal.



## Forming

Utilising advanced metal bending technology, including two Amada press brakes, LVD Ultimate bending, Salvagnini, and an automatic HRB-ATC Amada press brake, we create custom shapes and structures tailored to meet the rigorous requirements of the power industry.



## Assembly

Our experienced team meticulously assembles all components, adhering to strict quality control measures to ensure a perfect fit, flawless finish, and compliance with industry standards.



## Packaging & dispatch

We prioritise the safe and secure packaging of your equipment to ensure it is protected during transit. Our efficient dispatch processes ensure timely.





**JC Metalworks combines metal fabrication expertise with technical knowledge to create superior enclosures that protect your power equipment and enhance performance. Partner with us for your precision sheet metal subcontracting and take advantage of our high-quality manufacturing.**

**For more information on how we can help you,  
please call us at  
01509 233280  
or email us at  
[info@jcmetalworks.co.uk](mailto:info@jcmetalworks.co.uk)  
and we'll be happy to assist you.**