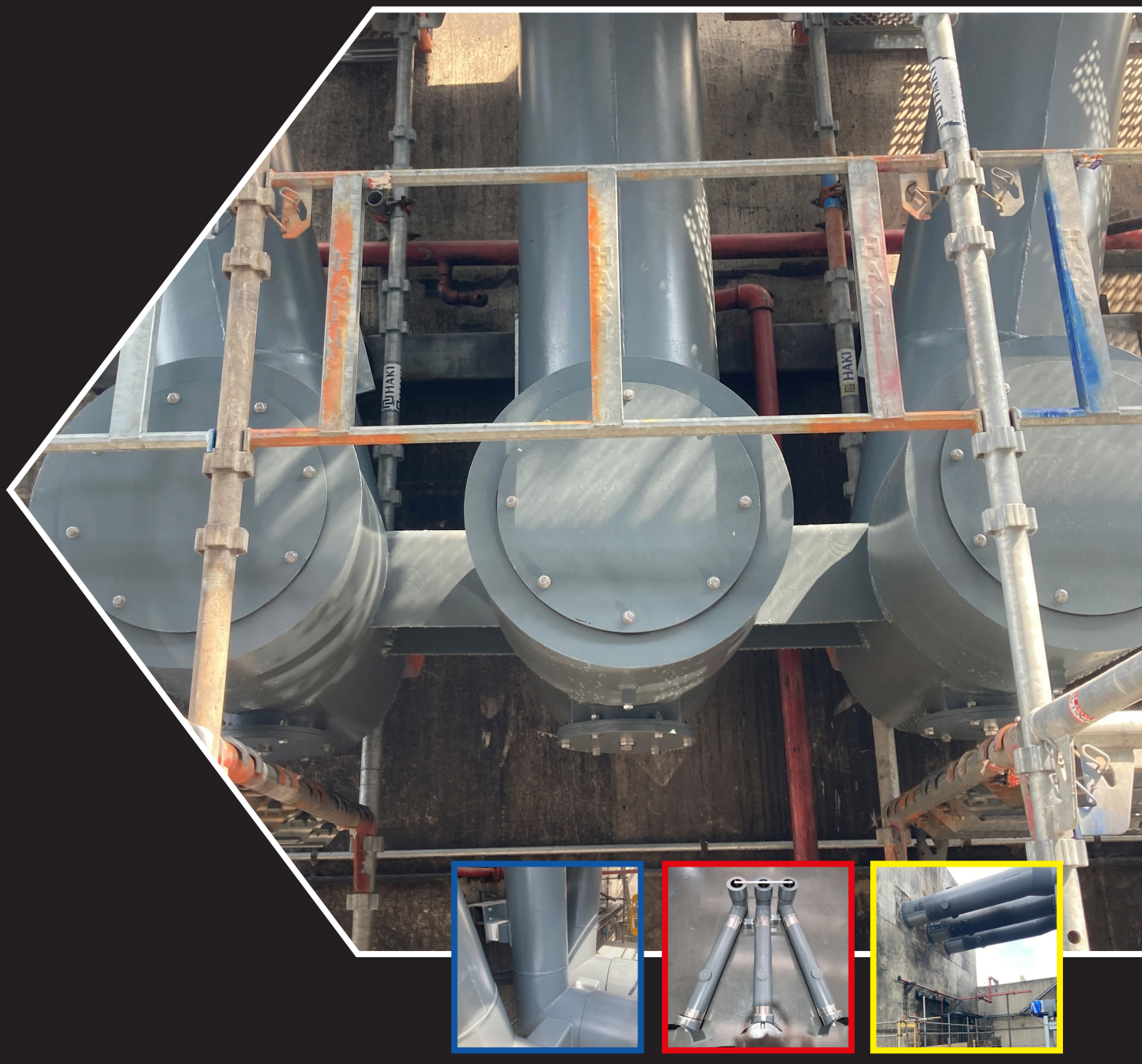
GKW
The Busbar Specialist

Design • Manufacture • Fabrication • Installation



3 PHASE TEE SECTION CASE STUDY

Fabricating essential sections for Medway Power Station

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GKW is a world leader in every aspect of all busbar systems' design, manufacture, supply, installation, and commissioning. GKW Isolated Phase Busbar (IPB) has been supplied to fossil fuel, hydroelectric and nuclear power stations worldwide.

For this project, GKW was commissioned to manufacture a 3-phase tee section IPB, which is a critical component used in electrical power transmission systems, for Medway Power Station

Project Overview

The tee section is designed to connect the generated power back to the station's essential services via the Auxiliary Transformer. This project was to redesign the busbars to ensure they would meet the features of the new transformer that was getting installed and that the IPB would meet the new specified requirements and standards.

By working closely with the client from the design stage, we can ensure that our system will connect seamlessly with the existing on-site plant before any fabrication occurs.

Gordon Kitto Welding Ltd
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Specialist fabrication

Our fabrication system involves a meticulous process, from thorough material preparation to the final inspection and electrical testing.

Before beginning work on the IPB fabrication, our team carefully inspected the aluminium 1050A materials to ensure they met our stringent quality standards. Once the design was signed off, our highly skilled team began cutting the materials to length and ensuring the dimensions met the exacting design.

We undertake strict quality control checks at every stage of the manufacturing process to identify any defects, dimensional variations, or other issues with the fabrication, enabling our team to identify any problems so they can be rectified quickly.

Our team is highly skilled at achieving the precise dimensions and tolerances needed to ensure proper fit and functionality. Maintaining consistent quality throughout the manufacturing process is managed via our stringent quality control measures, overseen at every stage in our workshop by our Production Manager.

Once the tee sections were complete, we undertook extensive in-house electrical testing to ensure proper insulation resistance and electrical continuity. This testing verifies that the tee sections meet the required electrical specifications and gives our clients confidence that the IPB is ready for installation.

By commissioning GKW to manufacture the IPB, our customer could rely on our expertise from design to installation, safe in the knowledge; we had the skills, quality controls and team on hand to deliver within the timescale.

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About GKW

With over 50 years of experience, our team excels in busbar engineering, offering a comprehensive service encompassing design, manufacturing, supply, installation, and commissioning.

We specialise in providing Site Services to power stations, process plants, and factories, delivering busbar systems and specialised fabrications using various materials.

Our global reputation for quality and professionalism stems from our adeptness in successfully merging our electrical and mechanical engineering skills to execute projects from design to installation.

To discuss your project with our expert team, call 01744 762 330 or email us on sales@gordonkitto.co.uk

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