

ZW3D Empowers TTMetal to Streamline Design and Boost Productivity in Turkey's Sealing Boiler Industry



INDUSTRY

Sealing boiler design and manufacturing

PRODUCTS

Sealing boilers for the energy industry, including transformer tanks, expansion tanks, and cable boxes

WEBSITE

<http://transformertank.com.tr/>

❓ CHALLENGES

- Needed a reliable 3D CAD solution to speed up the design and production process
- Required a CAD tool capable of handling complex design tasks and quick revisions, especially when design requirements changed
- Faced challenges in maintaining high compatibility with external suppliers and ensuring smooth data sharing across different systems

🔗 SOLUTION

ZW3D

✅ RESULTS

- The design and production process greatly improved, allowing immediate project initiation without delays for file conversions.
- Intuitive interface and flexible tools enabled quick adjustments and revisions, improving design efficiency.
- High compatibility ensured smooth data sharing with suppliers, eliminating conversion issues and enhancing collaboration.

Delivering Reliable Sealing Boilers for the Energy Sector

TTMetal, based in Turkey, specializes in the production of sealing boilers that are crucial for maintaining pressure regulation in transformers and other key energy infrastructure components. Their product range includes transformer tanks, expansion tanks, and cable boxes, all designed to ensure the safe and efficient operation of energy systems in Turkey.



A transformer functioning in an outdoor environment

Driven by a clear mission: “We Weld For Energy,” TTMetal is dedicated to providing reliable, high-performance solutions for the energy sector. With a team of skilled engineers and welders, the company ensures that every product meets the highest standards of quality and durability while also delivering on time to meet customer demands. This commitment has enabled TTMetal to establish lasting

relationships in Turkey’s energy sector.

Embracing ZW3D for Seamless Design and Production

In the sealing boiler industry, design is crucial. As Mikail Alsaç, TTMetal’s draftsman explains, “In our business life and in the sector where we work, design programs are a necessity”. To address the complex design needs and tight production timelines, TTMetal recognized the need for an advanced CAD solution that would meet their technical standards and improve efficiency.

This is when TTMetal turned to ZW3D, as Mikail shares, “ZW3D offers us easy and understandable interface, economic suitability, and its ability to meet our working standards. The performance and capabilities offered in this price range are amazing. That's why we preferred ZW3D”.

Streamlining Design and Production with ZW3D

Since adopting ZW3D, TTMetal has significantly improved the efficiency of their design and production processes. “Our designs mostly involve sheet metal processes. Therefore, ZW3D’s sheet metal design, technical drawings, and assembly relationships have saved time and facilitated the manufacturing process of our products”, Mikail

shares.

The design process at TTMetal is dynamic. It's common for initial concepts to require revisions or even complete redesigns to meet specific client needs or technical requirements. Since integrating ZW3D into their workflow, TTMetal has been able to respond quickly to these changes, saving valuable time and resources. "With ZW3D, we can make changes quickly, whether it's a minor adjustment or a major redesign. It allows us to remain agile throughout the design process."



A key feature that TTMetal leverages in ZW3D is the Sheet Metal module. Designing complex sheet metal parts with high precision is essential for TTMetal's product range, which includes transformer tanks, expansion tanks, and cable boxes. Mikail shares, "The sheet metal tools, such as flexible flange design, corner closing, and Normal Cut commands, have been invaluable. They allow us to streamline what would otherwise be a complex and time-consuming process, reducing the need for manual adjustments."

Furthermore, ZW3D's HTML saving feature has become an integral part of TTMetal's collaboration with external suppliers. Mikail explains, "Sharing assembly data in HTML format has been very effective in communicating the purpose of each part in the assembly. It ensures that our suppliers understand the role of each component and helps maintain the security of the main assembly data." Once TTMetal's 3D models are finalized, 2D

production drawings can be exported smoothly, which allows them to start manufacturing right away.



Thanks to ZW3D, TTMetal has achieved significant improvements in productivity. From modeling and assembly design to sheet metal part design and 2D documentation, ZW3D has helped TTMetal streamline almost every aspect of their design and manufacturing process. As Mikail sums up, "ZW3D has truly enhanced our ability to work faster, with more precision, and with fewer revisions. It's become a vital part of how we deliver quality products on time."

Advancing Turkey's Sealing Boiler Industry with ZW3D

As ZW3D continues to support TTMetal's operations, the benefits are evident. The software has dramatically improved the speed and accuracy of TTMetal's design processes, helping them meet the growing demands of the energy sector. Mikail summarizes, "We complete almost every project that comes to our company with the ZW3D program and supply it to our customers."

With ZW3D, TTMetal has not only increased productivity but also improved their ability to collaborate with suppliers and maintain control over the security and quality of the assembly data. As TTMetal continues to grow, they plan to continue relying on ZW3D as a core tool to streamline their operations and stay competitive in the market.

ZWSOFT

ZWSOFT has been delivering reliable all-in-one CAX solutions since 1998. With over 20 years of experience, our products have been chosen and trusted by over 1.4 million customers in more than 90 countries worldwide.

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