Exceeding Precision Standards with Advanced Material Handling

![ALTER TECH 株式会社]

INDUSTRY
Precision Metal Machining

SERVICE
High-precision metal components, jigs, and assembly tools for industries like healthcare, automotive, and electronics, with expertise in both machining and 3D-printed complex shapes.

WEBSITE
www.altertech1129.com

CHALLENGES

· Demand for quickly training staff with limited design experience.
· Need for compatibility with various client file formats.
· Difficulty in effectively conveying complex design concepts to clients.

SOLUTION

ZW3D

RESULTS

· Rapid onboarding process, empowering staff within weeks.
· Seamless compatibility with diverse file formats, improving workflow.
· Enhanced 3D visualization capabilities, boosting client trust and satisfaction.

Exceeding Precision Standards with Advanced Material Handling

Alter Tech, based in Amagasaki, Japan, is renowned for its expertise in high-precision metal machining, creating components and jigs for industries such as healthcare, automotive, and education. With a commitment to quality, Alter Tech achieves machining accuracy down to 0.001mm, positioning them as a trusted partner for complex projects involving specialized materials. This precision has built their reputation across sectors that require meticulous attention to detail.

Alter Tech designs and creates components and jigs for various industries

In 2023, with a vision to expand into additive manufacturing, Alter Tech sought a 3D CAD/CAM solution that could streamline design processes and make it easier for their team to produce high-quality 3D models. This led them to ZW3D, a solution that would not only meet their design needs but also support their transition into new manufacturing methods.
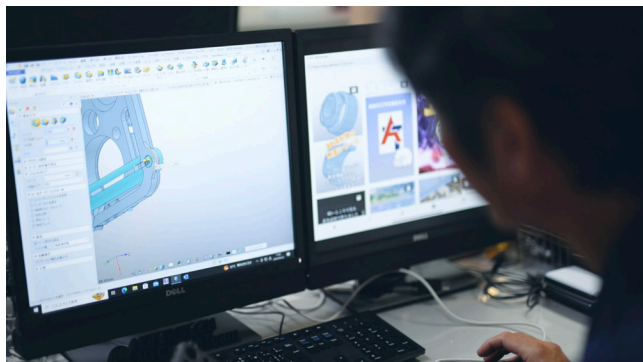
Simplifying 3D Printing Workflows with ZW3D

As Alter Tech ventured into 3D modeling, they faced several obstacles. One of the primary challenges was training their team to master new design software quickly. The company couldn't afford long training periods, particularly for staff with minimal design experience. Another challenge was handling various client data formats, such as STL, AI, and DXF. Managing these diverse file types efficiently was crucial to maintaining smooth workflows. Lastly, they needed a solution that would allow them to present clear, comprehensive design visuals to clients, as traditional wireframe displays often fell short of communicating the full concept.

Expanding Business Through ZW3D's Capabilities

After consulting with Technosolutions, their local distributor, Alter Tech chose ZW3D, known for its intuitive interface and extensive format compatibility.

"They recommended ZW3D, highlighting its strong features and advantages," recalls Tsuyoshi Kato from Alter Tech. With just three days of training, the team members were able to start using ZW3D confidently. "Incredibly, we can become proficient in using ZW3D like a professional in just three days," adds Kato.

Tsuyoshi Kato managed to use ZW3D after a 3-day training session

The simplicity of ZW3D's interface allowed Alter Tech to quickly integrate it into their workflow, allowing them to focus on project expansion rather than extended training sessions. This rapid onboarding was essential as Alter Tech looked to offer new services, combining machining with 3D printing.

Accurately Visualizing and Bringing Concepts to Life with ZW3D

One of ZW3D's standout features for Alter Tech was its extensive file compatibility, supporting major CAD formats such as SolidWorks, Creo, and CATIA, as well as intermediate formats like STEP and IGES. This flexibility allows Alter Tech to efficiently handle diverse client data, leading to smoother project workflows.

In addition to compatibility, ZW3D's 3D visualization capabilities were instrumental in improving client communication. "When visualizing their ideas and starting to take shape, ZW3D allows us to view shapes from every angle in detail," Kato explains. The ability to share 3D models on platforms like Instagram has also generated new client interest, helping Alter Tech broaden its reach in the industry.

Reliable Support for Seamless Workflow

Throughout their integration with ZW3D, Alter Tech has relied on the responsive technical support from ZWSOFT and Technosolutions to promptly address any challenges. "Whenever we run into an issue, the support team is just a phone call or email away," shares Kato. This dependable assistance has reinforced Alter Tech's confidence in their choice of ZW3D, providing peace of mind with reliable after-sales service to swiftly resolve potential disruptions.

Efficiently Turning Ideas into Reality for a Brighter Future

Since adopting ZW3D, Alter Tech has efficiently transformed ideas into tangible products, bridging the gap between concept and creation. The solution's user-friendly interface, versatile file compatibility, and enhanced visualization tools have empowered Alter Tech to innovate and expand their capabilities confidently.

View shape details from every angle with ZW3D

"Our goal is to be the first to create what the world needs," reflects Kato. "We know that transforming ideas into reality is not easy, but with ZW3D and our 3D printers, we're equipped with the powerful tools to do that." For companies looking to upgrade their CAD/CAM capabilities without the burden of long training periods, ZW3D offers an accessible and effective solution that delivers measurable results. With ZW3D, Alter Tech has enhanced their production workflow and reinforced its role as an innovator in high-precision metal machining and additive manufacturing, setting a new benchmark in the industry.