

From Design to Manufacturing: Huynh Duc Thrives with ZW3D All-in-One Solutions



HUỶNH ĐỨC

INDUSTRY

Precision Mechanics, Mold Making, Automated Machine Systems

PRODUCTS

Precision mechanical components, custom molds, and automated machine systems for industries such as automotive, electronics, and machinery

WEBSITE

<https://www.huynhduc.vn/>

❓ CHALLENGES

- Previous CAD software was costly and did not support the entire design and manufacturing process effectively
- The software lacked essential 3D modeling tools that were critical to Huynh Duc's workflow
- The absence of strong technical support led to difficulties in optimizing and integrating the software into daily operations

🔗 SOLUTION

ZW3D

✅ RESULTS

- Reduced design time from 1–2 weeks to just a few days, significantly boosting design efficiency
- Achieved improved accuracy and reduced errors across design, assembly, and production through ZW3D's All-in-One solution
- Exceptional technical support ensured continuous improvements, addressing specific needs and enhancing overall workflow

Founded in 1995, Huynh Duc Manufacturing Trading Service Co. specializes in precision mechanics, mold making, and automated systems. Serving clients like Mabuchi Motor, SMC, Doosan, and GE, the company has built a strong reputation in Vietnam's supporting industries and expanded its reach to markets including Japan, Australia, and the U.S.



Huynh Duc's factory in Dong Nai

A Comprehensive 3D CAD Solution to Meet Complex Design Challenges

Before adopting ZW3D, Huynh Duc faced significant challenges with their previous CAD software. The company required a CAD solution that should be cost-effective, easy to use, and capable of supporting the entire design and manufacturing process from start to finish. As Pham Ngoc Duy, Factory Director of the Dong Nai Branch, explains, "Efficient 3D modeling tools have become essential to our workflow. Additionally, the software has to

meet customer requirements and comply with Vietnam's Intellectual Property Law."

Given these challenges, ZW3D was selected as the solution that meets their needs, providing the advanced 3D modeling capabilities Huynh Duc needs while staying within budget and ensuring strong after-sales support.

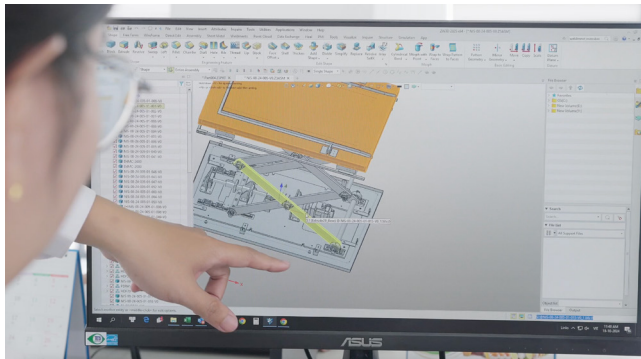
Seamlessly Integrating ZW3D All-in-One Solutions Across Design and Production

ZW3D All-in-One CAD/CAM, with its various modules designed to streamline the product development process, has seamlessly integrated into Huynh Duc's workflow. "Now, ZW3D All-in-One CAD/CAM supports our entire workflow, from design to manufacturing," says Tran Thanh Quang, Machine Design Engineer.

The process begins with creating preliminary 3D models. "After discussing customer requirements, we use ZW3D's quick block tools to create preliminary 3D models for quotes," says Tran Thanh Quang. Once the design is confirmed, they move quickly to the next stage—creating detailed models that define key parameters such as shape, size, material, and other properties. "ZW3D's Part Design module helps me create 3D models quickly, and the direct edit function is quick and straightforward," he adds.

As the design progresses, Huynh Duc integrates

individual parts into complete products using ZW3D's Assembly module. "Its smart checking tools help detect collisions, ensuring accuracy in manufacturing and operation," says Tran Thanh Quang.



ZW3D's smart checking tools help detect collisions

Additionally, ZW3D's HTML export feature lets customers review and approve designs at any stage. "This export feature allows customers to view and confirm designs anytime, anywhere, without additional software," says Tran Thanh Quang. As a result, the approval process is faster, helping keep projects on track.

On the production side, ZW3D significantly enhances CNC programming. "I use ZW3D to program 3-axis milling machines, which speeds up our workflow significantly. "ZW3D simulation function helps to check tool path, ensure accuracy and safety during machining," shares Le Dinh Nhat, Production CNC Manager.

Thanks to ZW3D's seamless integration across design, assembly, and production, Huynh Duc has significantly reduced errors and increased accuracy, enabling the company to deliver high-quality products more efficiently and on time.

Unlocking Operational Efficiency and Cost Savings with ZW3D

ZW3D has proven to be a cost-effective solution. "ZW3D is the perfect solution for us. Its perpetual licensing policy, high quality, and reasonable price make it an excellent choice," says Pham Ngoc Duy.

The shift to ZW3D has significantly improved Huynh Duc's efficiency and reduced costs. "ZW3D reduces design time from 1-2 weeks to just a few days," says Tran Thanh Quang. Collaboration between design and manufacturing teams has also improved. "ZW3D has allowed our engineers and production team to work more effectively together. With real-time collaboration, we can ensure everyone is on the same page, reducing errors," adds Tran Thanh Quang.



ZWSOFT Vietnam provides continuous technical support services tailored to Huynh Duc

The standout advantage has been the exceptional after-sales support. "ZW3D's after-sales service is exceptional. Beyond technical support, they actively listen to customer feedback and continuously improve features to meet our specific needs," says Pham Ngoc Duy.

Scaling for Future Growth with Deepen Collaboration with ZW3D

Huynh Duc looks forward to expanding its use of ZW3D as the company grows. "ZW3D plays an integral role in our future operations," says Pham Ngoc Duy. "As we take on more complex projects, ZW3D's scalability and flexibility will be crucial to our success."

Huynh Duc plans to leverage ZW3D's advanced features to further improve productivity and efficiency across all areas of design and manufacturing. "We are confident that ZW3D will continue to support our growth and help us deliver better customer results," adds Pham Ngoc Duy.

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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