



## AKB ÇAĞLAYAN Transforms Mold Design and Production with ZW3D



**INDUSTRY**  
Mold & Die

**PRODUCTS**  
Design and manufacturing of plastic molds for lighting products

**WEBSITE**  
[www.facebook.com/people/Akb-C387aC49Flayan-Makine/61555499746832](https://www.facebook.com/people/Akb-C387aC49Flayan-Makine/61555499746832)

## ❓ CHALLENGES

- Required a powerful yet budget-friendly 3D CAD/CAM solution
- Needed an efficient CAD solution for mold design
- Sought an easy-to-use CAM solution to save time on programming

## 💡 SOLUTION

ZW3D

## ✅ RESULTS

- Accessed a robust 3D CAD/CAM solution at an affordable price
- Cut design time with ZW3D CAD's seamless compatibility and intelligent features
- Accelerated programming through ZW3D CAM's user-friendly interface and powerful capabilities

Founded by experienced engineer Kahraman Çağlayan, AKB ÇAĞLAYAN specializes in the production and maintenance of high-quality plastic molds for lighting products. Despite being a newcomer in the industry, AKB ÇAĞLAYAN has quickly established itself as a reliable and efficient provider of high-quality molds.

AKB ÇAĞLAYAN relies on 3D CAD software to handle project needs. "We first receive drawings from our clients. Then we create mold models using 3D CAD. After that, we create machining programs to process the molds." explains Kahraman.



A plastic product made by AKB ÇAĞLAYAN using a plastic mold

## Addressing Challenges with Powerful and Budget-Friendly 3D CAD/CAM Solution

As demand grows, AKB ÇAĞLAYAN faced several challenges: time-consuming 2D drafting, lengthy programming and extended project delivery time. They needed a solution that could streamline these processes while being affordable.

They learned about ZW3D through the introduction of GRUP OTOMASYON, a ZWSOFT reseller in Turkey. After a thorough evaluation, they found that ZW3D fitted their needs and adopted it through ZWSOFT's

Startup Program, a program that aims to help emerging companies grow with advanced CAX solutions.

"We chose ZW3D because it supports all the formats we need and offers smooth CAM operations. It's user-friendly and affordable," shares Kahraman.



A mold's component designed with ZW3D

## Cutting Design Time with ZW3D CAD's Seamless Compatibility and Intelligent Features

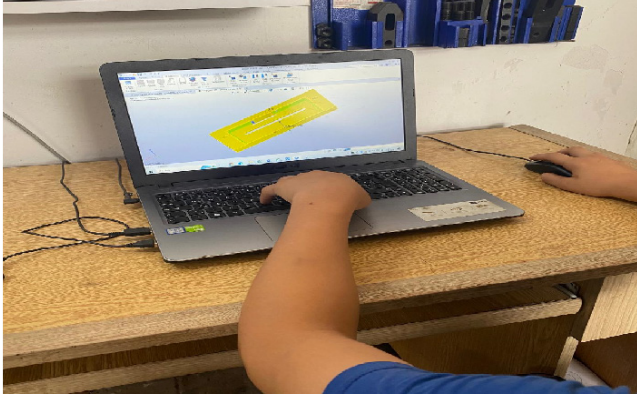
AKB ÇAĞLAYAN often receives drawings in a variety of formats from their clients, so compatibility with different formats is a key factor when choosing CAD software.

"We often get SolidWorks drawings from our customers, and ZW3D can open these drawings and other formats we need without any issues," says Kahraman.

ZW3D can read over 30 types of intermediate and native 2D/3D formats, including SolidWorks, NX and CATIA. This eliminates the need for time-consuming file conversions and facilitates smooth collaboration with upstream partners.



Additionally, ZW3D's Auto-Drafting feature has significantly reduced design time. Traditionally, creating production drawings was a labor-intensive process. This feature allows users to customize templates according to project requirements and automatically generates multiple drawings at once, cutting down both workload and errors.



An engineer at AKB ÇAĞLAYAN used ZW3D for mold design

## Accelerating Programming Through ZW3D CAM's User-Friendly Interface and Powerful Capabilities

As a young company, AKB ÇAĞLAYAN faced the challenge of limited expertise in CAM programming and tight deadlines for project delivery. A CAM solution that is easy to use and efficient is important for them.

"We were new to CAM, but we were able to get up to speed quickly thanks to ZW3D's intuitive interface," shares Kahraman.

ZW3D CAM's user-friendly design and clear workflow make it easy for anyone to learn quickly. Even those with little CAM experience can master the software within an hour and begin working on projects the same day.

The speed and power of ZW3D CAM also significantly reduce programming time." We use ZW3D CAM on a 3X milling machine for roughing and contouring, and we are very impressed with its speed and quality," says Kahraman.

With over 40 machining strategies for 3X milling,

ZW3D CAM is highly adaptable to various projects. The software also automatically generates machining strategies faster than other solutions on the market, and users can easily adjust the toolpath for optimal efficiency.



A 3X milling machine used by AKB ÇAĞLAYAN

## Empowering Turkey's Manufacturing Industry Through Digital Transformation

Since adopting ZW3D, AKB ÇAĞLAYAN has automated routine tasks and streamlined workflows, which led to shorter project completion time and lower operational costs.



In addition to mold designs, AKB ÇAĞLAYAN also completed machine and similar designs specific to customer needs with ZW3D

AKB ÇAĞLAYAN's success reflects ZWSOFT's commitment to driving digital transformation in Turkey's manufacturing industry. By leveraging advanced CAX technologies, companies like AKB ÇAĞLAYAN can accelerate project completion, reduce operating costs, and stay competitive in a fast-moving market. Looking to the future, ZWSOFT will continue to support AKB ÇAĞLAYAN on its path toward sustainable growth.

### 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.

📍 32/F, Pearl River Tower, Guangzhou, China  
☎ +86-20-38289780  
✉ sales@zwssoft.com  
🌐 www.zwssoft.com