Whiston Industries Ltd: The Key to High Quality Surface Finishing and Safer Manufacturing

In 2018, Whiston Industries Ltd invested in Tebis CAD/CAM software for their manufacturing processes. Over the years, the software has played a key role in increasing machining productivity, enabling accurate toolpath simulations, and ensuring machine collision avoidance.

Established in 1963, Whiston Industries Ltd are a world class engineering company, supplying press tooling and metal pressings to the automotive, aerospace, renewable energy and associated markets.

The company is also a family-owned business, now proudly in its third generation and they are supplying the world's leading automotive OEM's and tier one supplier with press tooling.

Whiston Industries Ltd made a strategic investment in Tebis CAD/CAM software to improve and optimise their manufacturing processes. The implementation of Tebis software marked a turning point for the company, introducing a new level of safety, consistency, and efficiency in machining processes. The software's powerful automation and simulation tools have enabled the company to reduce manual errors and optimise the machine usage. Today, Tebis plays a central role in Whiston Industries'.

Paul Scally, Site Manager from Tebis UK explains that Tebis is more than just a CAD/CAM and MES software company, but also a process solutions provider: "Our software is designed not only to deliver powerful CAD/CAM capabilities, but we offer the consultancy and implementation services, as well as training to optimise our customer's environment."

Andrew Whiston, Managing Director from Whiston Industries Ltd explains why they purchased Tebis CAD/CAM software: "To stay ahead of the competition, we have focused on strategic investments and operational efficiency. As part of this approach, we purchased two Parpas machines and five Tebis' CAD/CAM software licences. This investment has significantly improved our machining accuracy and improved production times. As a result, we are able to deliver high quality components to our customers."

Andrew also explains that CAD/CAM software has proven to be the optimal solution for maximising the performance potential of their machines. "It allows us to fully utilise our machine capacity, improve overall efficiency, and improve production time," he says. "The precision offered by Tebis CAD/CAM technology ensures consistently high accuracy, which is critical for meeting our strict quality standards. "

One of the key advantages for Whiston Industries Ltd is the automation of their CAD/CAM workflows, enabling smart and intelligent manufacturing. Andrew continues to explain "We can build the whole manufacturing environment into Tebis. The software also creates the whole digital twin and not just the machine, but the full manufacturing environment."

The Tebis software is extremely reliable, eliminating concerns about unexpected machine movements. Knowing that the software anticipates and avoids potential collisions means Whiston can run operations with complete confidence. For example, engineers are able to run both the upper die and lower die machine beds at the same time, and run programs continuously—day and night. This level of automation has significantly increased their productivity and ensures the workshop is operating at the full capacity.

Paul also adds: “Whiston Industries also uses a specialised laser package. Our software enables the creation of the toolpaths that allow manipulating head positions to avoid collisions and optimise machining vectors and eliminating unnecessary head movements. Additionally, Tebis can adapt these toolpaths with path correction in areas that we need to make the changes contour of the part without having to change the data. With the optimised machining process, we can then put the best practice into the software to achieve the best machining results. “

Andrew concludes: “Overall, the adoption of Tebis CAD/CAM has led to measurable improvements in productivity, cost savings, product quality and positioning the business to better meet customer demands and stay competitive in the market.”