

Tebis: Process Solutions in Manufacturing

Whilst many recognise Tebis for CAD/CAM and MES software, Tebis also offers intelligent manufacturing through advanced smart automation to optimise the entire production workflow.

The virtual machine technology introduces a new level of safety and precision dramatically reducing the risk of collisions and safer, more confident machining.

Fully integrated and built to meet modern manufacturing demands, Tebis offers functionality like milling, drilling, trimming, turning and the combination of these through to the special packages such as 5-axis trimming, laser cutting, laser hardening, electrodes, measurement on the machine and wire erosion, Tebis delivers special packages that meet the full range of your manufacturing needs.

In addition to advanced CAM capabilities, Tebis also offers CAD for CAM with both associative parametric surface modelling for the manufacturing needs. As well as reverse engineering functionality which allows manufacturers to generate a CAD surface model that precisely represents a scanned object.

Paul Scally, Site Manager from Tebis UK explains: "Tebis is not just CAD/CAM provider, but we are also process solutions provider. Our CAD/CAM/MES software is just one part of the entire process which we can offer. We can also offer services like consultancy and the implementation services to optimise the manufacturing processes from start to finish."

With experience from hundreds of successful projects worldwide, our consultancy team collaborates with customers to define strategic goals and execute them effectively. The Tebis team conducts a detailed analysis of manufacturing processes to identify inefficiencies. It also focuses on process optimisation, improving efficiency, machine productivity, project management structures, strategic orientation, personnel management and future concepts. The first step in consulting is to understand the company's requirements.

The second step is the implementation. Tebis establish trust and then moderate the changes and implement the agreed measures. The company see their role as one of guiding the company. Changes can only work if they are implemented with and not against the employees. They therefore get the employees on board right from the start and ensure that they are active participants in developing and implementing our recommendations.

Paul continues to explain: "From a manufacturing perspective, one of the most crucial factors is consistency and process optimisation. When processes are consistent, it ensures that everyone is following the same procedures, which leads to greater efficiency and

quality control. This is where our automation with the intelligent manufacturing comes into play, and we can build all the best customers knowledge into the Tebis' libraries.

Whether it's your speeds, feeds, tools, clamping devices, your machine technology, and the way your work is all saved in the software – all this knowledge is captured and saved within the Tebis software.”

Paul concludes with his final statement that Tebis also offers MES software: “Tebis ProLeiS is an MES (manufacturing execution system) software system that digitally models the entire order flow of a manufacturing company, including all business, technical and organisational processes to help the business to control all the workshop operations.

The manufacturing process involves many specialists, machines and suppliers who need to collaborate in a coordinated manner in order to stay within budget, while also ensuring quality and on-time delivery. MES supports this coordination through detailed planning and real-time insights into the current workload, including employee schedules, shift patterns, skill sets, and working hours.

It optimises machine utilisation and enables precise preplanning. When a new job is introduced, Tebis ProLeiS helps assess whether production targets and milestone deadlines are achievable, ensuring operations run smoothly from start to finish.”

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