HOLZBAU GRÖBER

Quality with just *one* click

Digital recording and evaluation of production data

With PAM, a platform for assistant systems and machine data, Türmerleim combines its existing software solutions for glued timber production in one place, while bringing them to a new level. PAM links data that previously collected dust in folders into valuable, easily accessible, and well-prepared information that supports production employees, work planners, production managers, quality control experts, and managing directors alike. The people in charge at Holzbau Gröber also appreciate these numerous advantages.

Günther Jauk Günther Jauk, Türmerleim (1)

Holzbau Gröber is one of Germany's most experienced engineered timber construction companies. Founded 70 years ago as a sawmill, the company manufactures special glulam components for commercial buildings for decades. Holzbau Gröber's annual output is around 10,000 m³ a year. The maximum production length of its spruce glue-laminated timber beams is 45 meters, and the maximum beam width is 44 cm.

Optimal use of data

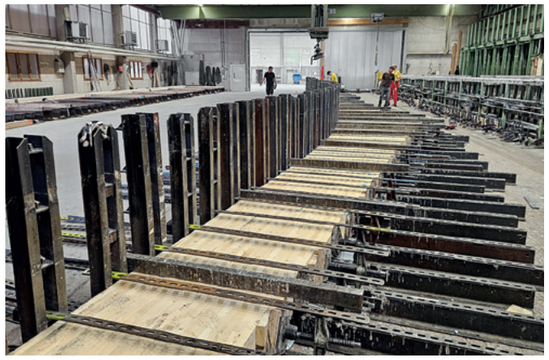
Raphael Schulz has recently become quality control manager at Gröber, while his colleague Tomas Metzger oversees production. With this generational change, digitalization also came into focus, which ultimately led to the introduction of a customized PAM system from Türmerleim. PAM stands for "platform for assistance systems and machine data" and enables Gröber to optimally use and manage data, while monitoring all key production parameters in real time.

"We wanted to move away from home-made Excel solutions and paper to a consistent and convenient system," Schulz tells us. Gröber has a long-standing partnership with its adhesive supplier Türmerleim, BASF's sales partner, that extends far beyond the actual product, i.e. the Kauramin 2C MUF adhesive. "We supply not only the adhesive, but also the suitable, separate application system and numerous digital services, which we keep expanding based on suggestions from and in close collaboration with our customers," Türmerleim application engineer Matthias Weber explains, adding that this ever-growing collection of digital solutions ultimately resulted in the overarching PAM – a web-based platform with various assistance systems that can be individually adapted to each customer and user.

Quick overview – detailed insights

The dashboard gives PAM users a quick and easy overview of key production parameters. "I see all the information relevant to me at a glance and can immediately assess whether everything is alright or not," Schulz tells us. In fact, he configured his own dashboard using widgets. The individual widgets provide information on things like the pressing process, adhesive consumption, cubic meters produced, completed orders, and a data overview from the climate app.

Further details on temperature and humidity can be found in the climate app. Here, Türmerleim not only supplied the software but also the necessary hardware including several sensors for the continuous monitoring of all relevant production areas. "We receive all climate data automatically and in real time, which allows us to intervene quickly if something goes wrong and also saves us a lot of documentation work," Schulz says happily. Metzger adds that the climate app accurately archives all collected data and automatically provides information for filing every week. "This saves us and our monitoring and certification body, MPA, a lot of work, because everything is visible at a glance and you no longer need to trawl through files and folders," he explains.



Holzbau Gröber, one of the most experienced glued timber producers for engineered timber construction in Germany, has been working successfully with Türmerleim for decades

PAM, the platform for assistant systems and machine data, provides users with a simple overview of key production parameters with just one click

With the help of Türmerleim's PAM, Holzbau Gröber now has even better control over the glulam production process

For Holzbau Gröber's Raphael Schulz, PAM makes work much easier and offers a wealth of valuable information

Optimized quality control

Another useful application that Türmerleim successfully integrated into PAM is the Quality Assistant, which has made it possible for the first time to carry out the entire on-site production control according to the manufacturer's standard in one integrated system. "Like many of our developments, the Quality Assistant, too, was developed in close collaboration with our customers," Willi Baun, who is responsible for machine technology at Türmerleim with a focus on digital services, tells us.

Baun particularly emphasizes the reduction of the workload: "All the employee has to do is to type in the test specimen number. Everything else – such as entering the specimen's dimensions, the component strength, or creating the test – is handled by the assistant." The results are displayed graphically and in the form of a table.

All orders at a glance

To make it as easy as possible to view production details, Türmerleim developed the Job Viewer. This feature has proven its worth in the Glue Assistant over the years and has been significantly improved in PAM. "Whether it's a specific construction project, a shift or an order – in the Job Viewer, we can access the right components with just a few clicks and quickly get an overview. Just a few more clicks and we get a detailed insight down to the production parameters of each individual lamella," Schulz explains, who particularly appreciates the fact that all collected parameters are linked: "When I select a specific order in the Job Viewer, the order data are already linked to the corresponding quality and climate data, which provides us with valuable information without us having to search for it."

The Statistics App provides even deeper insights into production processes by enabling customizable analyses of all data in PAM. "The Statistics App gives us even more control over our production. It shows us where there is potential for optimization, and it can also provide us with important information for future investment decisions," Schulz says, summing up the advantages of linked, well-managed data.

According to Weber, PAM is a sensible tool for companies of all sizes, "from the small carpenter who simply uses the Climate App to the industrial-scale company that fully exploits the platform's potential". For this purpose, Türmerleim offers on a pay-per-use model that bills not at a fixed rate but based on the cubic meters produced. "This way, we only pay for the services we actually use and avoid unnecessary costs. The bottom line is that PAM offers us significant added value in many areas at a fair price," Schulz says in conclusion. //

Türmerleim employees Matthias Weber (left) and Willi Baun (3rd from left) are pleased with the successful collaboration with Holzbau Gröber, here represented by Tomas Metzger (2nd from left) and Raphael Schulz (right)