Progress Group, 39042 Brixen, Italy

Lammers Beton revolutionizes its precast concrete production

Lammers Beton has emerged as an innovator in the field of precast concrete production by embracing machine automation and software solutions. As a company founded in 1987, Lammers Beton has grown to include three production locations in Weert / Netherlands, employing over 235 professionals. It is specialized in complex and architecturally demanding concrete elements such as facades, balconies, galleries and structural elements. Lammers Beton primarily serves contractors who rely on their expertise for high-quality precast concrete products.

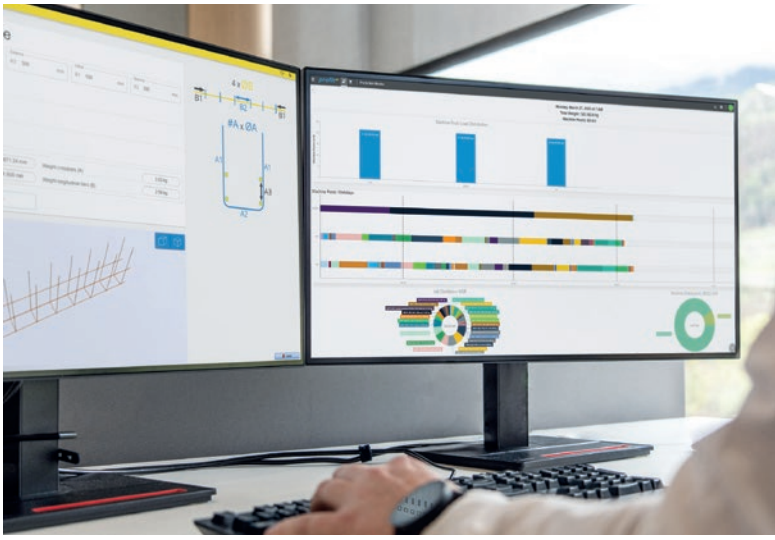
Innovative reinforcement technology

Lammers Beton's adoption of automation is exemplified by their acquisition and integration of a Progress Group M-System PowerMesh welding plant with bending system. The dream to own such a high-performance machinery came to fruition, leading to substantial improvements in production capability. This mesh welding plant has significantly streamlined operations by improving the production timeline and reducing storage needs.

Investment in software solutions

A pivotal moment for Lammers Beton was the integration of the profit software from Progress Group. The software has primarily been utilized for the integrated rebar shop and includes capabilities like production monitoring and workload profiling, significantly enhancing the planning and production process. Initially underestimated, the software quickly proved invaluable in generating accurate mesh data and improving production efficiency. Hein Moors, 3D Process Engineer at Lammers Beton, reflects on the initial skepticism and subsequent realization, saying, "In the beginning, I thought we wouldn't use it much. The software's capability became evident as we started using it extensively to streamline our processes."

The M-System PowerMesh welding plant is producing a high output of customized mesh with flexible spacing and bendings, increasing both speed and volume capacity.



Machine utilization is analyzed in real time via the profit system to schedule processed data optimally and send automatically to machines.

The integrated beam bending system guarantees an efficient production of reinforcement cages.

Efficiency gains

The investment in both automation and software has resulted in significant efficiency gains for Lammers Beton. By producing on-demand meshes and bent products, the company has optimized storage requirements and minimized waste, while enhancing the overall quality of their precast elements. According to Hein Moors, "We can produce mesh just-in-time when we need it. This allows us to improve efficiency in the factory and elevate product quality."

Positive collaboration

The collaboration with machine and software providers has been a positive experience for Lammers Beton. Moors praised the quick response times and expertise of the Progress Group's service teams, stating, "The team's quick responses and deep understanding were a pleasant surprise. It's crucial to have partners who genuinely know what reinforcement and machine operations entail."

BIMpro implementation

In their pursuit of continuous improvement, Lammers Beton embarked on the integration of BIMpro, a software solution designed to further advance their 3D reinforcement modeling capabilities in Autodesk Revit. Initially, the company relied on traditional 2D drawings, which occasionally fell short in capturing the full complexity of modern construction demands. BIMpro provides an intelligent and efficient alternative, enabling engineers to design, visualize, and plan reinforcement with a level of precision and detail previously unattainable.

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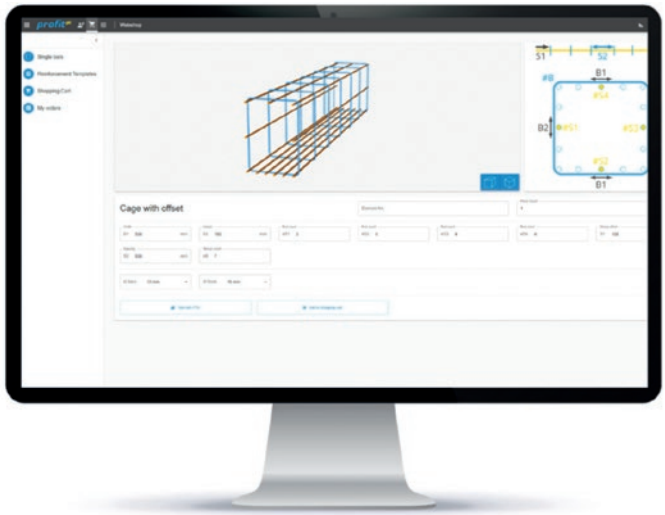


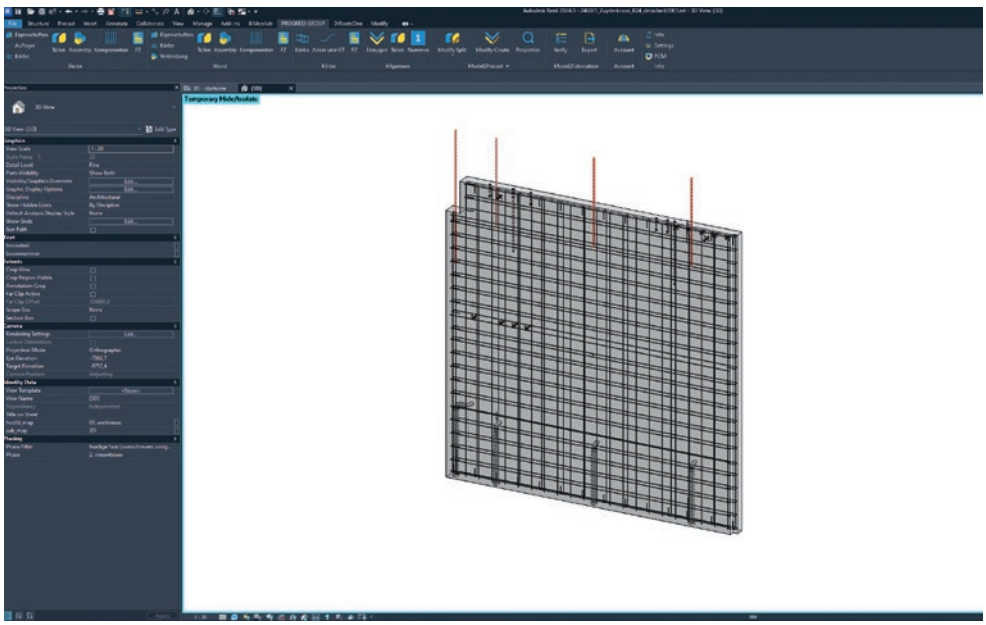
What you design is what you get. That's why a design package is integrated in profit to easily and quickly create meshes and cages with predefined templates.

Moors emphasized the software's potential: "We are fully convinced that BIMpro will enhance our design accuracy and efficiency. It allows us to move beyond basic modeling, integrating reinforcement details directly into our Revit designs to better predict clashes and improve the producibility of cages."

considering digital transformation and automation. Through their commitment to technology, Lammers Beton is poised to continue delivering exceptional products and maintaining their leadership in the market. Moors concludes: "We didn't just buy a machine, we embarked on a partnership to ensure our success." ■

Conclusion

Lammers Beton's strategic investments in machine automation and software underline the transformative potential of technology in industrial operations. The company has not only enhanced efficiency but also set a benchmark for innovation in precast concrete production. Their experiences serve as a compelling case for other companies in the industry



BIMpro, the plug-in for Autodesk Revit, takes Lammers Beton to the next level in 3D reinforcement modeling for their precast concrete production.

High-quality precast concrete elements from Lammers Beton in use at the De Caai project in Eindhoven – combining modern design and efficient construction.

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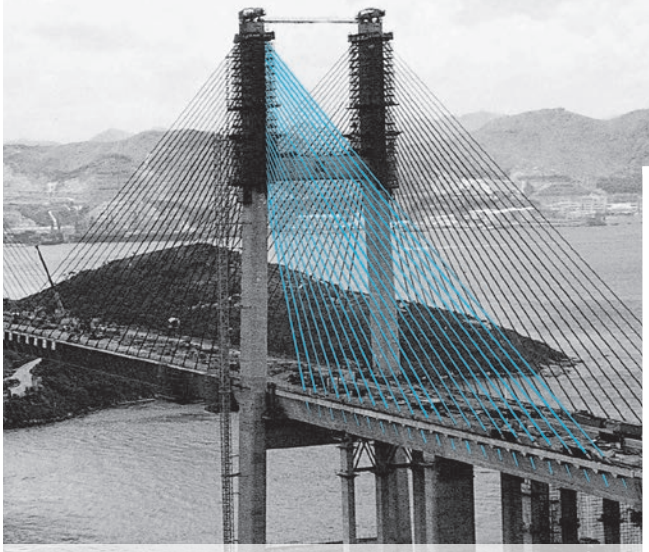

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