



AAC INDUSTRY

Software solutions

Automation of reinforcement production

PROGRESS **GROUP**

The company

For over 60 years the PROGRESS GROUP has been developing machinery and services for the precast concrete and rebar industry. We work closely with our customers to develop customized solutions. Through ongoing innovation and know-how, we have become one of the world's leading full-service providers for precast concrete plants, rebar shops, mesh and AAC manufacturers.



Innovative for
over 60 years



Flexible solutions
from a single source



Globally
successful



Software solutions

We are your specialized digitalization partner when it comes to delivering solutions for your future and supporting your journey towards a digital factory. Whether mobile, IoT, digital twin, robotics, cloud or AI, our versatile and business proven solutions support your BIM process.

Our centralized digital platform ensures easy access to data from anywhere, driving collaboration and productivity. Embrace a more integrated workflow and get ready for increased success with our guidance.



Professional consulting



Integrated software solutions

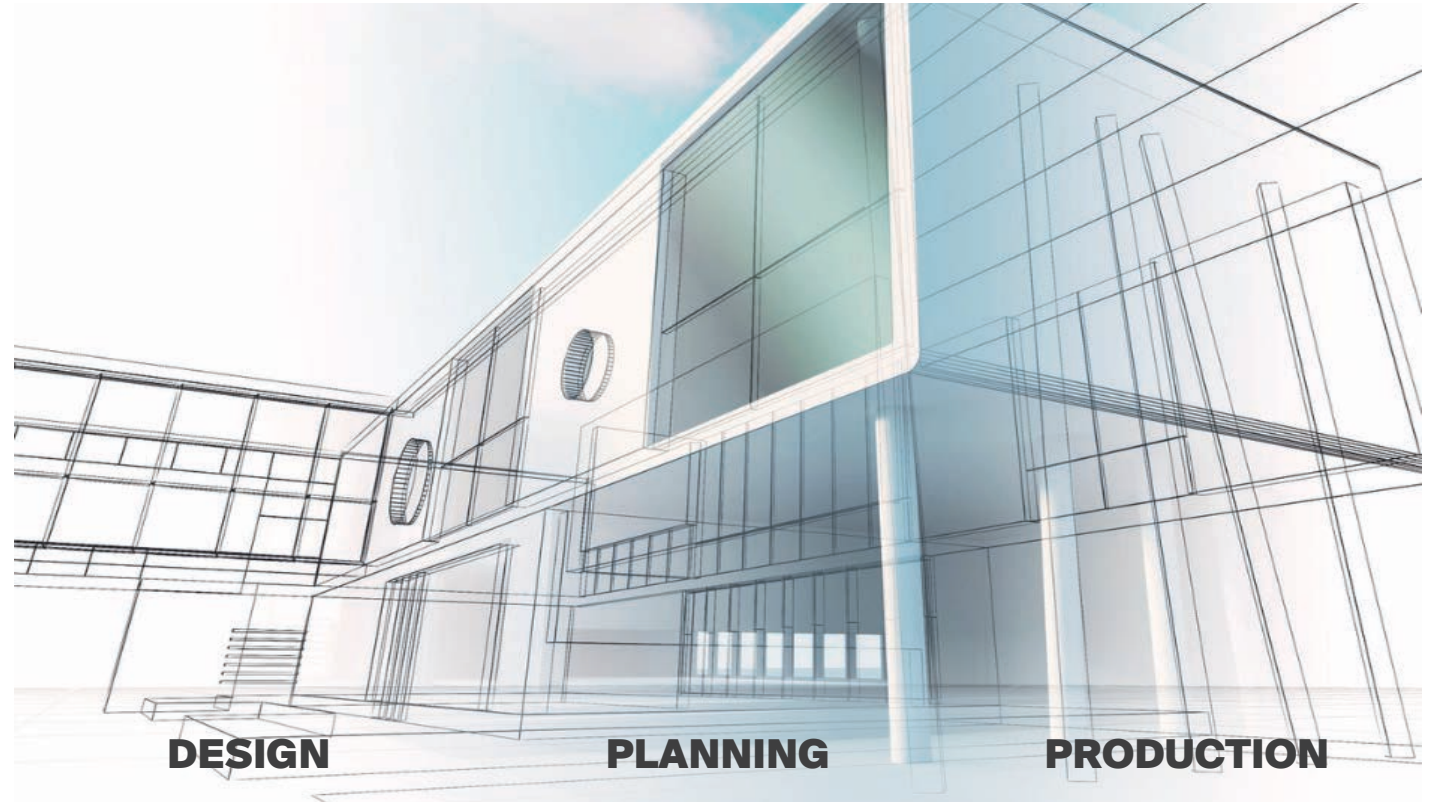


Integrating the whole workflow

We take your AAC production to the next level. As your digitalization partner, we offer tools that work from design to construction. With our software solutions it is possible to display the complete project life cycle in the always up-to-date 5D planning. This allows to keep costs and time under control at all times.

Streamlined operations for enhanced efficiency

Our solutions bring all your business and production processes together. With three strong pillars - BIM, ERP, and MES - our products integrate perfectly to simplify your work and boost efficiency.



Your Benefits



CAD, ERP, MES -
Solutions from a
single source

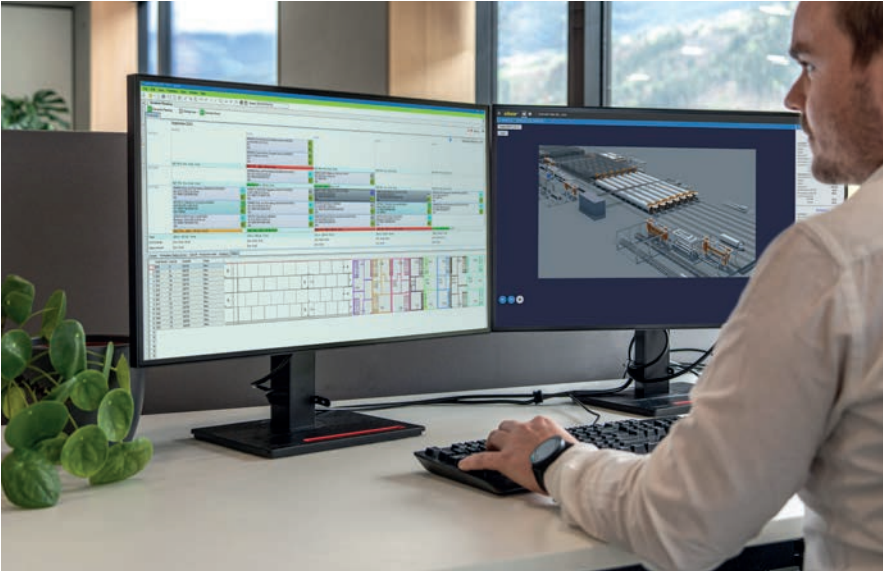


Integrated workflows
ensuring cost and
time transparency



Software solutions
for maximum
efficiency

Our industry proven solutions



ERP-System

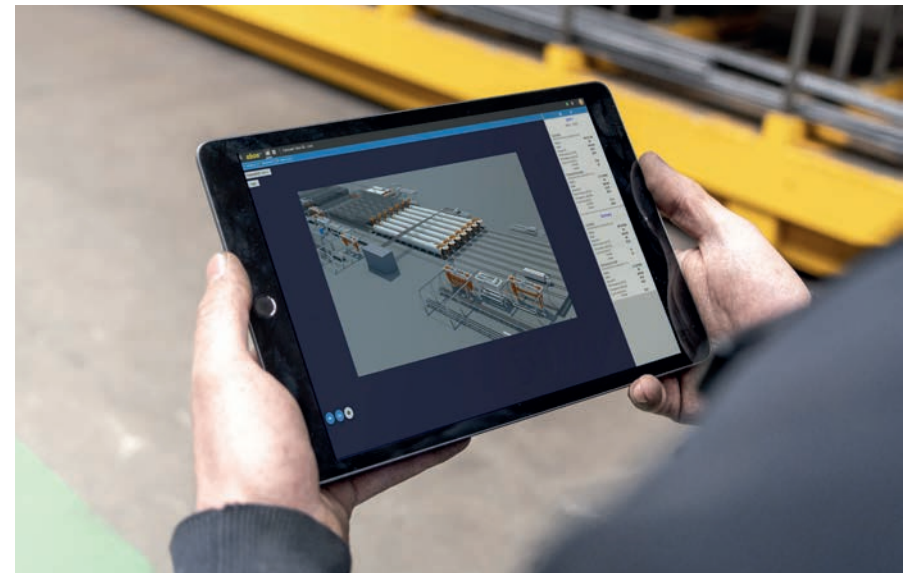
e^{rp}bos® is the tool for planning and controlling all business and production processes. All industry-specific interfaces are guaranteed as every machine and existing software can be connected. Benefit from a central planning functionality and a perfect status overview.

Imported IFC data can be enriched to achieve the „as-built“ level of detail that brings the digital twin to life. This enables cost-efficient planning to ensure just-in-time construction.

MES-System

With **ebos**®, we have developed a software product that combines a wide range of features with the simplest user guidance and thus becomes a significant, innovative tool for AAC manufacturing facilities. Complex interrelationships are clearly visualized and can be seen at a glance.

An innovative 3D visualization of the plant makes it even easier to keep an eye on production. Open cloud technology allows you to keep an overview from anywhere. This opens up whole new worlds in production control and analysis.



Automation of reinforcement production

For the production of reinforcement in AAC elements such as floors, walls and lintels, there are different levels of automation for the machines and systems.

As PROGRESS GROUP we offer the whole range of solutions, from the basic model with straightening of the loose bars up to the fully automated version for the production of reinforcement cages including insertion and pre-buffering.



Professional consulting



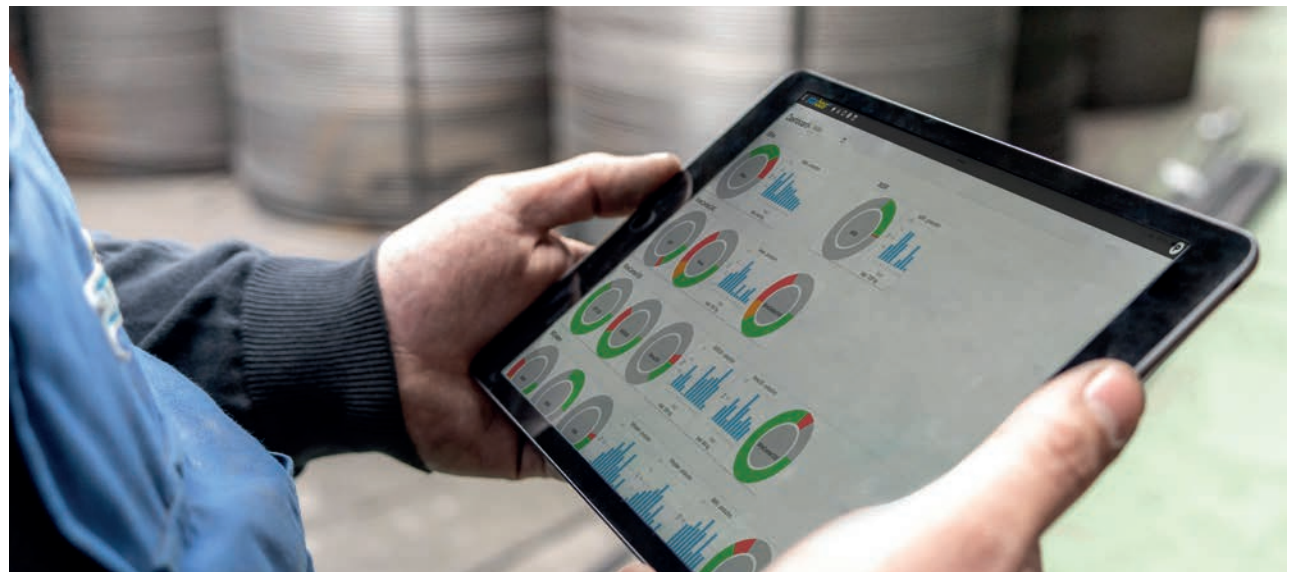
High automation



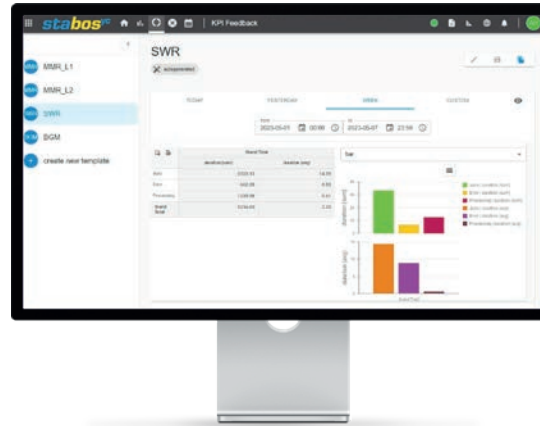
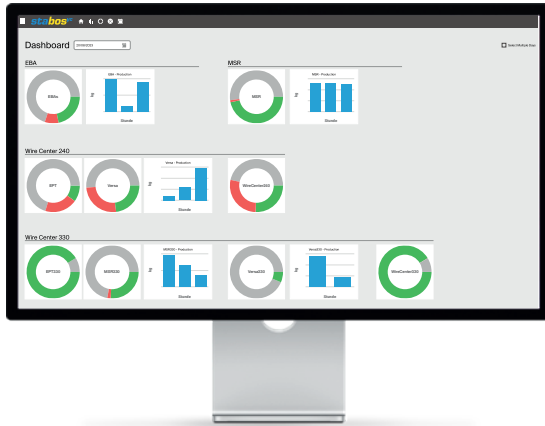
Complete logistics systems



Integrated software solutions



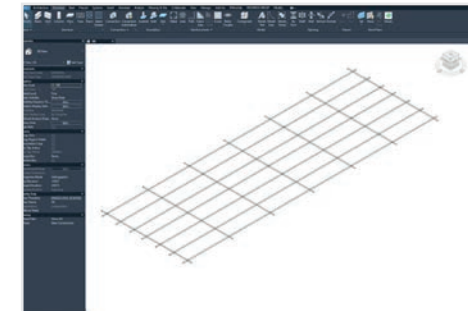
Machine analysis



stabos is a software for collecting and evaluating production data. The centrally collected data can be used to increase the productivity of the system and the quality of the products.

Our customized software solutions for autoclaved aerated concrete manufacturers optimise production processes and ensure optimum utilization, control and monitoring of the machines.

Design



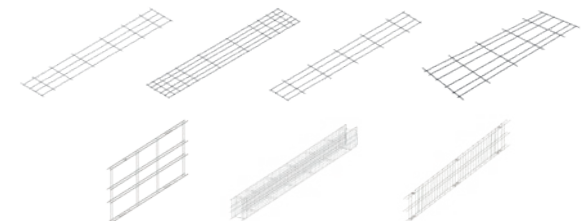
Reinforcement data



PTS simulation



Info messages



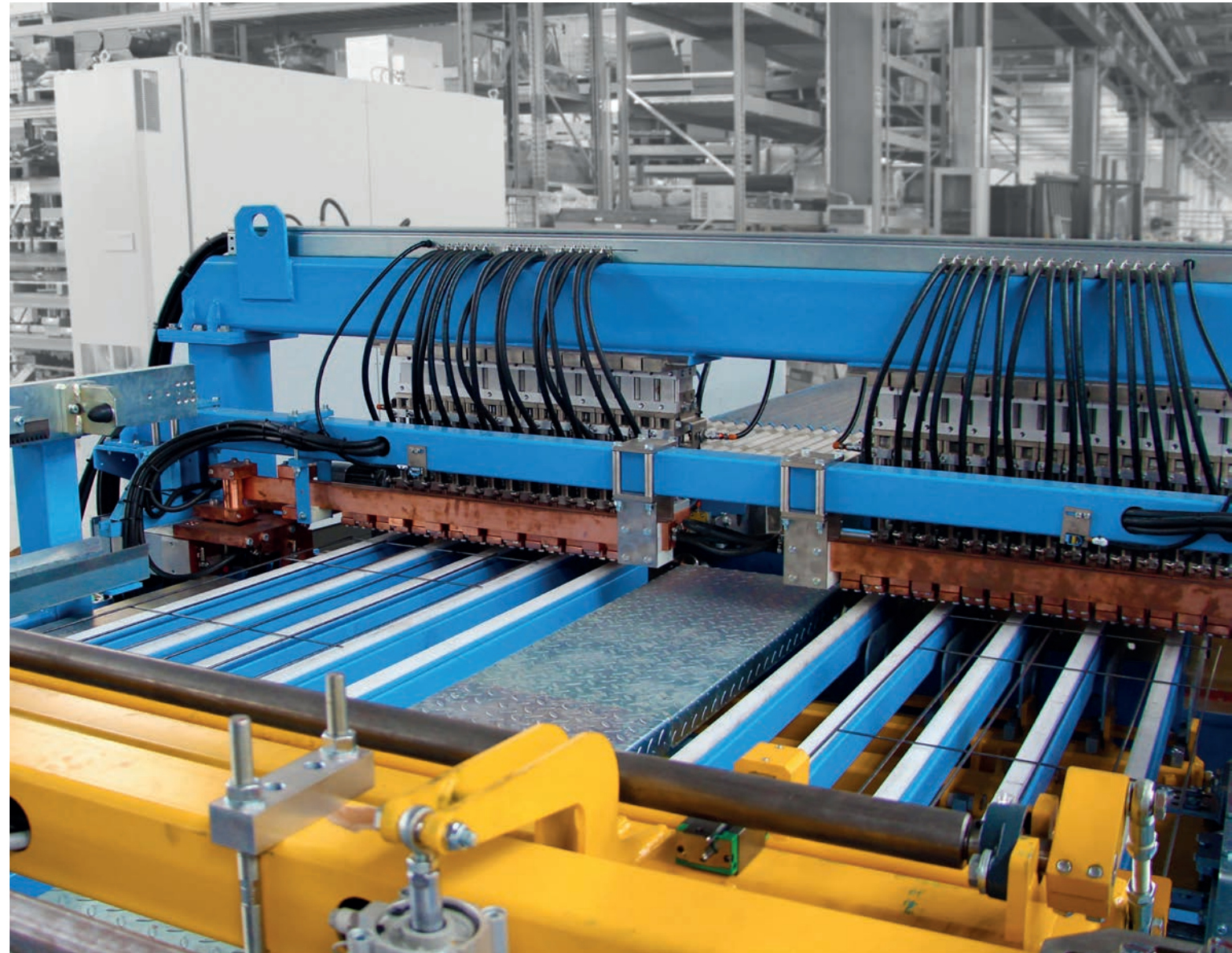
Straightening machines and mesh welding plants

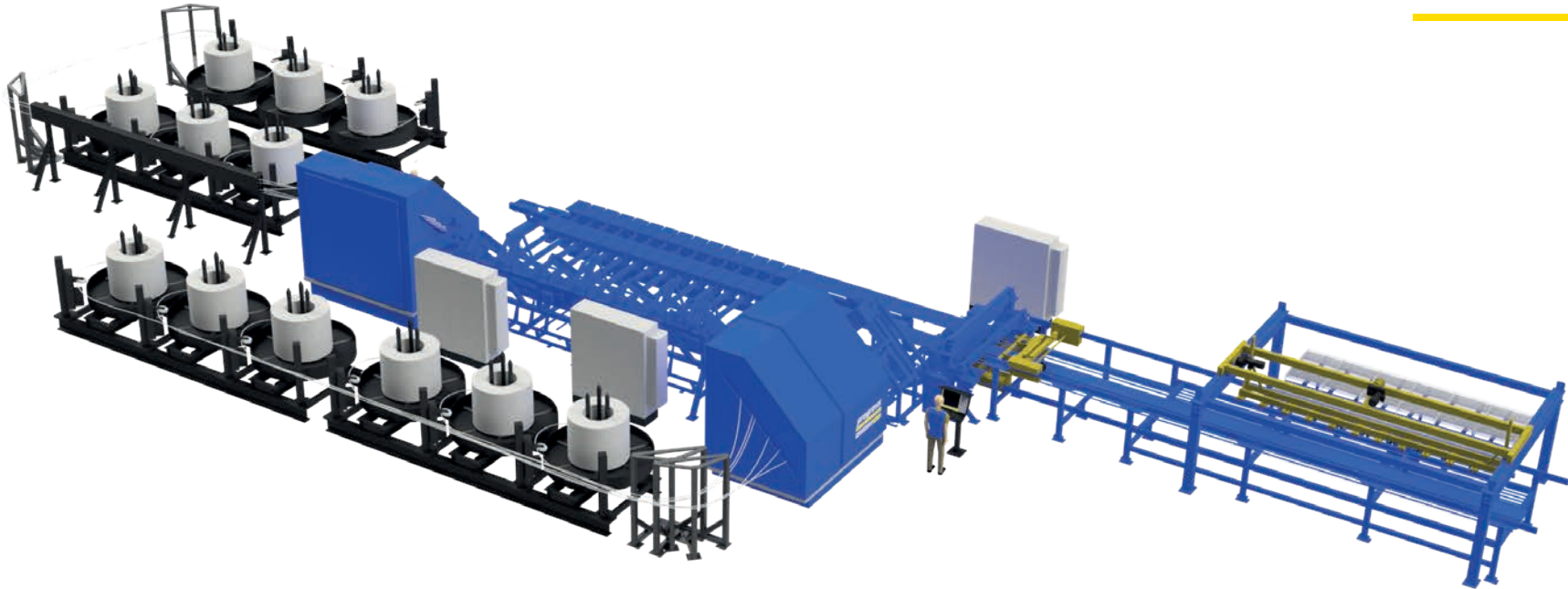
As basic equipment for reinforcement production, straightening machines ensure that the transverse and longitudinal bars are provided as required.

The fully automated mesh welding plant stands out for its precision, flexibility and just-in-time production of bespoke mesh from coil.



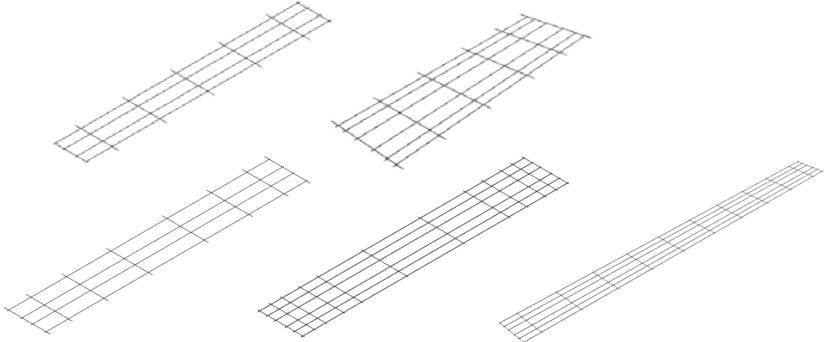
Clip system for automatic insertion of the loose bars





- Production of mesh or mesh stacks on one or two lines
- Processing of reinforcing steel from coil from 3.5 mm to 10 mm
- Adaptation of the welding heads according to performance requirements
- Automatic diameter change

Product samples



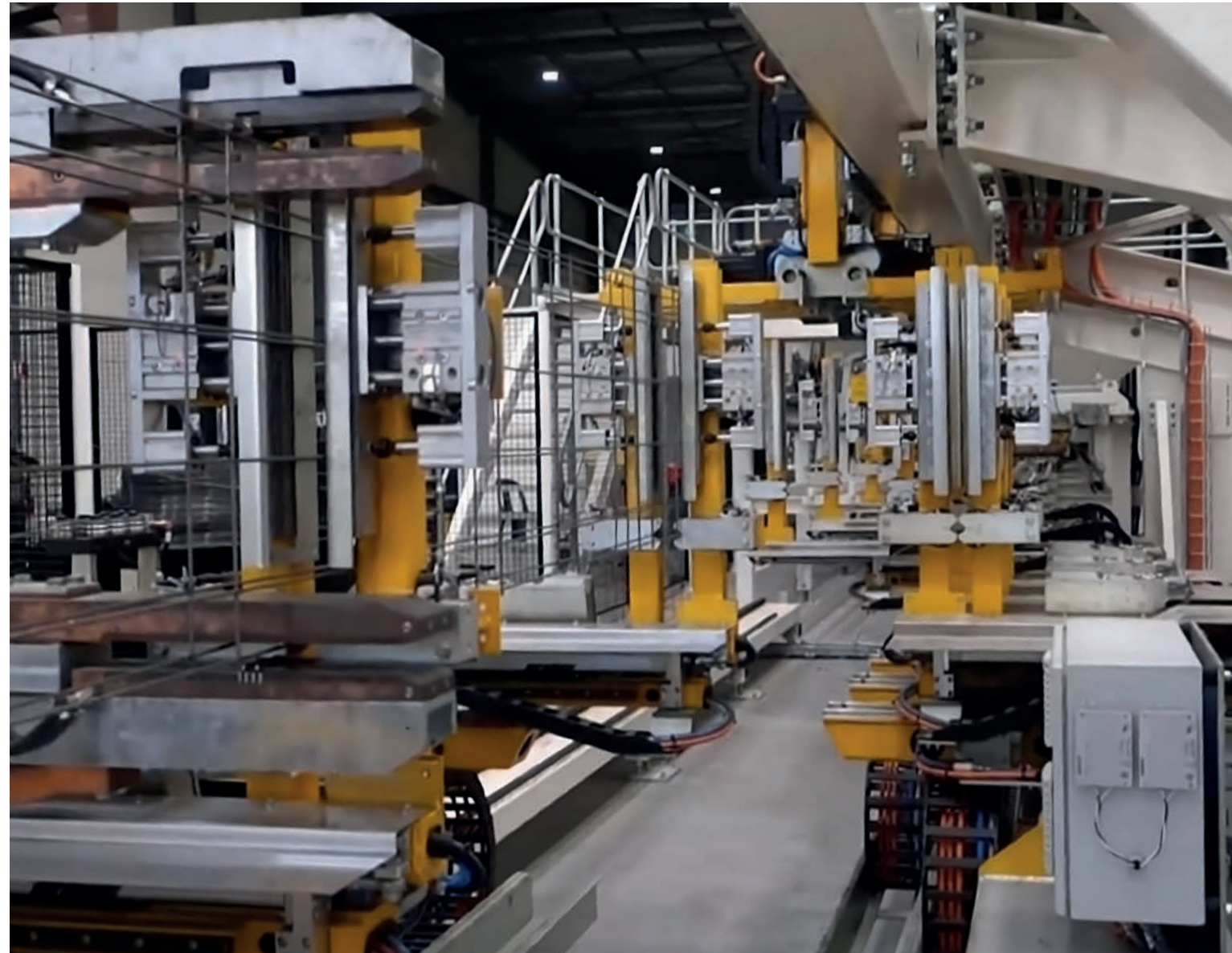
Mesh welding plant with cage production

Fully automated solution for the production of mesh with ladder welding machine, welding of the cages and transport rack for inserting the cages.

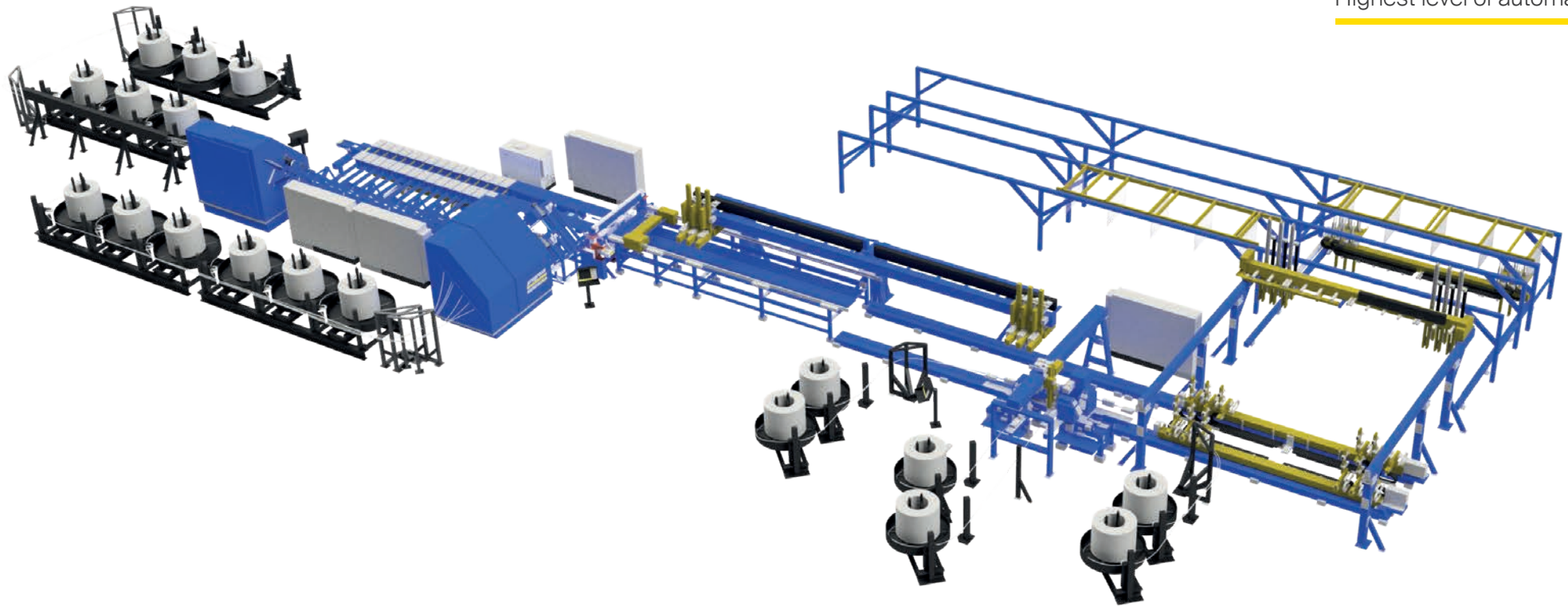
The cages mainly have a fixed longitudinal wire grid.



Flexible adjustment of the production output

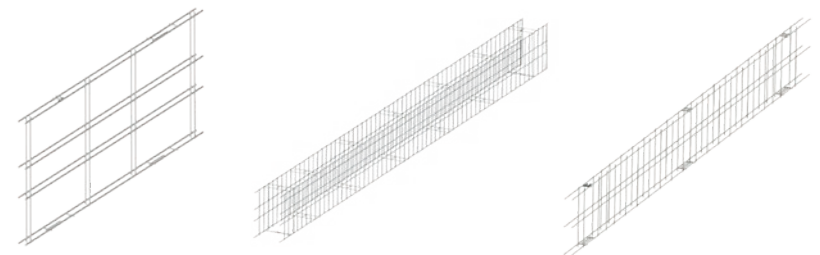


Highest level of automation



- Production on two lines for maximum output
- Transport rack for inserting the cages
- Sophisticated logistics solutions

Product samples



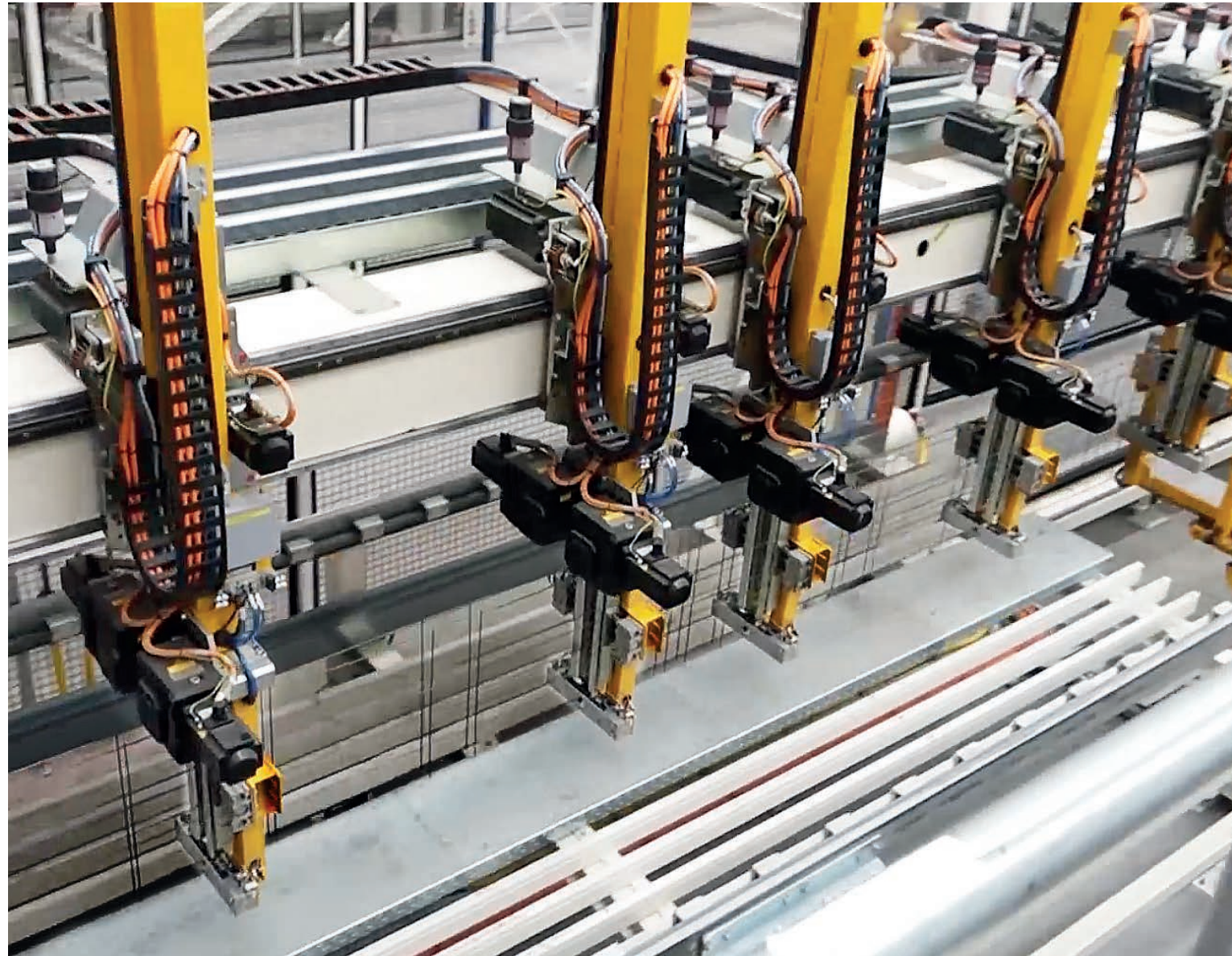
Logistics and transport

Special robot solutions are used for the onward transport of the welded reinforcement cages.

By using this fully automated solution, the degree of automation of the system can be further increased.



Gridless production of bespoke mesh and reinforcement cages



Insertion and pre-buffering of the cages

The finished reinforcement cages are inserted into the transport frame and pre-buffered.

Subsequently, the production of the autoclaved aerated concrete elements continues with the casting process.



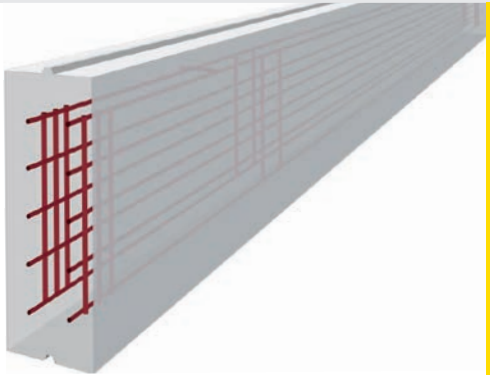
Wax bath for cleaning the needles



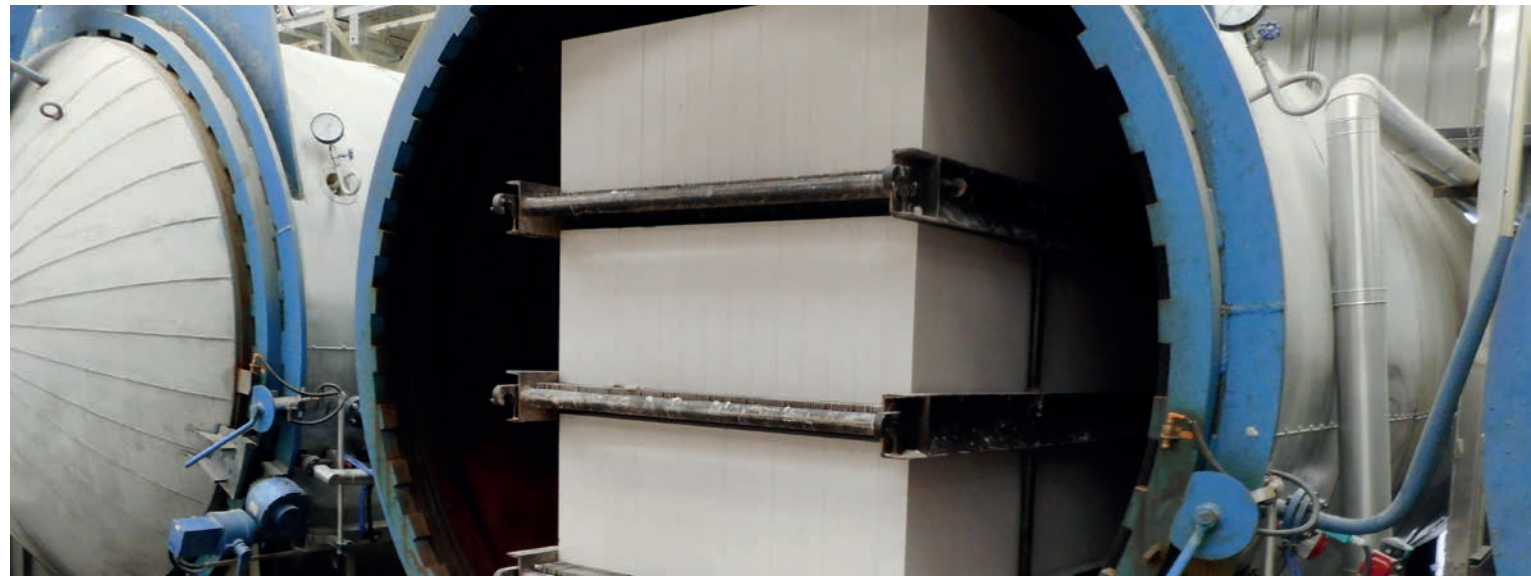
Production of AAC elements

The autoclaved aerated concrete elements are cut to size and profiled after casting.

In the autoclave process, the elements are treated and cured in a positive pressure area before they are separated and packaged for further use on the construction site.



Supply of reinforcement
as required



Recent projects

”

With Progress Group we have found the balance between longterm reliability, many years of expertise and flexibility in the way of working.

Service Director



”

Progress Group fulfilled our expectations with the quality, support and mentality they deliver. Special needs were handled and the customization of the solutions (machines and software) was done on a high level.

Managing Director



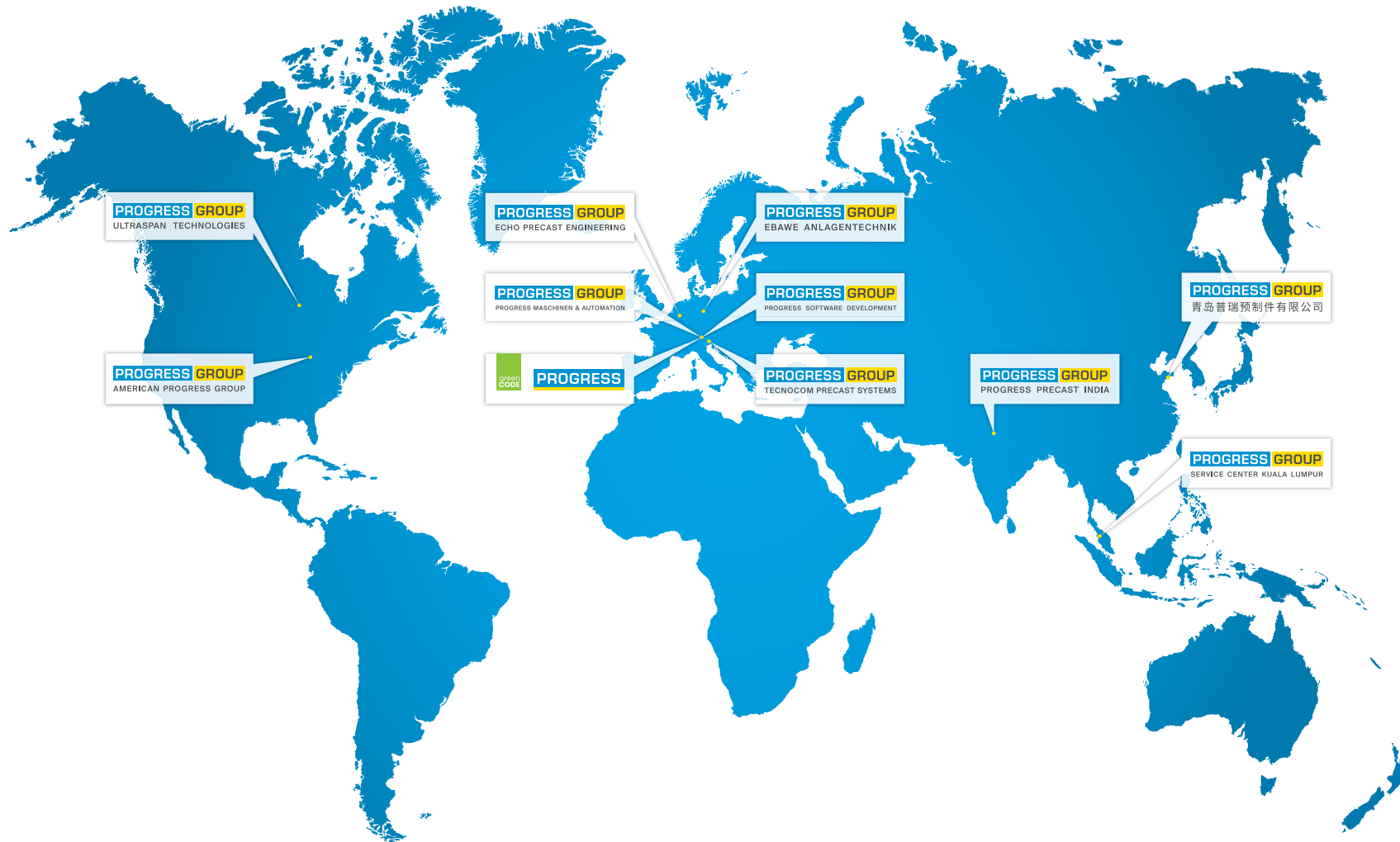
”

We felt Progress Group had expertise in mesh handling that we had not seen with any other supplier and this is what we needed for our new plant.

Reliability Manager



PROGRESS GROUP



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