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# KIRCHDORFER NEWS



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## **THE MABA REVOLUTION IN REINFORCEMENT TECHNOLOGY**

World Premiere: The MABA Korbwand heralds a new industrial era  
in the fully automated production of semi-finished components.

MABA-KORBWAND® – A REVOLUTION IN MANUFACTURING TECHNOLOGY

# WORLD PREMIERE IN HIGH-TECH MANUFACTURING



The new MABA Korbwand® – ultralight, customised and revolutionary with fully-automated reinforcement manufacturing technology

People often like to call out “Revolutions” – especially when it comes to selling new products. Although new innovative products can be said to be more or less daily business at MABA, the first fully automated manufacturing system in the world for producing reinforcement cages for semi-finished components is absolutely not a daily occurrence and is “truly” revolutionary.

The production site operated by MABA in Gerasdorf north of Vienna, Austria, has been well-known for many years in the industry as a model high-tech facility for customised semi-finished components – at least ever since they began producing Katzenberger element floors, which have in the meantime become a legend in themselves, in their halls in Gerasdorf. The species of welding robots, for example, was discovered there a long time ago. Yet, as is also well-known, advances in technology are being made continually, mostly without much fuss, but sometimes with great leaps as well!

MABA has now succeeded in establishing another milestone – the world’s first completely automated cage welding machine – in optimising manufacturing technology in development cooperation

with “Rapperstorfer Automation”, a start-up company from Upper Austria. Bernhard Rabenreither, managing director at MABA, is enthusiastic about its new possibilities, “changing over to the new system has brought enormous flexibility into our circulation technology.” Although this may not sound too revolutionary, it is in reality a major step forward in development. Cages manufactured in this way are only the visible “tip of the iceberg” concealing a sophisticated logistics system meeting all needs as regards: saving on storage space, just-in-time automation, fail-safe operations and its integration into the overall IT process management system.

## **MABA demonstrates the available opportunities with the new “Korbwand”**

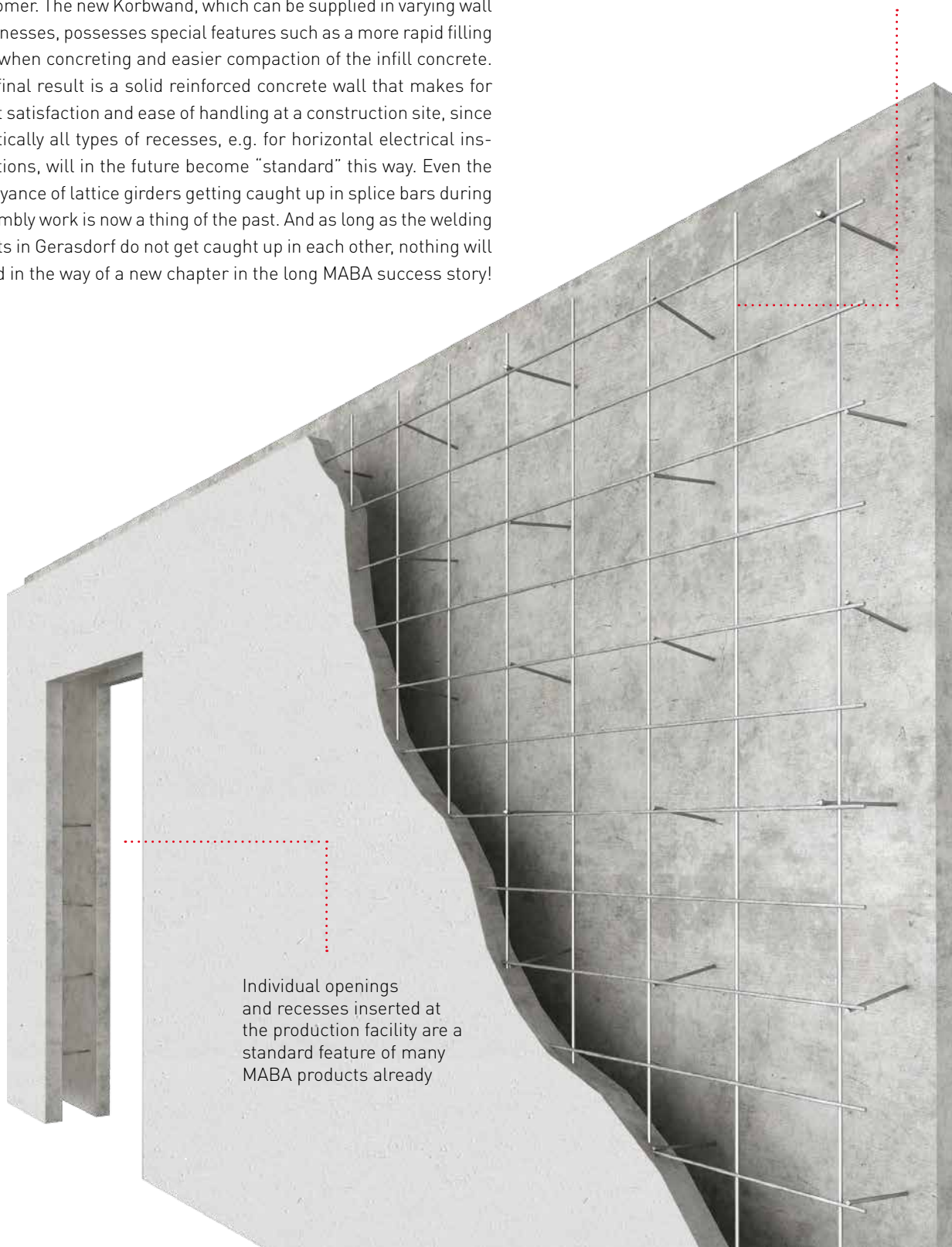
MABA is in their right element when facing the challenges of designing clever system components. The Korbwand – representing the first application of the new manufacturing technology – has now joined their family of element floors and double walls. This slender, clever reinforced concrete semi-finished component can be manufactured with a reinforcement cage for any geometrical wall shape desired. The reinforcement cage, in which bar-shaped

spacers ensure that both shells are maintained at a precise distance from each other, is calculated and produced fully automatically. Contours, recesses and inserted components can be handled both individually and automatically by the production line. The new manufacturing process also makes substantial savings possible with plastic parts and reinforcing steel – quite a considerable cost factor for both manufacturer and customer alike!

#### **Intelligent system means good cost-effectiveness**

Optimising the manufacturing process ultimately benefits the customer. The new Korbwand, which can be supplied in varying wall thicknesses, possesses special features such as a more rapid filling rate when concreting and easier compaction of the infill concrete. The final result is a solid reinforced concrete wall that makes for great satisfaction and ease of handling at a construction site, since practically all types of recesses, e.g. for horizontal electrical installations, will in the future become "standard" this way. Even the annoyance of lattice girders getting caught up in splice bars during assembly work is now a thing of the past. And as long as the welding robots in Gerasdorf do not get caught up in each other, nothing will stand in the way of a new chapter in the long MABA success story!

With their efficient use of materials, these fully-automatically welded reinforcement cages open up totally new possibilities for customisation with semi-finished products – even with a lot size of one piece



Individual openings and recesses inserted at the production facility are a standard feature of many MABA products already





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