

Project Spotlight



FIEGE
Apfelstätt, DE

AutoStore™ –
Floor panel for AutoStore™ use by sports retailers

Twintec GmbH carried out the flooring work with the highest evenness requirements for the FIEGE logistics centre in Apfelstätt.

Due to the special requirements for special evenness, the project includes the Twinplan®-TSR floor with a total area of approx. 10,000 m².

In a very good and constructive coordination with all project participants, such as the project management of the general contractor and the client, the best possible concept for the later utilisation was coordinated with Twintec in advance.

Within the extensive existing space of the Fiege logistics centre, one hall was completely converted for use by an AutoStore™ system.

In the multi-user centre, 160 robots will store and retrieve around 270,000 bins for a large sports retailer.

The flexible bin storage system from AutoStore™ provides more storage capacity in a significantly reduced area with manual picking work reduced to a minimum.



Project data

End user	Sportfachhandel	Surface area	10.000m²
General-entrepreneur	Bremer AG	Completion	I. Quarter 2023
Consultant	Schulz Concrete Engineering GmbH		

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The basic prerequisite for this is the floor slab on which the system is installed. Compliance with very high requirements for the evenness of the floor is necessary to ensure that the automatic system will function without any problems later on. These requirements are set by AutoStore™ and go far beyond the conventional levelness requirements according to DIN18202.

The globally active Twintec Group specialises in the creation of special flatnesses. We therefore developed a concept for the existing floor slab, which was over 20 years old, and implemented it in consultation and cooperation with the client and the general contractor.



Twintec Twinplan®-TSR

Twinplan® floors are economical and low-maintenance floors with high evenness. The existing floor slab was dimensioned in advance by the external consultant for the load cases occurring in accordance with the thickness required for use, taking into account the planned additional structure.

The **Twinplan®**-TSR concept was customised to the given local conditions and the existing floor slab. The special high evenness requirements necessary for the use can only be met by a specialist company for concrete construction such as Twintec, which has the ability to design and implement an individual concept with concrete or mineral coverings for a building in the existing building that is required due to a change of use.

In order for the AutoStore™ system to be able to travel at the high speeds required for economical storage handling, the floor must be extremely level to ensure that the robots used can travel safely.

Twintec produces the flatness directly during the installation process of the floor slab. The evenness of the floor slab created for the requirements can be recorded and logged directly using special measuring devices.



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