

Highly dynamic AutoStore® warehouse for the geomix Soccer online store in Liezen (Austria)

The online store of Geomix GmbH, official partner of the Austrian Soccer Association and the Austrian Soccer League, offers clothing and shoes for soccer, leisure, running and training. In addition, you can find original jerseys of the most important international Soccer clubs in their extensive fan store. In Liezen, Styria, an AutoStore® system will soon be installed in an existing warehouse to optimize e-commerce processes. Hörmann Logistik planned the special requirements for dynamics and pick rate in detail and will realize the project.

The concept

Based on eight operating hours on five days, available space and several system simulations with real data, Hörmann Logistik designed the individual AutoStore® system with 52 robots and 23,500 bins on nine levels. The existing hall determines the height of the AutoStore® grid.

Nine carousel ports guarantee the high pick rate of 1,500 retrievals per hour. 2 carousel ports will cover about 100 storages per hour in the first phase, three more carousel workstations are preconfigured for a second phase. The Single-Double-Grid with the overall dimensions of 31 x 40 x 4.2 m (L x W x H) is encased on three sides.

The 23,500 standard bins (649 mm L x 449 mm W x 330 mm H) allow a maximum payload of 30 kg each.

52 red-line robots supply and discharge the 11 carousel workstations. Each robot needs about 5 hours charging time per day. For this purpose, 41 charging stations are available at the edge of the grid.

Maximum dynamics with 1,500 picks per hour

All workstations are equipped for both goods receipt and picking. The warehouse employees deliver the incoming goods to the two storage ports.

1,500 presumed retrieval picks per hour result in a cycle time of approximately 19 seconds per pick.

The stacks, each with 9 bins, stand directly on the hall floor. The single-double-grid rail system is located above the bins stacks. There the battery-powered robots move autonomously. The robots jointly pick up bins, re-sort them as required and make them available at the carousel ports. Dividers allow for flexible partitioning of bins for simultaneous handling of different articles.

Four crosswise arranged pairs of wheels allow the robots to move to any position in the grid. The robots communicate via WLAN with the AutoStore® controller, from where they receive individual transport orders. In case of low workload or low battery charge, the robots automatically move to one of the charging stations at the edge of the grid.

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Press information

The AutoStore® control system sits on the connected service platform.

AutoStore® can handle complete picking orders (task group) with individual picking positions (task). With a lead-time of just 30 minutes, AutoStore® with its integrated optimization algorithms ensures maximum efficiency in job processing. The items of an order go together in one shipping box. This box holds a bar code linked to the shipping order number.

The AutoStore® system at geomix in Liezen was put into operation in autumn 2020.

Munich, May 2020

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