

The Task

Lean and intelligent processes are a vital prerequisite for a competitive production in Germany. The intralogistic solutions offered by the Klinkhammer Group will provide help here – e.g. in the manufacture of furniture.

The Solution: “Just in Sequence”

Step 1: Supply of semi-finished products to the production

Step 2: From the production directly to the shipment

Step 1: System Solution Integer

Automatic picking/retrieval of furniture panels with the integrated handling-/stacker crane type Integer in the semifinished product high-bay warehouse.

- Picking of individual pieces according to the production sequence (assembly line for cabinets)
- Provision of sequence stacks to the high-bay warehouse transfer station

Process advantages:

- Minimization of stock and buffer zones
- High process quality
- No damage through multiple manual handling
- Ergonomic solution replaces workplace with hard physical work

Description Integer:

- A stacker crane comprises a handling unit
- The stacker crane travels to the single article locations according to the order sequence list and then picks the predefined quantity of panels fully automatically.
- The panels are picked up by means of suction- or clamping grippers.
- Both technologies ensure gentle product handling and functional reliability
- The stack of panels may consist of raw- or decorative panels that are made available to the production as stack of panels



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Step 2: System Solution VectaFlex

Direct transport from the assembly lines to the shipping area with automatic sorting to the corresponding dispatch lane ensured through the modular belt conveyor VectaFlex.

- Once all parts for a tour have been put together on dispatch lane 1, the tour is transported on to dispatch lane 2
- Dispatch lane 1 is then released again for the compilation of a new tour

Description **VectaFlex**:

- Accessible transport belt
- Link chain technology
- Modular system architecture
- Suitable for almost all goods to be conveyed
- Rugged system

The “Just-in-sequence” logistic – combined with a highly automated production and partially automated shipping – ensures competitive advantages and allows a cost-effective production in Germany – including but not only focused on furniture.

