

Automated SML Integrated End-to-End Picking

Revolutionize your intralogistics! The patented Z-Picking System is the answer to the demand for maximum efficiency in minimum space. By intelligently combining vertically stacked, autonomous conveyor levels with revolutionary buffer technology, every item is available on demand. The result: unprecedented flexibility and speed that gives you a decisive competitive advantage. Unleash the full potential of your logistics.

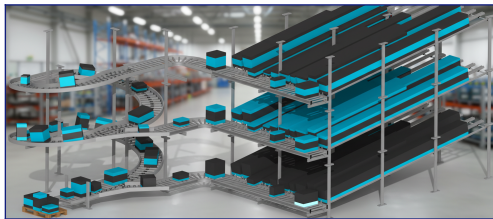


Process integration through vertical buffering

The Z-Picking System eliminates bottlenecks and creates a seamless flow of goods. Items are buffered intelligent and independent and retrieved in perfect sequence. This transforms complex jobs into a simple, continuous process.

REFERENCES:

-  Project Details (TZ-Puls)
-  View Patent application



- 01** Perfect Order Sequencing: Dynamically create any desired sequence directly at the consolidation point, without any detours.
- 02** Explosive Throughput: Maximize your speed with the fully independent parallel operation of all levels.
- 03** Maximum Operational Reliability: Autonomous levels and smart buffers prevent costly system downtimes.

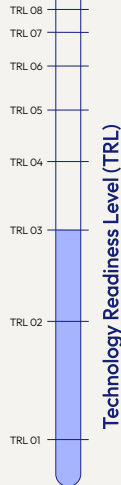


CHALLENGE

Rigid processes, costly downtime, and inefficient use of space are holding back your growth. Conventional logistics systems are often a compromise: either fast or flexible, dense storage or quick access. A single bottleneck on one level can bring the entire system to a halt. The consequences are high operating costs, lost time, and a limited ability to react with agility to fluctuating customer demands.

INNOVATION

Our game-changer is the Z-Picking System's patented, decentralized intelligence. Each level has its own smart buffer, completely decoupling it from the others. It eliminates the stretch destretch effect by using a special designed container system. Instead of rigid conveyor chains, we create an autonomous network where every item can be retrieved individually and precisely for each order. This technology makes it possible to dynamically weave goods from all levels into a perfect sequence—with a level of compactness and stability that was previously unattainable.



01 Basic principles observed · **02** Technology concept formulated · **03** Experimental proof of concept · **04** Technology validated in lab · **05** Technology validated in relevant environment · **06** Technology demonstrated in relevant environment · **07** System prototype demonstrated in operational environment · **08** System complete and qualified



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