

## SSI ORBITER®

### Maximum performance in channel storage systems

Increasing order numbers and the associated need for efficient storage options for pallets of varying depths requires flexible, space-saving systems. The changing market requirements demand the top to bottom optimization of entire storage volume – while at the same time achieving a high level of efficiency and cost-effectiveness.

Channel storage systems concentrate on maximizing the use of space while keeping operating costs low. Thanks to the compacted storage, they use the available space perfectly.

This technology is particularly well suited to handling large amounts of items with low diversity, such as in the food and beverage industry or in temperature-controlled environments that require a lot of power.

With the SSI Orbiter, SSI SCHAEFER has both semi-automatic and fully-automatic systems to achieve greater availability, service quality and supply capability, in addition to efficient utilization of space.





**Your Benefits**► **Performance**

Parallel work steps create high picking performance

► **Scalability**

If the stock turnover needs to be increased later, adding additional channel vehicles is simple and straightforward

► **Availability**

Using multiple channel vehicles ensures the optimum utilization of the system

► **Cost and energy efficiency**

The high level of space utilization minimizes operating costs. The high storage density creates maximum energy efficiency

► **Durability and safety**

Work is only carried out at the ends of the channels

## Channel storage system: A space-saving miracle

Channel storage systems enable compact storage. Several storage units are included one after the other in channels. The operation of the system is carried out by channel vehicles. Only the loading unit at the very front of each channel can be accessed. For this reason, this system is most suited to large volumes with low item diversity. The channels are therefore usually filled with a single item.

## The optimal solution

In semi-automatic applications, when connected to a docking station, the innovative SSI Orbiter offers optimal utilization of space alongside extremely high flexibility, maximum personal safety, sustainability, and ease of use in the channel storage system. It also enables vastly improved pallet handling efficiency.

**Safe**

- The docking station remains at the front of the channel, restricting access to the channel
- Safe transport in the warehouse – the Orbiter locks onto the docking station when transferring between channels
- Maximum safety in the warehouse thanks to the integrated Safety PLC

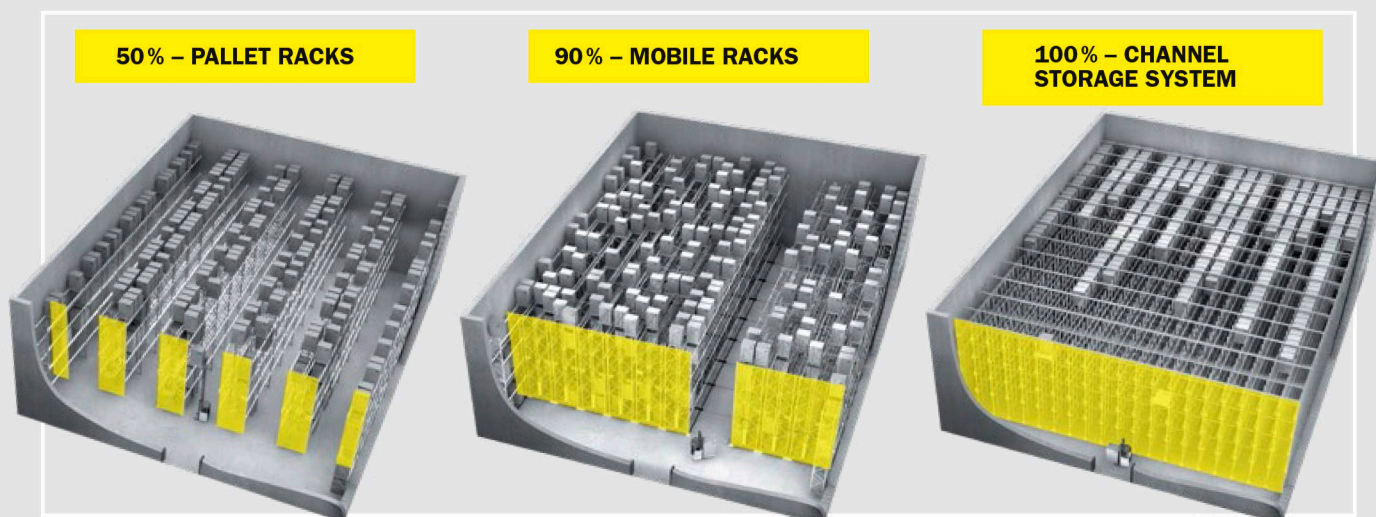
**Flexible**

- Mixed FIFO/FILO operation possible within the same warehouse
- Various pallet types can be handled
- Can be implemented as either a semi-automated or fully automated system
- Suitable for use in earthquake-prone areas
- Suitable for use in deep-freeze environments

**User-Friendly and efficient**

- Simple and fast insertion into a rack thanks to precisely measured entry tolerances
- User-friendly operation thanks to pictograms on the remote control
- Parallel use of multiple SSI Orbiter creates maximum efficiency

## Compact. More compact. Channel storage system.





## SSI ORBITER: How it works

**1.** Bin stackers pick up the docking station and the Orbiter and insert it into the centering console of the required rack channel. The channel storage system is fully functional even with just one Orbiter.

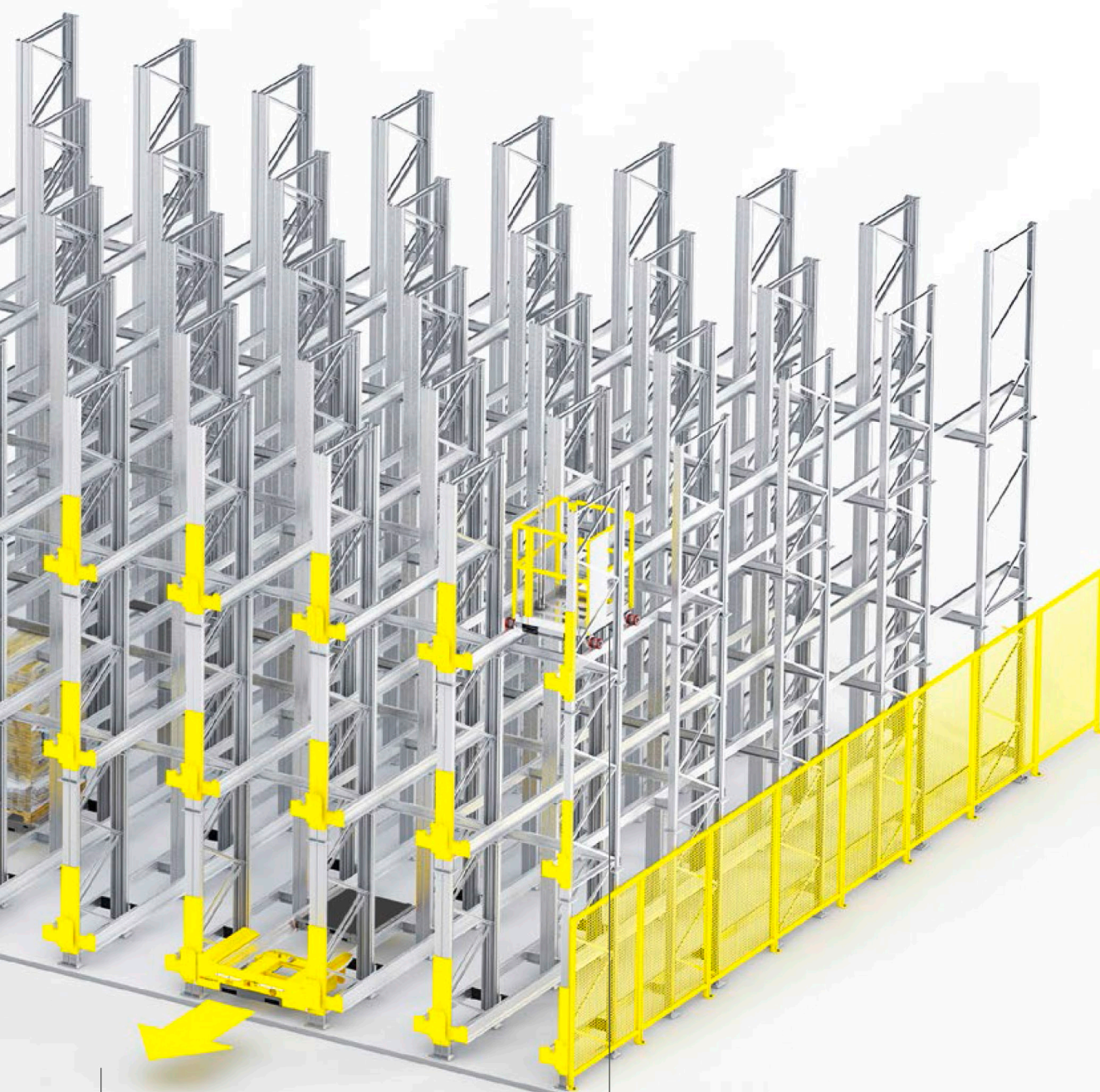


**2.** The pallets to be loaded are picked up by the bin stacker and placed on the Orbiter.



**3.** Movement commands are transmitted to the channel vehicle using a wireless remote control. The Orbiter collects the pallets with a small lift and transports it to the next available storage location in the channel.





**4.** After unloading the pallets, the Orbiter automatically returns to the docking station. The functional unit consisting of docking station and Orbiter can be used in a different channel straight away.

**5.** Components such as retrieval platforms and safety fences guarantee the highest level of personal safety.

Boxes /  
containersModular  
shelvingLongspan  
rackingPallet  
rackingCantilever  
rackingMezzanines /  
platformsOn-line shelving /  
KDR shelvingSemi-automated  
solutionsLogistics  
systems

Appendix