# Pallet shuttle systems
# CAPtriever (Truck-Shuttle)


**New possibilities for planning and optimizing automated pallet warehouses**

The CAPtriever truck accelerates up to 3 meters per second in the main aisle of a channel storage system. State-of-the-art drive technology from SEW-Eurodrive and a lower vehicle weight for individual units ensure high energy efficiency and minimal energy consumption.

The power supply for the shuttles is wireless: the pallets, driven by supercapacitors, glide into the storage lanes at a speed of one meter per second.

**The new generation of our proven storage technology for automated pallet warehouses:**

The CAPtriever is a pallet shuttle system that combines a rail-bound truck with a wireless pallet shuttle, which we equip with a WLAN module and 48V supercompensators.

## Core Benefits

**Supercapacitors**
fast charging time, long service life, high power density, recuperation possible

**Ideal for food products**
low-wear toothed belts, gearbox with H1 oil, easy to clean, suitable for freezing conditions

**Scalability**
if capacity cannot be achieved with one shuttle, additional shuttles can be operated with a truck

**Efficiency**
low vehicle weight, high payload, shuttle control via WLAN, intrinsic safety

SMB International GmbH | Friedrich-List-Str. 3-5 | 25451 Quickborn | Germany
info@smb-group.de | www.smb-international.com

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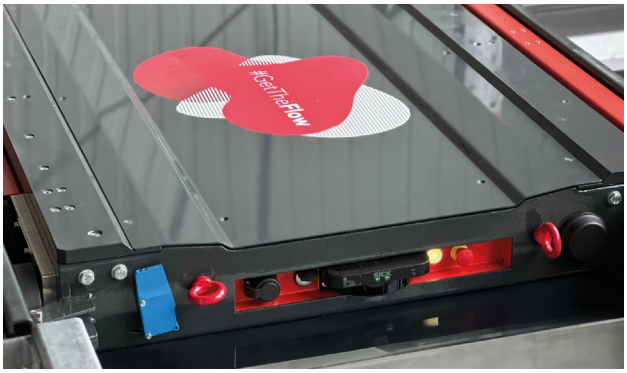
### Low risk of fire

PowerCaps (supercapacitors) are considered a very safe solution for energy storage, as they store energy electrostatically rather than chemically, unlike lithium-ion batteries. The risk of fire with PowerCaps is therefore generally very low to nearly impossible.

### Wireless pallet shuttle system

SMB's automated pallet warehouse uses the CAPtriever to optimal effect for multi-deep storage in channel racks. The WLAN-controlled shuttles transport Euro, industrial, and drum pallets weighing up to 1,500 kg and enable storage capacities of up to 100,000 pallet positions as well as channel depths of up to 25 meters.

Thanks to modular adaptations, the systems can be used flexibly in high-bay warehouses and compact storage systems. If the system is not to be used at full capacity, we can equip the CAPtriever with a pallet lift so that two storage levels can be combined, which saves on material and conveyor technology.




### Warehouse logistics made simple

The warehouse management system manages and controls the warehouse operations, implements strategies and takes pallet and warehouse parameters into account. The material flow controller calculates optimal transport routes and controls them via PLC. SMB provides the interface to the customer's ERP system and converts the information internally. It is always possible to adapt the software to specific logistics requirements.

**Get a quote!**

Learn more and request a personalized quote directly on our website!

## Technical data
## CAPtriever (Truck-Shuttle)

| | |
|---|---|
| **Power supply** | |
| Energy transfer | Charging contacts |
| Energy storage | Supercapacitor (48 V) |
| **Data connection** | WLAN / Wireless |
| **Safety and security** | |
| Obstacle detection | Safety scanner on both sides |
| Actuating elements | Emergency stop on both sides |
| Position detection | Safe measuring wheel |
| Pallet detection | Light scanner on both sides |
| **Drive technology** | |
| Motors | Synchronous servomotors |
| Gearbox | with food-grade H1 oil |
| **Number of wheels** | 8 (of which 4 are driven) |
| **Display elements** | Status lights on both sides |
| **Tare weight** | 300 kg |

| | |
|---|---|
| **Maximum payload** | 1,500 kg |
| **Pallet dimensions** | |
| | 1,200 x 800 mm |
| | 1,200 x 1,000 mm |
| | 1,200 x 1,200 mm |
| **Max. pallet sag** | 35 mm |
| **Travel speed** | |
| with load | 0.75 m/s |
| without load | 1.00 m/s |
| **Lifting stroke** | 30 mm |
| **Lifting time** | 2 s |
| **Max. channel depth** | 25 m |
| **Temperature at work** | +4 °C to 40 °C |
| **Deep-freeze (request)** | down to -28 °C |