

UPC Under Pallet Carrier

UPC P1 / P2 / P4 / P5 / P6

Lift height: 27 mm / Capacity: 1500 kg

**JUNGHEINRICH**

The semi-automatic shuttle solution

for compact storage.

Collision-free stacking and retrieval of pallets.

Under Pallet Carriers that travel independently in the pallet channel form the basis of our shuttle compact warehouse system – a complete solution consisting of the channel racking, carrier truck and carrier. The advantages are clear: The shuttle moves independently of the carrier truck under the stored pallets in the channel. This type of rack operation requires fewer aisles and allows for the compact storage of more pallets across the same warehouse space. Stacking and retrieval can also be carried out according to the LiFo or FiFo principle. For maximum flexibility, different variants of the shuttle system allow the handling of various load carriers, such as Euro pallets or industrial pallets in the same racking system. Sensors automatically detect the size and position of the pallets and prevent collisions with other pallets. In order to offer the greatest possible protection to man and machine in automated warehouse operation, our UPC shuttles are optionally equipped with the PPS personal protection system.

All the advantages at a glance

- Collision-free stacking and retrieval of pallets
- Flexible handling of different pallet types
- Optimal use of space thanks to compact storage
- Virtually any Jungheinrich truck can be used
- Stacking and retrieval according to the LiFo and FiFo principle is possible

Your Jungheinrich shuttle for maximum customer benefit.



Efficiency

Maximum performance with the most efficient vehicles.

The UPC shuttle supports semi-automatic pallet storage in the compact warehouse system with fewer aisles and improved throughput.

Efficient for two and three-shift operation

- Separate battery charger for the carrier for easy charging at any 230-V mains socket.
- Depending on the intensity of use, the carrier can be used for eight to ten hours with a fully charged battery pack.
- An additional second battery pack – in conjunction with the optional battery charging station – considerably increases the operating period in two/three-shift operations.
- Battery tray allows the battery to be exchanged in seconds.
- High throughput and time savings, especially during complete filling or emptying of the pallet channels.

User-friendly hand-held radio terminal

- Operating terminal and controller communicate via a bi-directional radio link run on the registration-free ISM band (433 MHz).
- Ergonomic, mounted in the operator's field of vision.
- Simple operation and clear information display.
- Clear layout of function keys.
- Numerous diagnostic functions for the Jungheinrich Service department.
- Also suitable for mobile use.
- Alternative if a WMS already exists: virtual operation on the touchscreen of a data radio terminal, realistic display and functionality and thus increased operator ergonomics.
- With larger racking systems, up to 69 different carriers can be selected using a hand-held radio terminal. The operator only needs to change the identification on the hand-held terminal to contact the next carrier.



Safety

Best prepared for safe warehouse operations.

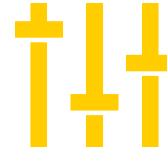
For increased safety in automated warehouse operation, the optional personal protection system prevents unauthorised entry to pallet channels or aisles.

UPC with personal safety system PSS (optional)

- Prevents unauthorised access to a pallet channel or aisle.
- If an alarm sounds then the UPC carriers can be brought to a standstill by the PSS.
- Authorised trucks, which are identified automatically, are not prevented from accessing the rack operating equipment.
- Extensive protection when moving UPC carriers, pallets and loads is one of the measures recommended by the BGHW (German employer's liability insurance association for trade and goods distribution) to reduce hazards.

Greater reliability

- More than 4,700 Jungheinrich after-sales service engineers are available around the clock worldwide.
- Spare parts availability of 98 %, including overnight delivery.



Individuality

A truck as individual as your business.

Different versions of the shuttle system are available, which are adapted to suit the individual applications. The cold store version, for example, can be used at temperatures down to -30°C.

Special functionalities

- Stacking and retrieval based on LiFo (Last in, first out) and FiFo (First in, first out) is made easy.
- When completely emptying a channel, e.g. for a delivery order, the UPC automatically transfers each pallet from the channel to the retrieval area where it is collected with a forklift truck and taken to goods outward.
- This function is also possible if a specific number of pallets are to be retrieved.
- Compression: If no stacking or retrieval operations are required, (e.g. at the end of the shift), all pallets can be automatically moved to the retrieval area.

Flexible handling of different load carriers

- Euro pallets.
- Industrial pallets.
- Euro and industrial pallets in the same racking system: combination carriers with sensors for detecting the pallet size.
- Chemical pallets.
- Other variants available on request.

UPC compact warehouse system in cold store

- Shuttle system in cold store version (optional) can be used in temperatures down to -30°C.
- Increased operational readiness thanks to additional battery pack with charging station.

overview

The suitable solution for your applications:

Name	Capacity/load	Travel speed	Lift speed unladen
UPC P1	1.500 kg	3.8 km/h	0.01 m/s
UPC P2	1.500 kg	3.8 km/h	0.01 m/s
UPC P4	1.500 kg	3.8 km/h	0.01 m/s
UPC P5	1.500 kg	3.8 km/h	0.01 m/s
UPC P6	1.500 kg	3.8 km/h	0.01 m/s

The German production facilities in Norderstedt, Moosburg and Landsberg are certified.

ISO 9001
ISO 14001

Jungheinrich fork lift trucks meet European safety requirements.



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