

Collision-free work

Flexible handling of
different pallet types

Optimum space utilisation

Can be used with virtually any
Jungheinrich fork lift truck



Under Pallet Carrier UPC

Compact storage shuttle system (1,500 kg)

Our Compact Storage System with UPC (Under Pallet Carrier) – consisting of carrier, carrier truck and channel racking – facilitates optimum utilisation of storage space. UPC racking provides sufficient height and width for several pallet channels. The low height utilisation per channel level also allows effective use of the available storage height. Any Jungheinrich fork lift truck with sufficient residual capacity can be used as a carrier truck.

The UPC is particularly effective during repeated stacking and retrieval in the same pallet channel or when buffering a large quantity of the same pallets. The UPC is put on the forks of the carrier truck and used in the pallet channel. There it travels independently under the stored pallets without being connected to the carrier truck.

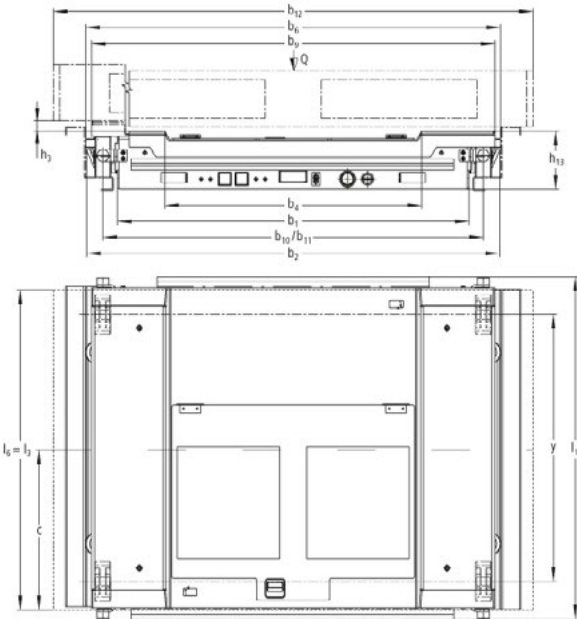
After putting down the first pallet on the UPC rail in the racking channel and pressing the start button on the operating terminal, the controller carries out all necessary travel and lift movements independently. Sensors recognise the position of stored pallets. There is therefore no danger of collision when stacking and retrieving new pallets.

The operator can pick up another pallet while the carrier is travelling, place it at the start of the channel, start the next stacking operation and begin a new work cycle. The retrieval is carried out accordingly.

The operating terminal and controller communicate via bi-directional radio link run on the registration-free ISM band (433 MHz).

**JUNGHEINRICH**

Under Pallet Carrier UPC



Technical data in line with VDI 2198

			Jungheinrich						
			UPC P1	UPC P2	UPC P4	UPC P5	UPC P6		
Identification	1.1	Manufacturer (abbreviation)							
	1.2	Model							
	1.3	Drive							
	1.4	Manual, pedestrian, stand-on, seated, order picker operation							
	1.5	Load capacity/rated load	Q	t					
	1.6	Load centre distance	c	mm	400	500	600	500 ¹⁾	570
Weights	1.9	Wheelbase	y	mm	667	845	1,044	845	984
	2.1.1	Net weight incl. battery (see row 6.5)		kg	190	212	208	212	225
	2.2	Axle loading, laden front/rear		kg	845 / 845	856 / 856	854 / 854	856 / 856	863 / 863
	2.3	Axle loading, unladen front/rear		kg	95 / 95	106 / 106	104 / 104	106 / 106	113 / 113
	Wheels / frame	3.1	Tyres						
		3.2	Tyre size, front		mm				
3.3		Tyre size, rear		mm					
3.5		Wheels, number front/rear (x = driven wheels)							
3.6		Tread width, front	b ₁₀	mm	952	952	782	952	842
3.7		Tread width, rear	b ₁₁	mm	952	952	782	952	842
Basic dimensions	4.4	Lift	h ₃	mm					
	4.15	Height, lowered	h ₁₃	mm					
	4.16	loading area length	l ₃	mm	800	1,000	1,200	1,000	1,140
	4.18	Loading area width	b ₉	mm	1,010	1,010	840	1,010	900
	4.19	Overall length	l ₁	mm	864	1,064	1,264	1,064	1,204
	4.21	Overall width	b ₁ /b ₂	mm	880 / 1,034	880 / 1,034	710 / 868	880 / 1,034	770 / 924
	4.26	Width between support arms/loading areas	b ₄	mm	651	651	398	651	468
	4.27	Width across guide rollers		mm	1,038	1,038	868	1,038	928
Performance data	4.38.4	Pallet width		mm	1,200	1,200	1,000	1,200	1,140
	4.38.5	Pallet length		mm	800	1,000	1,200	1,000 ¹⁾	1,140
Electrics	5.1	Travel speed, laden/unladen		km/h					
	5.2	Lift speed, laden/unladen		m/s					
	5.3	Lowering speed, laden/unladen		m/s					
Misc.	6.1	Drive motor, output S2 60 min.		kW					
	6.2	Lift motor, output at S3 15%		kW					
	6.4	Battery voltage/nominal capacity K5		V/Ah					
	6.5	Battery weight		kg					
	8.1	Type of drive control							
8.4	Sound pressure level at operator's ear as per EN 12053		dB (A)						

¹⁾ Model P5 can be switched; Euro pallet: c = 600 mm, l 800 mm

²⁾ Rail guided in pallet channel

³⁾ Travel speed with load with Q = 1000 kg

Benefit from the advantages



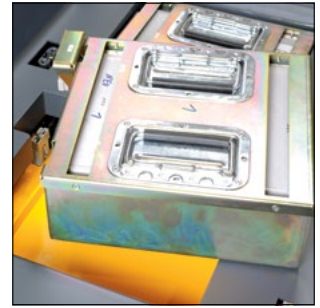
UPC returns to the beginning of the channel



UPC operation via hand-held radio terminal



Stationary personal protection system (PSS)



Easy battery exchange

Flexibility by handling different pallet types

Different UPC variants facilitate the handling of different load carriers:

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

Special functionalities

- Stacking and retrieval based on LIFO (Last in, first out) and FIFO (First in, first out) is made easy.
- When the channel is to be emptied completely, e.g. for a delivery order, the UPC automatically takes each pallet in the channel to the retrieval side from where it is removed by a fork lift truck and taken to Goods Outward.
- This feature is also available if only a certain number of pallets are to be retrieved.
- Compression: If there is no storage or retrieval taking place (e.g. at end of shift), all pallets can automatically be brought to the retrieval side.

UPC compact storage system in cold store

A high degree of space utilisation is of particular importance for the efficient

operation of a cold store. The UPC cold store version (optional) operates in temperatures as low as -30°C . A second battery set with charging station noticeably increases operational availability.

User-friendly hand-held radio terminal

- Ergonomic mounting within the operator's field of vision.
- Simple to operate with a clear information display.
- Clearly arranged function keys.
- Numerous diagnostic functions for Jungheinrich Service.
- Can also be used for mobile applications.
- Alternatively, when a WMS is already in place: Virtual operation on the touchscreen of a radio data terminal, presentation and function as in reality and consequently, increased operating ergonomics.

Larger racking systems with several carriers

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.

Under Pallet Carrier System UPC with personal protection system (PPS)

The optional personal protection system protects the entrance to a pallet channel or an aisle against unauthorised access.

- An alarm sounds, optionally the UPC carrier (PPS) comes to a halt.
- Only authorised trucks which are automatically recognised can operate in the rack channels.
- Comprehensive protection with movement of the UPC carrier, pallet and load, corresponds to one of the measures for reducing risks, as suggested by the German Employers' Liability Insurance Association (BGHW).

Easy battery exchange for two and three-shift operation

- A separate battery charger for the carrier ensures easy charging at any 230-V mains socket. Depending on the intensity of use, the carrier can be used for 8 to 10 hours with a fully charged battery set.
- An additional second battery set – in combination with the optional battery charging station – significantly increases the operating time in two and three-shift operations. The battery can be exchanged in seconds thanks to the battery container.

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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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