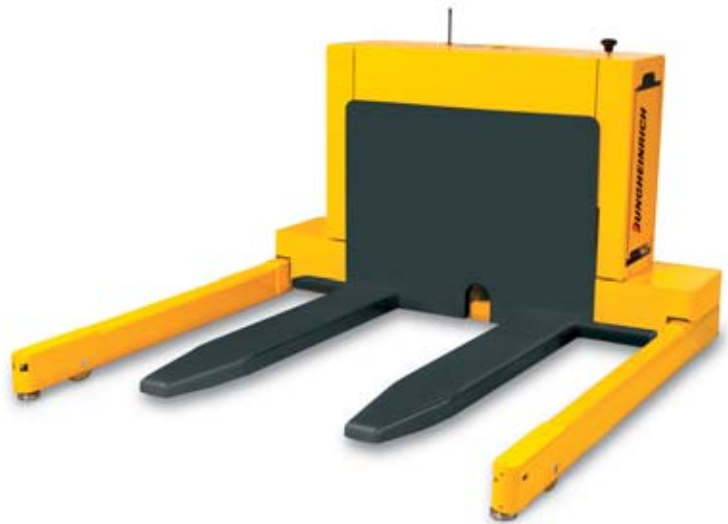


Freely selectable channel depth

Stacker-independent power supply

Operational with virtually any Jungheinrich stacker



DIS Drive-In-System

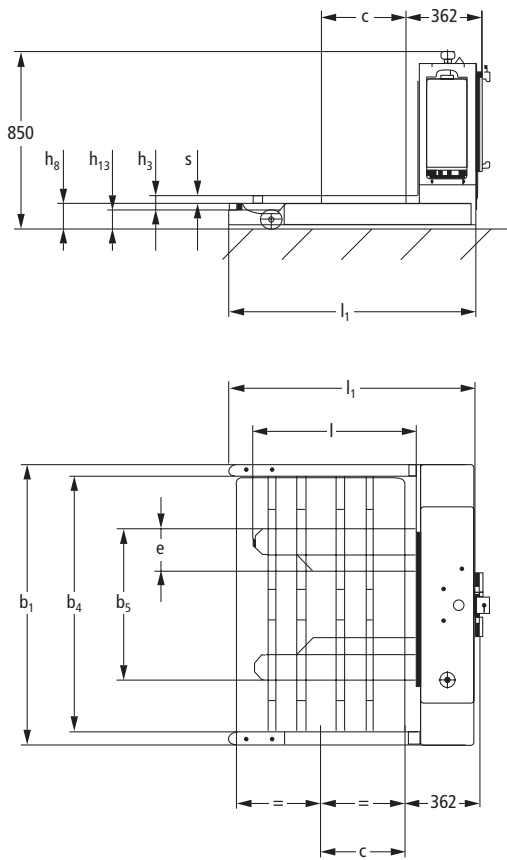
Multi-depth stacking system DIS Drive-In-System (1200 kg)

The Jungheinrich multi-depth stacking system DIS Drive-In System provides space-saving storage of any number of pallets, one behind the other. As a manual compact storage system – consisting of DIS load carriage, a carrier truck and DIS racking – it facilitates consistent utilisation of storage space. The DIS racking provides space for numerous pallet channels in height and width. Any Jungheinrich stacker with FEM fork carriage, sufficient residual capacity and sideshift can be used as carrier truck.

The DIS load carriage travels independently into the pallet channel without being connected to the carrier truck. Applied in the channel – whether with or without load – the DIS load carriage's active locking to the carrier truck is deactivated. After pressing the start button on the handy operating console, the process control carries out all travel and lift movements independently. Sensors recognise the position of stored pallets for accurate positioning of the load carriage.

Operating terminal and process control communicate via bi-directional radio link run on the registration-free ISM band (433 MHz). After returning to the channel start, the load carriage is picked up by the stacker again and actively locked – ready for another working cycle. The effective control of the coupling to the stacker ensures maximum safety.

DIS Drive-In-System



Technical Data in line with VDI 2198 as at: 09/2005

Identification	1.1	Manufacturer (abbreviation)	Jungheinrich	Jungheinrich	Jungheinrich	Jungheinrich	Jungheinrich	1.1	
	1.2	Manufacturer's type designation	DIS P1	DIS P2	DIS P3	DIS P4	DIS P5	1.2	
	1.3	Drive (electric – battery or mains, diesel, petrol, fuel gas, manual)	electric	electric	electric	electric	electric	1.3	
	1.4	Type of operation (hand, pedestrian, standing, seated, order picker)	hand ²⁾	hand ²⁾	hand ²⁾	hand ²⁾	hand ²⁾	1.4	
	1.5	Load capacity/rated load Q (t)	1.2	1.2	1.2	1.2	1.2 ¹⁾	1.5	
	1.6	Load centre distance c (mm)	400	500	600	600	500 ¹⁾	1.6	
	1.9	Wheelbase y (mm)	826	1026	1226	1226	1026	1.9	
Weights	2.1	Service weight incl. battery (see line 6.5) kg	440	440	440	440	440	2.1	
	2.2	Axle loading, laden front/rear kg	940/700	940/700	940/700	940/700	940/700	2.2	
	2.3	Axle loading, unladen front/rear kg	110/330	110/330	110/330	110/330	110/330	2.3	
Wheels, Chassis	3.1	Tyres (solid rubber, superelastic, pneumatic, polyurethane)	polyurethane	polyurethane	polyurethane	polyurethane	polyurethane	3.1	
	3.2	Tyre size, front	100x45	100x45	100x45	100x45	100x45	3.2	
	3.3	Tyre size, rear	180x40	180x40	180x40	180x40	180x40	3.3	
		3.5	Wheels, number front/rear (x = driven wheels)	2/2x	2/2x	2/2x	2/2x	2/2x	3.5
		3.6	Track width, front b ₁₀ (mm)	1274	1274	874	1074	1274	3.6
		3.7	Track width, rear b ₁₁ (mm)	1154	1154	754	954	1154	3.7
Basic Dimensions	4.4	Lift height h ₃ (mm)	80	80	80	80	80	4.4	
	4.10	Height of wheel arms h ₈ (mm)	122	122	122	122	122	4.10	
	4.15	Lowered height h ₁₃ (mm)	100	100	100	100	100	4.15	
	4.19	Overall length l ₁ (mm)	1177	1377	1577	1577	1377	4.19	
	4.21	Overall width b ₁ /b ₂ (mm)	1340/–	1340/–	940/–	1140/–	1340/–	4.21	
	4.22	Fork dimensions s/e/l (mm)	50/160/780	50/160/980	50/160/1180	50/160/1180	50/160/980	4.22	
	4.25	Width over forks b ₅ (mm)	720	720	570	570	720	4.25	
	4.26	Distance between support arms/loading surfaces b ₄ (mm)	1220	1220	820	1020	1220	4.26	
	4.32	Ground clearance, centre of wheelbase m ₂ (mm)	22	22	22	22	22	4.32	
		Pallet width b ₁₂ (mm)	1200	1200	800	1000	1200		
		Pallet length l ₆ (mm)	800	1000	1200	1200	1000 ¹⁾		
Performance Data	5.1	Travel speed, laden/unladen km/h	1.8	1.8	1.8	1.8	1.8	5.1	
	5.2	Lift speed, laden/unladen m/s	0.01/0.02	0.01/0.02	0.01/0.02	0.01/0.02	0.01/0.02	5.2	
	5.3	Lowering speed, laden/unladen m/s	0.04/0.02	0.04/0.02	0.04/0.02	0.04/0.02	0.04/0.02	5.3	
E-Motor	6.1	Drive motor rating S ₂ 60 min. kW	0.37	0.37	0.37	0.37	0.37	6.1	
	6.2	Lift motor rating at S ₃ 15% kW	0.4	0.4	0.4	0.4	0.4	6.2	
	6.4	Battery voltage, nominal capacity K ₅ V/Ah	2x 12/60	2x 12/60	2x 12/60	2x 12/60	2x 12/60	6.4	
	6.5	Battery weight kg	58	58	58	58	58	6.5	
	8.1	Type of drive control	impulse	impulse	impulse	impulse	impulse	8.1	
Others	8.4	Sound level at the driver's ear according to DIN 12053 dB(A)	66	66	66	66	66	8.4	

1) Type P5 switchable: c = 600 mm, l₆ = 800 mm, Q = 1.0 t (Euro on fork tip)
 2) Rail guided in pallet channel

Make use of the advantages

Easy battery change for 2- and 3-shift operation

The load carriage's battery charger facilitates easy charging at any 230 V mains socket. Dependent on how hard the application is, the load carriage with fully charged battery is operational for 8 to 10 hours. An additional second battery – in combination with the battery change trolley (optional) – significantly increases the application time in 2- or 3-shift operations. Battery change is accomplished in seconds thanks to the battery container. The battery container on rollers is pushed into the DIS load carriage from the side and contact is made automatically. In continuous operation with the load carriage, the discharged battery is charged in the meantime with the battery change trolley's integrated charger.



DIS with battery change trolley

DIS Drive-in System in cold store

Excellent space utilisation is particularly important for efficient operation in a cold store. The DIS Drive-in System in cold store

design (optional) permits applications in temperatures up to -30°C . Here also, a second battery with battery change trolley significantly increases availability.

Replacement forks for other applications

Fitting replacement forks to the coupling of the "DIS stacker" facilitates any pallet racking to be served during interim periods. The load carriage can meanwhile remain in the DIS racking. The exchange only takes a few seconds – without time-consuming installation on the fork carriage.



Replacement forks 1180 mm long

Simultaneous application of several load carriages

In particularly deep pallet channels, the longer journey of the load carriage can be utilised for a parallel working cycle. The operator only needs to change the identification on the hand-held radio terminal to contact another allocated load carriage.



Hand-held radio terminal with docking station

User-friendly hand-held radio terminal

- Ergonomically mounted within the operator's field of vision.
- Simple operation and clear information display.
- Well-arranged function keys.
- Numerous diagnostic functions for Jungheinrich Service.
- Mobile application possible.

User advantages of the DIS Drive-in System

- High volume utilisation of warehouse space.
- Safe and gentle handling of goods.
- A semi-automatic system with flexibility in performance.
- Investment lower than for comparable compact storage.
- Organisation and transparency for warehouse administration.

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