

Increased storage capacity
with a significantly
smaller footprint

Accurate inventory stocks
due to integration in internal
ERP/WMS systems

More security and protection
for operator and goods

Modular expandability



Jungheinrich LRK

Vertical lift system (1,000 kg)

The modular LRK vertical lift is a self-contained system in which trays are stored vertically on both sides of the unit. By reading a bar code or pressing a button, trays are automatically conveyed to the extractor located in the centre and transported from here to the service opening.

Due to the modular design, the LRK can be adjusted at any time both before and after installation to the relevant height requirements – and the number of service openings can also be modified.

Depending on the room height, it is possible to save up to 85 percent on floor space in comparison with conventional systems.

The LRK scans each tray automatically – the products to be stored are then assigned to the ideal storage location in

increments of 25 mm.

The modular design of the LRK ensures almost unlimited flexibility regarding the use of different ceiling heights. The unit height can be selected at intervals of 100 millimetres to ensure that the LRK always corresponds optimally to the respective capacity and height requirements. Even if its location changes, it can be quickly adapted to the new conditions by adding or removing modules.

When used over several floors, up to 6 service openings can be integrated into the front and back of the LRK at any point; these can also be changed subsequently. The shutter door in each service opening prevents draughts and protects operators and stored goods.

Jungheinrich LRK



Technical data

Model description		LRK250/500	LRK700	LRK1000
Application height	mm a	2550-30050	2550-20050	2550-20050
Appliance width ¹⁾	mm b	1580-4380	1580-4380	1580-4380
Application depth	mm c	2312/2921/3074	2363/2972/3125	2363/3125/4342
Max. load	t	67/120	67/120	67/120
Colour		RAL1028/RAL7035 or individual colour choice		
Tray width ¹⁾	mm	1250-4050	1250-4050	1250-4050
Tray depth ¹⁾	mm	610/813/864	610/813/864	610/864/1270
Tray load	kg	125-560	240-725	430-1000
Storage increments	mm	25	50	50
Min tray interval	mm	75	100	150
Max. goods height	mm	730	730	730
Drive system		Toothed belt		
Lift motor	kW	2.2/4	4	4
Max. lift speed	m/s	1.3 m/s fully loaded 2.0 m/s empty	0.75 m/s fully loaded 1.2 m/s empty	0.5 m/s fully loaded 0.75 m/s empty
Max. extractor speed	m/s	0.7	0.39	0.39
Guidance service opening		Centred guidance of service opening via 10 rollers		
Max. number of openings		6		
Internal shutter door		Standard		
Personal protection		Light curtain		
Height detection		Light curtain – 25-mm intervals		
Option		Confirmation bar Vertical photocells for shaft monitoring		
Control panel		OP0/OPJH-Control/OP Touch 10"		
Control		JH-Control 1000 (Standard)/JH-Control 2000 (Optional)		
Weight management		JH Control option – via resistance method		
Pick-by-light		LED position indicator/Vario position indicator/TIC matrix/LED pointer/Laser pointer		
Tray extraction		Roller track set/Manual hinged tray extraction/Transport cart/Tray extraction for stacker truck operation/Semi-automatic or automatic full tray extraction		
Safety		Internal shutter door		
Emergency system		2-handed operation		

¹⁾Special dimensions on request

Benefit from the advantages

System integration

In order to integrate the LRK into your storage processes as efficiently as possible, the optional Logistics Interface provides an interface to your warehouse IT. This connection optimises picking processes with the lift system and facilitates a real-time inventory in the warehouse management system.

Modularity

The modular design means that the height of the unit can be quickly and cost-effectively adjusted to changes in location or working conditions.

Flexibility

Using programming, each tray can be adapted to the required needs: Slow speeds for fragile items, storage of fre-

quently used items close to the 'golden zone', access rights for trays, storage of trays with different weight capacities in a single unit and much more.

Accuracy

Integrated pick-to-light systems, barcode scanner and software interfaces guarantee the highest level of accuracy. Connection to conveyors, robotic arms or lifting mechanisms guarantees maximum comfort in the workplace.

Increased security

Not only does the LRK allow controlled access to individual trays, it also facilitates the precise tracking of which operator has accessed which tray. Shutter doors guarantee increased security and more protection for personnel and

goods.

Ergonomics

The LRK operates in accordance with the 'good-to-person' principle: Required parts are automatically delivered to the ergonomically designed service opening. The operator is no longer required to climb, bend or stretch to reach the stored item. The trays can be brought to an individual working height and connected with conveyors or lifting mechanisms.

Space saving

The almost continuous storage of trays at intervals of just 25 mm saves up to 85 percent on the size of the footprint.

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