



Better handling, lower energy consumption:
Hi-Racker order-picking stacker

DAMBACH
LAGERSYSTEME

Narrow aisles, good turnaround.

The new Hi-Racker for lower energy consumption coupled with better economy.



More than 6000 DAMBACH narrow-aisle trucks in operation are impressive proof of their performance, reliability and flexibility. And the Hi-Racker order-picking stacker has now been improved: better handling, better efficiency and at the same time a lower energy consumption.

- Unique DAMBACH innovation: folding mast for simple setting-up
- Practical: no hydraulic lines on the mast
- Longer life, more productivity: 80 V battery
- Powerful: aisle and cabin lighting
- Decentralised: precision variable hydraulics
- A secure investment: good flexibility
- Efficient: energy recovery and low energy requirement
- Economic: inexpensive, simple servicing
- Screwed load wheel axle
- Split control panel
- Non-vibrating mast design for high working heights

Standard fittings instead of options: the Hi-Racker satisfies all demands

No two storage and order-picking tasks are alike. An individual solution tailored to the company's procedures must be found for every application. Those procedures often place very special requirements on forklifts and warehouses. So it's good to know you can depend on the comprehensive standard features of the Hi-Racker. Many functions and technical features normally only available as special extras are quite simply standard on this model – at no extra cost to you, of course. Those standard features include:

- Variable diagonal speed depending on load, height and direction
- Infinite control of hydraulic pump r.p.m.
- Integral diagnostics
- Zero-maintenance high-dynamics three-phase drives
- Superimposed swivel/traverse forks cycle
- Adjustable end-of-travel damping of manoeuvring axles
- RFID technology for good flexibility
- Lifting mast with oblique roller guiding
- Dynamic three-phase steering motor

Built-in ergonomics: to avert fatigue and promote concentration

- Ergonomic operator cabin with sprung, individually adjustable, comfortable seat
- Infinitely adjustable control panel with integral display
- Direct programming of functional modifications at the control panel
- Electric power-assisted steering
- Battery level indicator with monitoring function

Safety with a capital S: you can depend on it

- Display of machine status and service information
- Overload protection in hydraulic system with lowering brake
- Emergency lowering of operator cabin in dangerous situations
- Display of lifting height measured by laser
- Display of driving wheel position
- Abseil device for leaving the cabin in an emergency
- Dead man switch and slack chain safety feature



Storage and retrieval or order picking? No matter what the job, the Hi-Racker from DAMBACH can handle it. No other machine in this class achieves such an optimum combination of performance and economy. What that means for your everyday operations is that you get a faster turnaround for a minimal energy requirement. All thanks to the latest technology, energy recovery and a graded range of models to suit individual needs, individual locations. With storage heights of up to 15.80 m and lifting capacities of up to 1500 kg, all users will find a model that suits their requirements exactly.



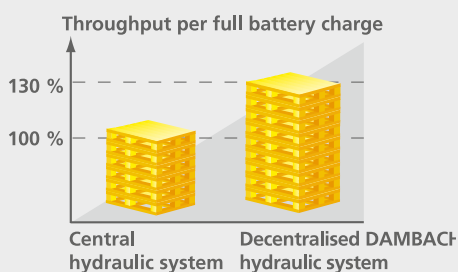
Less energy, easier servicing: hydraulic system

DAMBACH innovations have been setting standards for decades. And that includes the Hi-Racker with its special hydraulic system consisting of two independent decentralised hydraulic circuits, both fitted with a pump tailored exactly to that circuit's requirements. That means power is produced exactly where it is needed. The friction losses associated with long hydraulic lines are a thing of the past. The result speaks for itself: energy consumption has been reduced to such an extent that a fully charged battery now gives you about 30% more storage and retrieval operations.

And one further benefit: there are no hydraulic lines on the mast, which makes servicing much easier. For the operator that means a much better view through the mast.

And for you that means:

- Better performance
- Lower energy consumption
- Optimised control response
- Longer intervals between oil changes
- Longer operating times

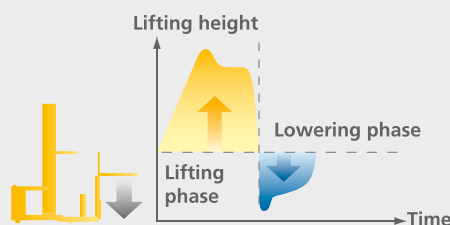


Versatile and powerful: for high-level racking and narrow aisles

The Hi-Racker is a true multitalent, combining a minimum footprint with maximum performance. Thanks to its coordinated modular design, it can be ideally adapted to suit the most diverse working conditions and tasks. So no compromises, just tailored performance for every application

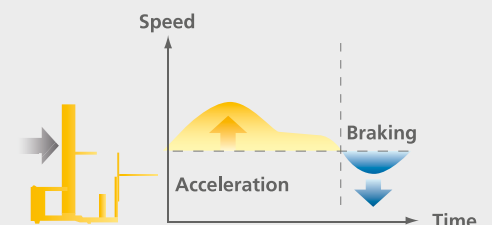
More performance, less downtime: energy recovery

Thorough engineering developments are standard at DAMBACH Lagersysteme. The Hi-Racker therefore offers maximum performance for minimum energy input. Powerful energy recovery is the key here, feeding energy back into the battery during every lowering and braking manoeuvre. In conjunction with the new, energy-saving, decentralised hydraulic system based on an 80 V concept, this means a much longer battery life. And what that means in practice is that in most cases two-shift operation is possible without a drop in performance, without a battery change.



And exclusive to DAMBACH: folding mast for fast, easy commissioning

Another new development from DAMBACH Lagersysteme and currently the only one of its kind in the market-place. There are no hydraulic lines on the new folding mast and so this design meets users' needs perfectly because with the mast folded, the Hi-Racker is just 1.90 m high and so can be easily transported in any standard HGV. And the folding mast also simplifies the setting-up of the Hi-Racker. It is easy to move it from one building to another because a Hi-Racker with folded mast easily passes through a normal industrial door. You no longer need a mobile crane for the setting-up work.





Meeting your needs exactly: storage and order picking

When used mainly as a high-reach truck, the Hi-Racker is fitted with a central control panel on which all controls are clearly laid out and easy to operate. The smooth electrical steering, the good view, the comfortable seat and the ample legroom all contribute to relaxed working conditions free from fatigue. That contributes to safety and prevents operator errors.

For order-picking tasks it is primarily the freedom of movement that is critical. Here, too, the Hi-Racker can boast excellent ergonomics with its split control panel. This leaves the working area unobstructed – no control panel interfering with the picking process on the collecting pallet. The free lift function takes the operator to the required working height and the folding seat creates additional working space.

The latest technology fitted as standard: RFID equals safety plus precision

Aisle coding with RFID (Radio Frequency Identification) has long since been standard for DMBACH. Compared to conventional magnetic coding, contactless identification of transponders enables numerous functions that make warehouse operations easier and more economic, especially in larger warehouses. Variable lifting height limits dependent on the warehouse mean greater safety, e.g. in the case of inconsistent warehouse geometries. Aisle detection and automatic storage place matching prevent incorrect storage. Aisle optimisation increases the throughput.

RFID positioning in various forms:

- Display of storage place number
- Manual approach to specified storage place
- Electronic job data transfer and semi-automatic approach to storage places

At a glance: compelling technical features

- Long-term security for your investments thanks to flexibility and modular design
- Can be adapted to different warehouse geometries by simply exchanging components
- Three-phase technology for fast acceleration and high speeds
- Energy recovery on all axles
- Decentralised variable hydraulics for precise control of manoeuvring axles
- Non-vibrating mast design
- Safer operation thanks to man-up technology
- Safe and fast thanks to exact guidance in the aisle via lateral guide rails or induction loops in the floor
- Easy commissioning and variable deployment thanks to folding mast
- Open mast uncluttered by hydraulic lines ensures good all-round view
- High degree of efficiency thanks to decentralised hydraulics with short lines
- 80 V system for high performance and longer battery life

DAMBACH Lagersysteme GmbH & Co. KG
Hardrain 1
76476 Bischweier
Germany
Tel: +49 (0)7222 9660-0
Fax: +49 (0)7222 9660-109
E-mail: info@dambach-lagersysteme.de
www.dambach-lagersysteme.de

Technical specification subject to change without notice

DAMBACH
LAGERSYSTEME