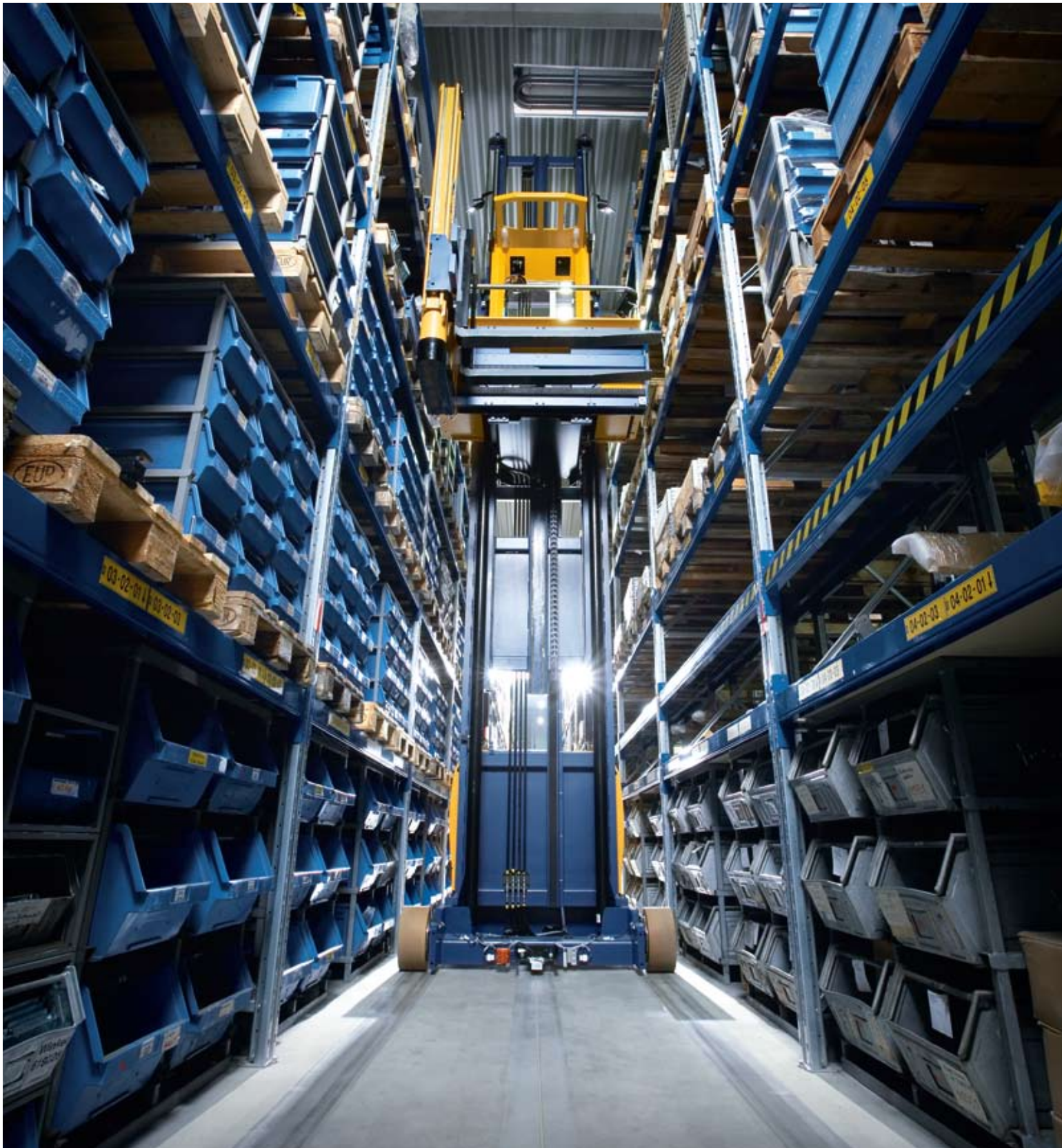




Efficiency and energy optimisation for narrow aisles:
Hi-Racker epc order picking stacker

DAMBACH
LAGERSYSTEME

High throughput rates in narrow aisles:
cut energy consumption, increase efficiency



Modern warehousing technology calls for innovative narrow-aisle trucks – like the DAMBACH Hi-Racker epc order picking stacker. More than 6000 DAMBACH narrow-aisle trucks in operation are proof of the impressive performance, reliability and flexibility right down to the smallest detail.

- Security for your investments thanks to good flexibility
- Optimum customisation thanks to modular design
- Efficiency thanks to energy recovery and low energy requirement
- Economy thanks to inexpensive, simple maintenance
- RFID technology
- Precision variable hydraulics
- Screwed load wheel axle
- Split control panel
- Extensive safety features
- Non-vibrating mast construction for high working heights

Standard fittings instead of options: the Hi-Racker epc 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 epc. 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
- Lifting mast with oblique roller guiding
- Adjustable end-of-travel damping of manoeuvring axles
- Dynamic three-phase steering motor

Built-in ergonomics: to prevent fatigue and lack of concentration

- Ergonomic operator cabin with sprung, individually adjustable, comfortable seat
- Infinitely adjustable control panel with integral display
- Direct programming of modified functions 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
- Emergency abseil device for leaving the cabin in an emergency
- Dead man switch and slack chain safety feature



The Hi-Racker epc lets you enter a new dimension of efficiency in order-picking as well as storage and retrieval. No other machine in this class achieves such an optimum combination of performance and efficiency. What that means for your everyday operations is 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. Storage heights of up to 14.5 m and lifting capacities of up to 1500 kg. That means all users will find a model that suits their requirements exactly. Optional, enhanced user functions complete the picture, e.g. RFID.



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

The Hi-Racker epc 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.

**Energy performance control:
more power – less downtime**

The epc in Hi-Racker epc stands for “energy performance control”, which means 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. Coupled with the energy-saving drive system this adds up to:

- longer operating times
- greater productivity
- environmental compatibility
- smaller, lighter batteries

In most cases two-shift operation is possible without loss of performance, without having to change the batteries.

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

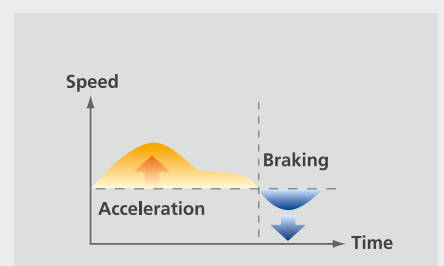
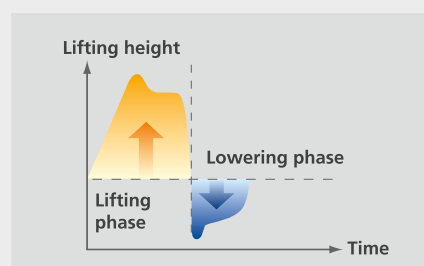
Aisle coding with RFID (Radio Frequency Identification) has long since been standard for Dambach. Compared to conventional magnetic coding, contactless identification of transponders enables numerous functions that make warehouse operations easier and more economic, especially in larger warehouses. Variable 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
- semiautomatic approach to 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
- Variable deployment thanks to load wheel axle with screw fitting (optional) – allowing changes at a later date
- Three-phase technology and variable hydraulics for fast acceleration and good speeds
- Especially precise and easy control of the manoeuvring axles thanks to position monitoring and variable hydraulics
- Non-vibrating mast construction for high working heights even in the narrowest of aisles
- Safe operation thanks to man-up technology – the operator is always at the height of the load
- On the apron, the Hi-Racker can be manoeuvred as required manually
- Safe, fast and precise thanks to exact guidance in the aisle via lateral guide rails or induction loops in the floor





Meeting your needs exactly: storage and order-picking

When used primarily as a high-reach truck, the Hi-Racker epc 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 without 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 epc achieves 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.

Variable load-handling devices: flexible and fast

— Telescopic forks
These permit very narrow aisles, determined only by the width of the load or guidance system. Pallets can be stored and retrieved sideways on either side without turning. Moreover, the work cycle is noticeably quicker than with swivel traverse forks.

— Swivel traverse forks
For maximum flexibility – pallets can be lifted sideways left or right, or in front. The integral free lift function helps to make full use of the available height. Superimposing the sideshift and rotation movements of the forks improves throughput.

You need even more flexibility?
No problem: the tines adjustment device can be used to accommodate different pallet dimensions.

Safety and maintenance: sturdy and robust

You're always on the safe side with a Dambach Hi-Racker epc. A plain text display warns of operator errors, for instance. Two-handed operation keeps the operator's hands out of the danger zone and a foot switch on the cabin floor brakes the Hi-Racker epc immediately if it detects the absence of the driver's weight.

The efficiency of our Hi-Racker epc in order-picking operations is also reflected in our service. All working parts are easily and quickly reached – under easy-to-open hoods. The design of and easy access to the driving unit, steering, control and hydraulics simplify maintenance – and any repair work that may be necessary. All modules can be rapidly and simply exchanged independently of one another.

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