

ORDER PICKING VEHICLES

**FOR SHEETS
AND TIMBER
PRODUCTS**



LOAD CAPACITIES FROM 0.5 TO 12 TONNES

www.hubtex.com

HUBTEX.

WE CREATE THE UNIQUE

EFFICIENT AND RELIABLE

Our customers especially appreciate HUBTEX vehicles when picking goods in narrow aisles, as they can be adapted precisely to the requirements of a warehouse.

When order picking, HUBTEX forklift trucks must meet the most diverse requirements: Large-volume timber products, sheets and profiles are transported very efficiently and reduce damages to the materials.

The industry expertise offered by HUBTEX makes it possible, time after time, to develop customer-specific solutions with special optimisation effects. Innovation and quality are the keys to success for HUBTEX.

Order picking vehicles for sheets and timber products

OVERVIEW OF SERVICES

All HUBTEX vehicles are specially manufactured forklift trucks which can be individually customised for use in your company.

VEHICLE OVERVIEW

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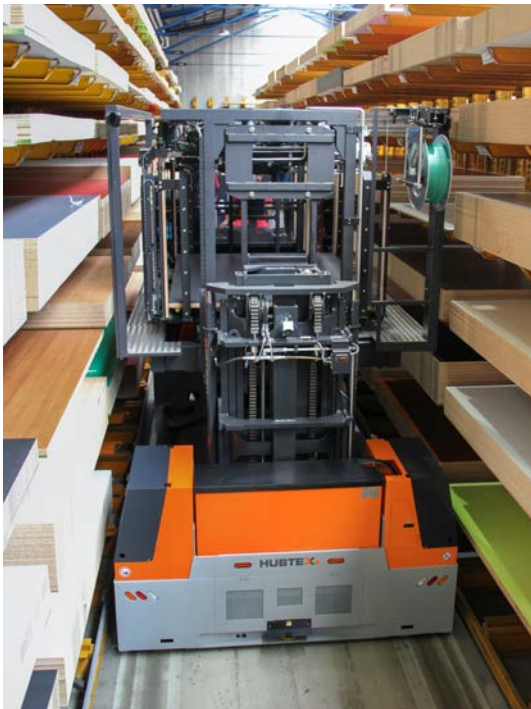


Product Range	KP	MK	VK	EZK	VacumaX
Material					
Operation (number of persons)					
Manual order picking	✓	✓	-	✓	✓
Semi-automatic order picking	-	-	✓	✓*	✓*
Stacking of complete packs	✓	✓*	✓	✓*	✓*
Dual-sided rack operation	✓**	✓**	✓	✓	✓
Weights					
Rate of turnover	✓✓	✓✓	✓✓	✓✓✓	✓✓✓

*) only possible with special equipment

***) only possible in transverse travel

Increased storage capacities – optimal utilisation



**TIME SAVINGS
OF UP TO 80 %**

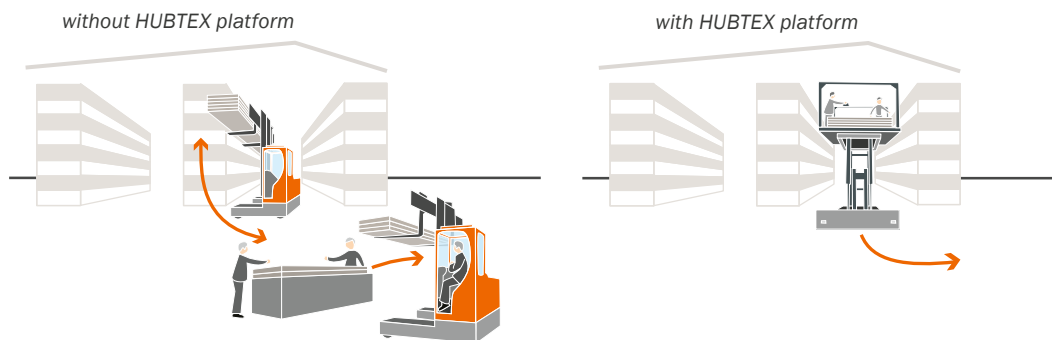
FAST, SAFE AND EFFICIENT

**REDUCED DAMAGE
TO GOODS,
FEWER BREAKAGES**

The use of HUBTEX order picking vehicles increases the efficiency of long and bulky loads in narrow aisles. In this process, HUBTEX follows the principle of bringing the operator to the goods. This reduces the amount of work and prevents damage to the goods.

SMALLER AISLE WIDTHS DUE TO ORDER PICKING VEHICLES

Long or heavy loads with load capacities from 0.5 to 12.0 tonnes
for large-volume loads



HUBTEX.



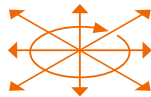
Multidirectional sideloader with detachable order picking platform

Multidirectional sideloader with detachable order picking platform

➤ *single or dual-sided rack operation*
*single-sided in narrow aisles/
 dual-sided in freely moving aisles*

➤ *All vehicle functions controlled from the platform*

➤ *Multidirectional steering*



Series	KP
Operation (number of persons)	1 to 2
Application	lightweight profiles
Load capacity (t)	1.5 - 7.0
Lift height (mm)	up to 10000
Aisle width (mm)	
➤ <i>Single-sided rack operation in narrow aisles</i>	Cantilever Length plus 1350
➤ <i>Dual-sided rack operation</i>	Load length plus 1000
➤ <i>Safety distance if positively driven</i>	150 per side
➤ <i>Safety distance when freely movable</i>	500 per side

The KP model can be used as a conventional electric multidirectional sideloader for stacking complete packs and for the order picking of individual customer orders with a detachable platform.

During the picking process, all functions are controlled from the platform. Lift truck and platform form one unit.

This order picking lift truck can be used for single-sided rack operation in narrow aisles as well as for dual-sided rack operations in freely moving aisles.

The removal of the completed pick is via a separate lift truck or via a transfer station.



PERFORMANCE DATA FOR ORDER PICKING ¹

- 10 to 15 sheets/order picking
- 350 to 400 sheets/day
- approx. 1850 sheets/week
- approx. 7400 sheets/month

¹) In this example, approx. 3 hours per day are required to restock the warehouse.

Two vehicles in one – a fully-fledged multidirectional sideloader and order picking vehicle.

Multidirectional sideloader with order picking equipment

- Order picking with vacuum suction device
- Fittings for detachable platform, alternative as integrated solution
- Order picking unit can be individually adapted to meet requirements
- Conventional electric multi-directional sideloader for stacking of complete packs



Series	VK
Operation (number of persons)	1
Application	Stacking and order picking of sheets of various materials which can be picked up using suction cups
Load capacity base appliance (t)	3.0 to 10.0
Load capacity vacuum suction device (kg)	max. 200
Lift height (mm)	up to 7500
Aisle width * (mm)	plus 1600
Safety distance ** (mm)	100 per side

* due to load depth or cantilever arm length ** if positively driven

The VK model can be used as a conventional electric multidirectional sideloader for stacking complete packs and for order picking individual customer orders with a vacuum suction device. The HUBTEX VK enables individual sheets to be vacuum lifted from the rack compartment and placed on the fork arms of the lift truck until picking of the order is completed. The completed customer order pick can then be loaded directly with the lift truck.



PERFORMANCE DATA FOR ORDER PICKING ¹

- approx. 70 sheets / order pick
- approx. 420 sheets / day
- approx. 2100 sheets / week
- approx. 8400 sheets / month

¹⁾ An average of 27 sheets are taken into account per order pick. Approximately 2 hours per day are taken into account for restocking the racking compartments.

➤ INTEGRATED OR DETACHABLE VACUUM SUCTION DEVICE

As an integrated version, the VK model has a telescopic suction device which is permanently installed on the vehicle and can be folded down for order picking. Alternatively, the truck can be equipped with a detachable suction device. This detachable version can also be picked up by various HUBTEX vehicles with pick-up preparation.

VACUMAX

No material damage
caused by vacuum cups



Order picking platform for doors



- *Fixed platform*
- *Individual lifting table*



Efficient picking of doors
on both aisle sides

Series	MK
Operation (number of persons)	1
Application	Stacking and order picking of doors and frames in pallet racks
Load capacity (t)	1.5 to 5.0
Lift height (mm)	up to 10000
Aisle width * (mm)	plus 400
Safety distance ** (mm)	100 per side

* due to load depth ** if positively driven

The stacking and order picking of doors and frames in pallet racks is the task of the MK model. This order picking platform is a conventional electric multi-directional sideloader for the stacking of complete packs and with a man-up cabin for the order picking of individual customer orders. The MK model has a fixed mast.



➤ OPTIONS

A lifting device for raising and lowering the goods to an ergonomic working height as well as telescopic forks for stacking and retrieving complete stacks of doors are optionally available.

The goods can be removed from the rack on both sides in the aisle without causing any obstruction.



Stacking and retrieval of complete packs



PERFORMANCE DATA FOR ORDER PICKING ¹

- 7 positions / order pick
- 150 positions / day
- 750 positions / week
- 3000 positions / month

¹ In this example, approx. 3 hours per day are required to restock the warehouse.



*In order to minimise the aisle width,
the vehicle width can be reduced in
line with the largest sheet depth.*

Electric two-sided order picking platform

The EZK models see themselves as pure order picking platforms. Whether in the 2-mast or scissor lift version; the order picking of profiles up to 8 m in length or sheet stock from 600 mm to 2100 mm deep is possible with these lift trucks. The goods can be easily removed from the rack on both sides of the aisle.

A load shifting device is available as an option for both models to facilitate the removal of the finished customer order pick with a separate lift truck.

➤ Two lift masts

- Low platform height
with minimum 460 mm at high lift height



➤ Scissor lift system

- Short chassis length
with maximum load length plus 600 mm driver station per side



Series	EZK
Operation (number of persons)	1 to 2
Application	Order picking of different load sizes with very large rate of turnover
Load capacity (t)	2.0 to 12.0
Lift height (mm)	up to 8500
Aisle width * (mm)	min. 2500
Safety distance ** (mm)	150 per side

* due to load depth ** if positively driven



➤ 2-MAST ORDER PICKING PLATFORM

The 2-mast version of the HUBTEX order picking platform is especially characterised by its low platform height. This results in advantages for handling the lower rack level.



➤ SCISSOR LIFT ORDER PICKING PLATFORM

In contrast to the 2-mast version, the advantage of the scissor lift version is its shorter overall length. This enables order picking platforms with a scissor lift system to be operated in much narrower spaces. Thus the width of the transfer aisle can be reduced.



➤ SCISSOR LIFT TABLE

To ensure the ergonomic order picking of goods, the HUBTEX order picking platform can be optionally equipped with a scissor lift table on the platform.

This allows the stacking height on the truck to be individually adapted, thus avoiding unnecessary bending by the operators.





➤ OPERATION

When operating the vehicle, the customer can choose between different versions. The truck can be equipped with one or two control stations. The version with two control stations per vehicle has the advantage of providing the best possible overview in each direction of travel. Furthermore, the operator can choose between two different configurations for the control station. Standing in the main driving direction or sitting with a view of the load (only in connection with personal protection equipment).

PERFORMANCE DATA FOR ORDER PICKING ¹

- 3 sheets / order pick
- 450 sheets / day
- 2250 sheets / week
- 9000 sheets / month

¹⁾ In this example, approx. 3 hours per day are required to restock the warehouse.

➤ *Telescopic tables for stacking and retrieval of complete packs*

➤ *Telescopic tables can be individually controlled optionally with 2- or 4-fold reach*

➤ TELESCOPIC TABLES

HUBTEX two-sided order pickers can be optionally equipped with telescopic tables for the transfer of the picked order. This enables a completed package to be passed on to a transfer station on both sides of the vehicle.





Two-sided order picker with vacuum suction device

The transport of high-quality sheet materials requires maximum precision. This is the only way in which retailers can ensure that the valuable materials arrive at their customers undamaged.

➤ **IN COMBINATION WITH THE TWO-SIDED ORDER PICKING PLATFORM ...**

... in the EZK series, the solution enables ergonomic removal of the sheets from the rack compartments. It is no longer necessary for employees to pull the goods out of the rack compartment onto the platform – **thereby reducing material damage to a minimum.**

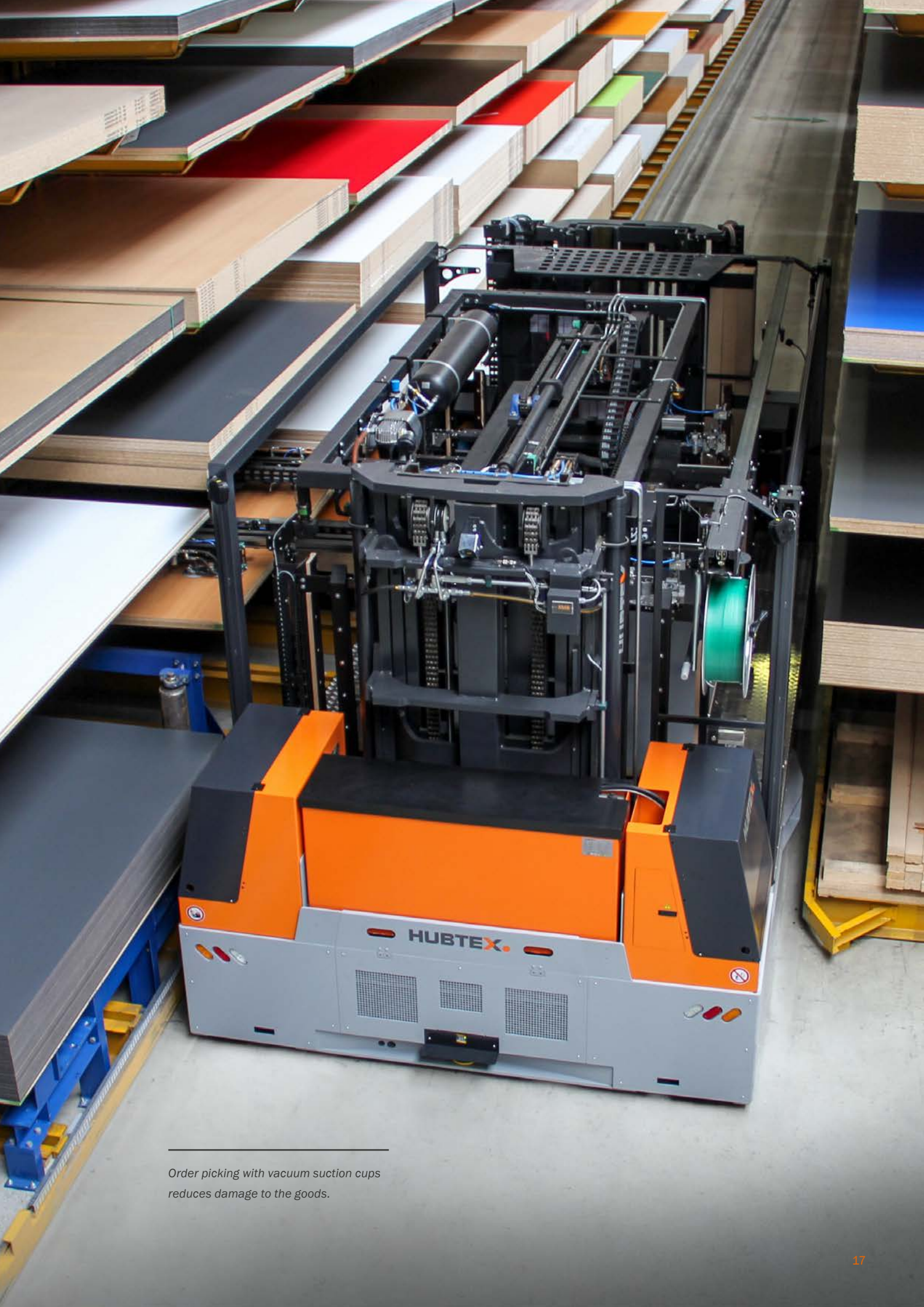


VACUMAX

➤ **EXPANSION BELLOWS SUCTION CUPS**

Several expansion bellows suction cups ensure damage-free order picking. If there is dust or other dirt on one of the sheets, it can be removed at the push of a button with the integrated air blow off device.





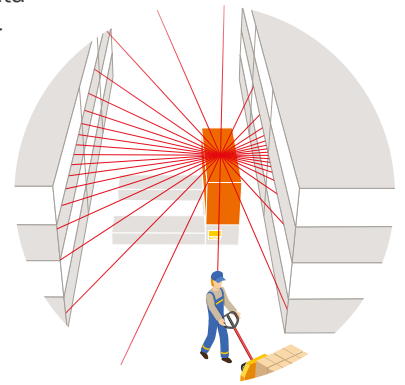
*Order picking with vacuum suction cups
reduces damage to the goods.*



New and innovative: laser navigation for narrow aisles

➤ GUIDANCE VIA LASER NAVIGATION

Object-based laser navigation uses the raw data from personal protection scanners or 2D laser scanners. The HUBTEX vehicle control system creates maps of the surrounding area based on the data obtained. The vehicle then identifies its own position on the map and is able to follow defined routes with an accuracy of up to ± 15 mm. The process takes into account changes in the environment.



➤ AUTOMATIC VEHICLE POSITIONING

Horizontal and vertical vehicle positioning is available as an add-on for laser localisation. The positioning of the rack compartment is determined by a horizontal and vertical positioning device and a touch panel in the cabin. Rack positioning is activated once the rack position is entered manually into the HUBTEX touch panel. By pressing lift on the joystick and pressing the accelerator pedal, the shelf is approached semi-automatically.

➤ WMS CONNECTION

The next stage to achieving automatic vehicle positioning is to connect the multidirectional truck to the Warehouse Management System (WMS). The target height for storage/retrieval is transmitted directly from the WMS to the automatic vehicle positioning system. The driver simply has to activate the lift function. When lifting, the fork automatically stops at the correct height.

Battery and charging technology

Selecting the appropriate battery and charging technology is key to ensuring energy and cost-efficient operation.

A wide range of different battery types and chargers is available for HUBTEX lift trucks. First of all, we analyse your application and recommend the right battery size based on this analysis. In addition to a wide range of different lead-acid batteries, all series of our multidirectional trucks are also available with lithium-ion batteries.

Lithium-ion battery



Lead acid battery



HUBTEX VEHICLES

ELECTRIC-MULTIDIRECTIONAL-SIDELOADERS › DIESEL-/GAS-FOUR-WAY-SIDELOADERS › MULTIDIRECTIONAL COUNTERBALANCE FORKLIFT › ORDER PICKING SYSTEMS › GLASSTRANSPORT SYSTEMS › HEAVY DUTY TRANSPORT VEHICLES › REACH TRUCKS › SPECIAL TRUCKS › SECOND-HAND-AND RENTAL EQUIPMENT

HUBTEX.

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HUBTEX MASCHINENBAU GMBH & CO. KG · Industriepark West · Werner-von-Siemens-Str. 8 · 36041 Fulda, Germany
Tel.: +49 661 8382-0 · Fax: +49 661 8382-120 · info@hubtex.com · www.hubtex.com