

E-PICK



Optimum picking with E-Pick

Efficiency increase of up to 300% and a tenfold increase in quality.

With E-Pick you can equip the entire warehouse, parts of it or expand your existing Pick by Light system, thus making the picking process faster, more efficient and reliable.

Your advantages

- ▶ High-quality product by the world market leader for internal logistics
- ▶ easy self-installation
- ▶ cost-effective entry-level solution
- ▶ performance increase of your warehouse output of up to 300%
- ▶ tenfold reduction of the error rate

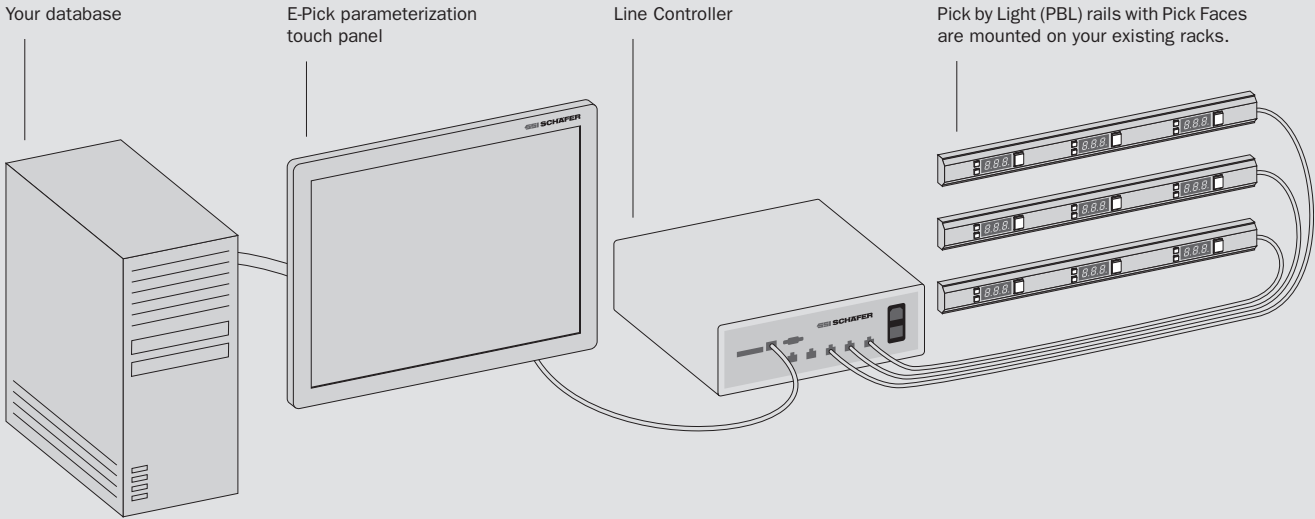
Technical data

- ▶ ideal for warehouses with up to 800 products
- ▶ connection to your database



Equip your warehouse with E-Pick and Pick by Light in a few steps

Effortlessly simple: The components are connected to your database by a cable.



CONNECTING E-PICK TO YOUR WAREHOUSE MANAGEMENT SYSTEM

E-Pick supports various options to query your order data.

Direct connection to the database

If you already have an SQL compatible database, you can release tables or views and query them directly with E-Pick. E-Pick supports the following SQL compatible databases: MS SQL Server, Oracle, PostgreSQL, MySQL and PervasiveSQL.

XML file

By means of the USB interface of the E-Pick touch panel you can load XML files with the order data to the terminal.

Web service

You can enable a web service that communicates with E-Pick to query order data.

Required product data

Product data contains information about the storage location and quantity of the product.

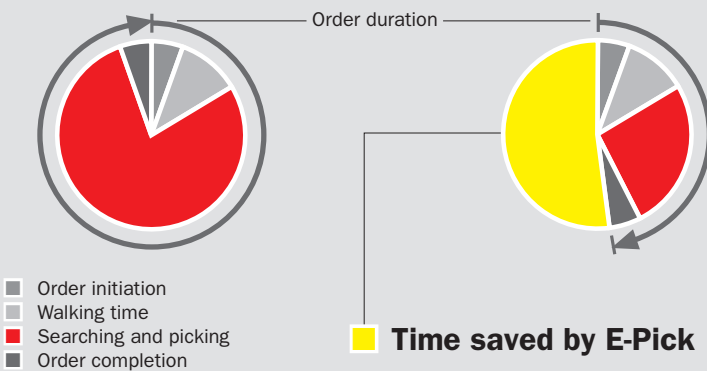
Required order data

Order data consist of order number, number of the order line and ordered product quantity. Additional information such as product names from your WMS can be optionally added to product data and order data.

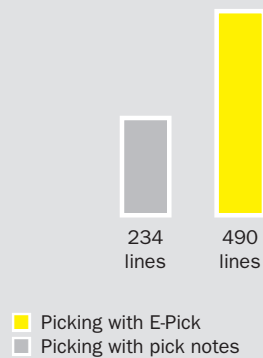
Lead time of picking with E-Pick and pick notes compared

Picking with pick notes

Picking with E-Pick



Comparison of picked lines per hour



How to increase the efficiency of your warehouse with E-Pick

- 1 Measure the width of the provision rack to be replenished and determine the number of storage locations per rack level. Select a pre-installed Pick by Light (PBL) rail with the corresponding quantity of Pick Faces – if the pre-installed rail is not available in the required length, take the rail next in size, and shorten rail and cover before installation. If you require more Pick Faces than already installed, order the additional quantity and add them to the rail. The cabling of the pre-installed rail is designed so that you can add up to 6 Pick Faces. The racks in the **sample warehouse** (see drawing below) are 990 mm wide. In block three and four there are 5 products in each shelf - we order 960 mm rails with 5 Pick Faces each. In block two there are 4 products in each shelf - 960 mm rails with 4 Pick Faces are ordered.
- 2 You can create customized Pick by Light rails with rail construction sets and the corresponding number of Pick Faces: Measure the total length of the picking locations (shelves, pallets etc.) and order the corresponding number

of construction set rails for the total length, cut the rail to the required length and equip them with Pick Face cables, end pieces and one Pick Face per storage location. **In block one of our sample warehouse** 5 pallet locations are to be equipped with one rail each. Rails of 0.75 m for each pallet location - in total 3.75 m, i.e. 2 construction set rails are ordered. Additionally five cables with end pieces and five Pick Faces are required.

- 3 A line cable is used to connect the Pick Faces to the Line Controller - up to 50 Pick Faces in each block can be supplied. **The sample warehouse** consists of four logical blocks that are supplied with one line cable in the respective length always in the bottom righthand corner.

- 4 The distributor cable serves to connect the line cable to the individual PBL rails on the shelves. **In our sample warehouse** blocks two, three and four are each supplied with a distributor cable.

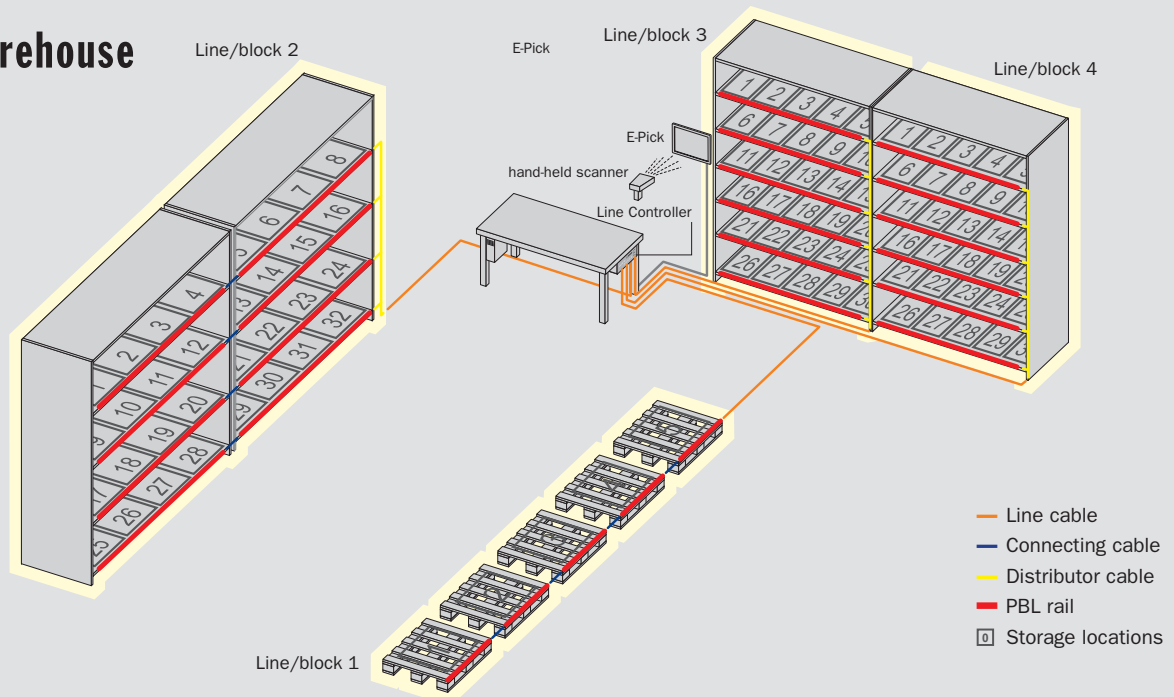
- 5 Connecting cables are used to enable the supply from one rail to the next one. **In the example** four connecting cables are used to connect blocks one and two.

- 6 Divide the number of line cables or blocks by 5 to get the required quantity of Line Controllers for your warehouse. **In our sample warehouse** we use one Line Controller.

- 7 Order an E-Pick touch panel. This touch panel is already supplied with a switch. Connect a maximum of 4 Line Controllers to the touch panel by means of the Ethernet switch. In our sample warehouse one E-Pick touch panel required. E-Pick, Ethernet switch and Line Controller each require a power supply of 115 or 230V.

- 8 A scanner may be used to automate the order start. **In our sample warehouse** a hand-held scanner is used.

Sample warehouse



Ordering made easy with the help of our sample warehouse

1. Provision of pre-installed PBL rails

Width shelves, pallets etc	Number of Pick Faces per PBL rail = max. quantity of products per shelf	Required quantity sample warehouse	your order-quantity	Order No.
1 - 1.25m	6	-		3306
1 - 1.25m	5	-		3305
0.75 - 1m	5	12		3205
0.75 - 1m	4	8		3204
0.2 - 0.75m	3	-		3103

2. Ordering PBL construction sets

Construction set element	Required quantity sample warehouse	your order-quantity	Order No.
PBL rail 2.5m	2		5002
Cable with end pieces	5		5101
Pick Face	5		4001

3. Ordering line cables and line extension cables

Cable per line/block for up to 40 Pick Faces	Cable length from Line Controller to the bottom righthand corner of the block	Required quantity sample warehouse	your order-quantity	Order No.
Line cable	< 1m	-		6001
Line cable	< 5m	4		6005
Line cable	< 10m	-		6009
Line extension	10m	-		6210

4. Ordering distributor cables

Distributor from line cable to the individual levels of one block	Required quantity sample warehouse	your order-quantity	Order No.
Distributor	2 to 3 levels	—	6103
Distributor	4 to 6 levels	3	6106

5. Ordering connecting cables for PBL rails

Connecting cable per rail	Distance between rails	Required quantity sample warehouse	your order-quantity	Order No.
Connecting	Up to 150 mm	4		6201
Connecting	Up to 1m	4		6202
Connecting	Up to 10 m	-		6210

6. Ordering Line Controllers

With one Line Controller you can control up to 200 Pick Faces, i.e. administer 2000 products	Required quantity sample warehouse	your order-quantity	Order No.
Line Controller for up to 200 Pick Faces	1		2005

7. Ordering E-Picks

An E-Pick serves to control up to 4 Line Controllers and thus to administer up to 800 products.	Required quantity sample warehouse	your order-quantity	Order No.
E-Pick	1		1015

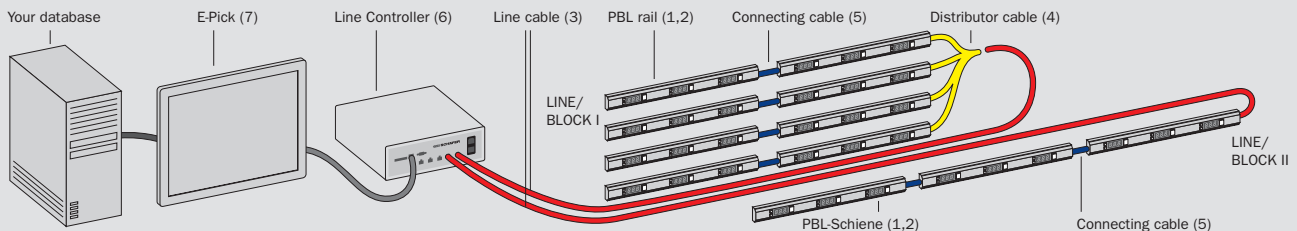
8. Ordering bar code scanners (optional)

Bar code scanner to be used at the workstation.	Required quantity sample warehouse	your order-quantity	Order No.
Hand-held scanner	1		7001


9. Ordering cable ducts (optional)

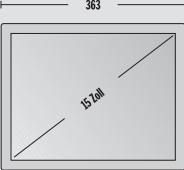
Cable ducts to safely lay line or extension cables.	Required quantity sample warehouse	your order-quantity	Order No.
Cable duct	2,000 mm long	2	8202


Order assistance



E-Pick components






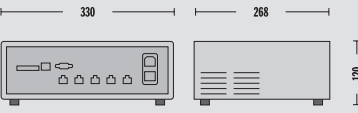


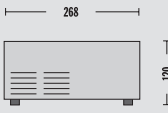
E-Pick

This package consists of a panel PC with pre-installed E-Pick software, in English and German, to facilitate effortless parameterization and equipment of your picking warehouse with PBL rails. Furthermore, a 2 meter network cable, a parametrizing cable and an Ethernet switch will be supplied. Two 115 or 230 V sockets are required to supply panel PC and switch.

Article	Dimensions W x H x D (mm)	Monitor		Order No.
E-Pick 15	363 x 285 x 60	15 inch		1015



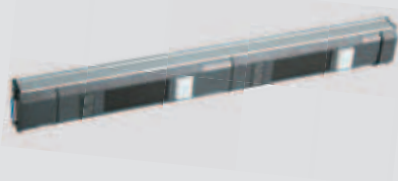


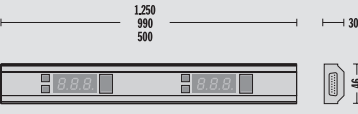


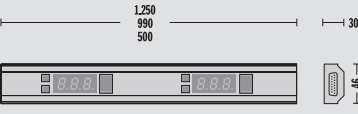
Line Controller

The Line Controller supplies the individual Pick Faces with power and facilitates communication between E-Pick and Pick Faces. A maximum of 200 Pick Faces distributed between 5 interfaces can be supplied. The Line Controller is supplied with a 2 meter network cable. A 115 or 230V socket is required for power supply.

Article	Dimensions W x H x D (mm)		Order No.
LC 5	330 x 120 x 268		2005







PBL rail pre-installed

It is available in three different lengths with a customized number of Pick Faces. Easy and fast installation. Including installation angle.

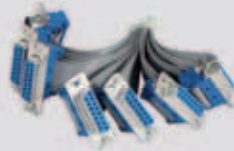
Article	Dimensions L x H x D (mm)	Color Pick Face	Quantity Pick Face		Order No.
PBL 122/6	1,220 x 46 x 30	Red	6		3306
PBL 122/5	1,220 x 46 x 30	Red	5		3305
PBL 96/5	960 x 46 x 30	Red	5		3205
PBL 96/4	960 x 46 x 30	Red	4		3204
PBL 72/3	720 x 46 x 30	Red	3		3103



Line Cable

A line cable in the corresponding length is required for up to 50 Pick Faces, it serves to connect Line Controller and Pick Faces.

Article	Dimensions Length (mm)	Order No.
LK 100	1,000	6001
LK 500	5,000	6005
LK 1,000	10,000	6009



Distributor cable

A distributor cable is required to connect the individual shelves with the line cable. This cable distributes the signal between 3 or 6 levels/shelves.

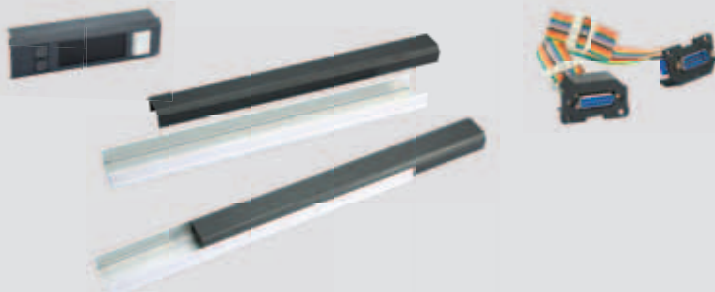
Article	Order No.
VK 3	6103
VK 6	6106



Rail connector/extension cable

Connecting cables are used to enable the supply from one rail to the next one. Additionally, these cables can be used to extend the line cable.

Article	Dimensions Length (mm)	Order No.
SV 15	150	6201
SV 100	1,000	6202
SV 1,000	10,000	6210



Rail construction set

It consists of the three components aluminium rail with plastic cover, cable set 2.5m with 9 Pick Face slots including end pieces and the corresponding number of Pick Faces. The Pick Face can also be used as extension of pre-installed PBL rails.

Article Length (mm)	Dimensions	Description	Order No.
SBS 1	2,500	Rail with cover	5002
SBS 2	3,000	Pick Face cable + end plug + installation angle	5101
SBS 3	150	Pick Face	4001



Scanners

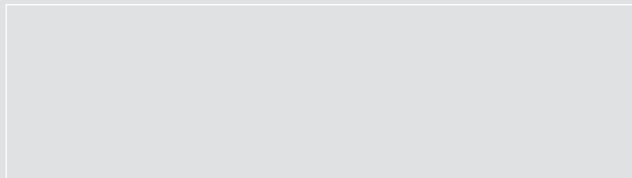
A scanner may be used to automate the order start. We supply hand-held wireless scanners which are connected to E-Pick through a USB interface.

Article	Order No.
GM4100	7001

Cable duct

Plastic cable ducts are used to safely lay distributor, line and extension cables.

Article	Dimensions L x W x D (mm)	Order No.
KK 250	2,000 x 40 x 40	8202



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