

COMPACT AUTOMATIC SMALL PARTS PICKING



Case Study

Gehe Pharma Handel GmbH Stuttgart (D)

Project: Delmenhorst (D)



Fast order handling by the K-Pemat even during high product density



S-Pemat and K-Pemat seen from replenishment side



Total automation thanks to state-of-the-art ejection technology of the K-Pemat

Project goals

- ▶ Equipment of a new wholesaler's new warehouse
- ▶ Trouble-free supply of over 250,000 pharmaceutical and peripheral products
- ▶ Federal supply of pharmacies in urgent cases even within a maximum of two hours
- ▶ Increase of delivery quality and automation of storage flows
- ▶ Increase of handling efficiency
- ▶ Reduction of staff and warehouse costs
- ▶ Networking of the picking system and the warehouse computers of the client
- ▶ Automatic handling of work preparation, note insertion, labelling, insertion of invoices, check weighing and lidding

Our scope of supply and services:

- ▶ System planning
- ▶ 2,873 conveyor running meters
- ▶ Conveyors
- ▶ Automates (9,600 K-Pemat and 3,360 S-Pemat channels)
- ▶ Trash conveyor
- ▶ Dispatch docks
- ▶ Convey 2005 Software
- ▶ Address note insertion, insertion of notes with automatic order assignment, insertion of invoices
- ▶ Special machines
- ▶ System control

Warehouse

Area 165 x 80 x 6m (L x W x H)
Loading equipment 20kg totes

Conveyor performance

Throughput 1,600/h
Max. conveyor speed 0,60 m/sec

Automated access to more than 250,000 articles

SSI SCHÄFER has planned and implemented a prime example of modern warehouse logistics for small parts at the Gehe Pharma Handel GmbH's branch: fast and reliable picking of even the smallest articles in a goods-to-man principle. The core of the overall concept consists of three dynamic racks where it is possible to store articles in numerous channels arranged next to each other and designed with separated storage and retrieval zones, thus allowing a trouble-free operation flow. A special feature of the supply system is the ejection technology of the three SSI Pemat automates: articles are not manually picked by the personnel but ejected according to orders by the automates' gravity ejectors which are activated by compressed air and at the S-Pemat by means of electronic ejectors. The results: improved delivery quality, increased handling efficiency, optimized space management and reduced staff and warehouse costs. Automated efficiency in every detail.



Automatic insertion of notes

Automatic picking

S-Pemat	2 automated lines 1,680 channels per line
K-Pemat	1 automated line 9,600 channels per line

Special stations and dispatch area

Special stations	checking, lidding machine, strapping machine, (throughput/m/h: 2,200) invoice insertion
Dispatch area	Number of dispatch levels: 2 Number of dispatch lanes: 82

Warehouse Management System

Computer type	IBM RS6000, pSeries 610
Operating System	AIX 4.3.3
Data base system	Oracle 8.1.6
WMS software	Convey 2005 Version 2.1



Automatic insertion of invoices



Lidding machine



Conveyor systems



- ▶ Dynamic Conveyor Systems for Small Parts
- ▶ Automatic Picking Systems
- ▶ Handling Systems
- ▶ Logistics Software
- ▶ Service and Maintenance