


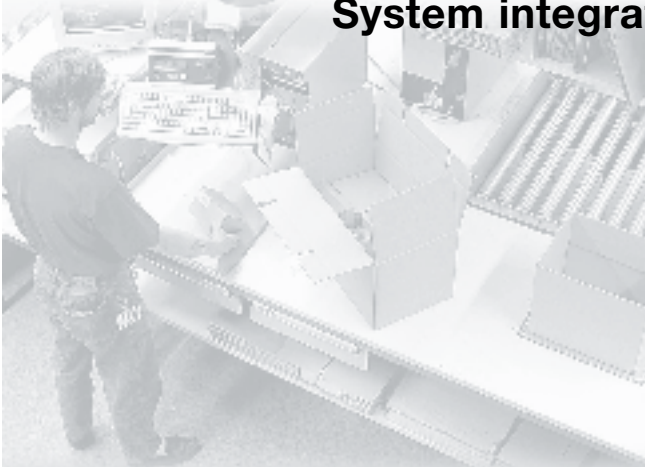


 **LFS 400**

 Warehouse Management by E+P

Olympus Optical Co. (Europa) GmbH:

System integration at a European level



EHRHARDT + PARTNER

Software Systems
for Warehouse Logistics

LFS 400 – Sophisticated Warehouse Integration

Customer

Olympus Optical Co. (Europa) GmbH controls its activities in Central and Eastern Europe and South Africa from its headquarters in Hamburg. The range of quality optical equipment is divided into two product areas: Scientific Products, comprising optical equipment for medicine and industry, e.g. endoscopes, microscopes, blood analysis equipment and digital cameras and accessories. Olympus has established itself as a market leader in its Consumer Goods division.

Requirements and Offers

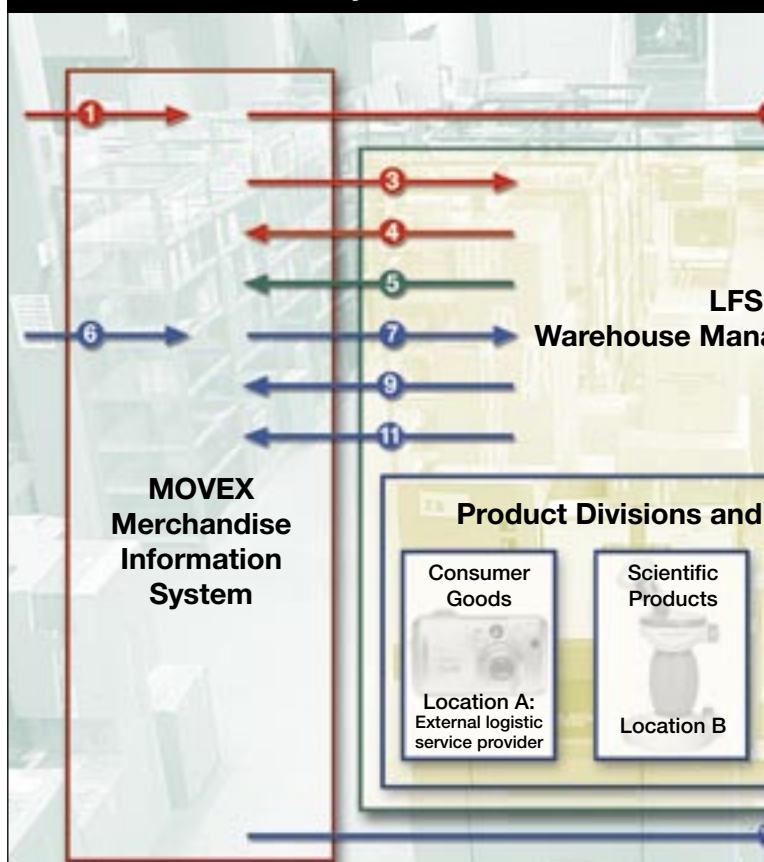
To sustain and improve the company's position in the market, the functions performed by the decentralized European warehouses were minimized and warehouse activities centered around several warehouses in Hamburg. In 1998, after consulting various companies, Olympus opted for Ehrhardt + Partner's LFS 400 Warehouse Management System. The contract was awarded on the strength of three main factors: software flexibility, the percentage of functions covered and Ehrhardt + Partner's expert knowledge of interfaces.

The Outcome

With the software installed at Scientific Products and Consumer Goods, the two central warehouses, and having established a successful working partnership with Ehrhardt + Partner, Olympus opted to extend its use of LFS to other divisions and locations. LFS 400 has since been installed in two further warehouses, Olympus Repair and Diagnostica. The possibilities the software offered for integration with other systems were particularly attractive. The holding and multiple client software offers standardized interfaces to most leading production planning, merchandise information and customer order systems. As Olympus has illustrated, changing from an external system to the Trans-European Movex merchandise information system was not problematic.

The project also required the connection to a Print-On-Demand system for the production of item-specific user manuals in 16 different languages. Furthermore, at Olympus, machines can be put away with a single item number even if the individual parts are stored right across the warehouse. The recording of equipment serial numbers at goods receiving ensures that the products can be traced through to the customer.

Connection of external systems to LFS 400 via standardized interfaces



Goods Receiving Processes

- 1 Goods receipt booked into MIS
- 2 Any duty goods reported to customs clearance system
- 3 Goods receipt reported to LFS
- 4 Putaway and confirmation to MOVEX
- 5 Permanent inventory management with duty status and country of origin. Cycle count data prepared for MOVEX



Figures, Data, Facts

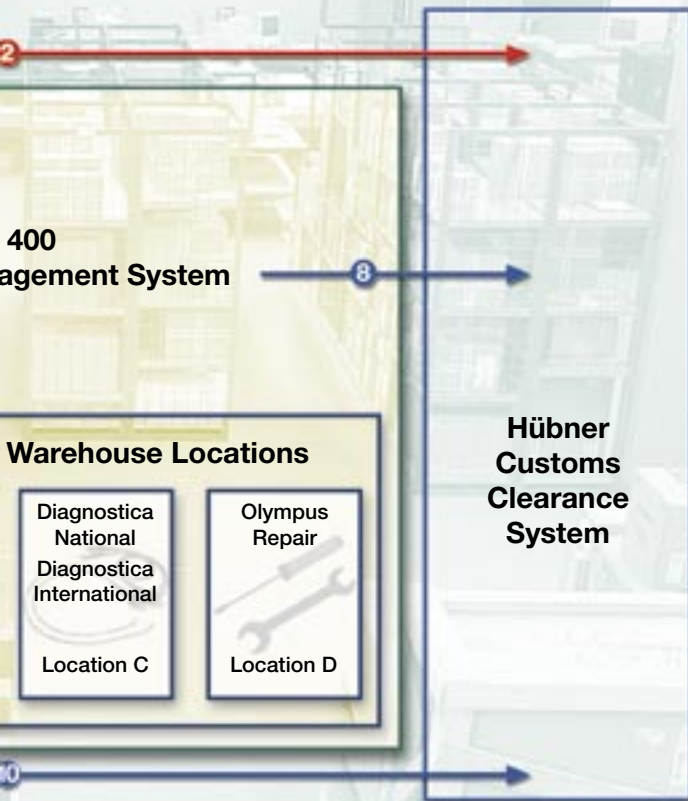
OLYMPUS

THE VISIBLE DIFFERENCE

Olympus Optical Co. (Europa) GmbH

European HQ:	Hamburg
Product Divisions:	Scientific Products (microscopes etc.) Consumer Goods (cameras etc.) Diagnostics (medical equipment) Olympus Repair
Warehouse Locations:	Wendenstraße 14-18 20097 Hamburg Billwerder Ring 19 21035 Hamburg / Allermöhe external logistic service providers
Warehouse Type:	Pallet warehouse, ca. 6,100 pallet bins Automated small parts warehouse ca. 13,300 container bins Floor storage bins Consolidation warehouse Open duty warehouse ca. 13,700 m ²
Warehouse Area:	Teklogix ca. 40 devices
RF Equipment:	Connection to MOVEX
Interfaces:	Connection to Print-On-Demand server Connection to automated small parts warehouse
Number of Employees:	over 3,200 across Europe.

Automated interfaces



Goods Dispatch Processes

- ⑥ Customer order recorded in MIS
- ⑦ Availability check in MIS and release of pick order
- ⑧ Checking of duty goods stock by LFS, or change of uncleared goods to cleared goods
- ⑨ Pick message to MOVEX with duty status
- ⑩ Message from duty goods to customs clearance system
- ⑪ Loading confirmation sent to MOVEX



EHRHARDT + PARTNER





Project Data

Project phase 1:

Contract date:

SRD:

Programming:

Go-Live:

LFS implementation with connection to old merchandise information system

January 1998

May 1998

August 1998

January 1999

Scientific Products and Consumer Goods warehouses/divisions

Project phase 2:

New release LFS 400, connection to new merchandise information system Movex

Incorporation of new product lines

Connection to further warehouse locations

October 2001

SRD:

February 2002

Programming:

May 2002

Go-Live:

Olympus Diagnostica and Repair warehouses/divisions

LFS 400 modules employed:

- Basic module
- Replenishment level
- Level zero cycle counting
- Statistics
- Stacker crane control system
- Drop locations
- Packing station processing
- Interfaces to external systems
- Quality control
- Public warehouse services accounting
- Work packages
- Label printing
- Connection to automated small parts warehouse

LFS 400

Warehouse Management by E+P

1206

The companies of the E+P Group



EHRHARDT + PARTNER

Boppard-Buchholz, Germany



**Informática y Gestiones
Logísticas, S.L.**

Figueres, Spain



**INSTITUT FÜR ANGEWANDTE
WAREHOUSE-LOGISTIK**

Boppard-Buchholz, Germany

Ehrhardt + Partner GmbH & Co. KG · Software Systems for Warehouse Logistics

Alte Römerstraße 3 · D-56154 Boppard-Buchholz · Germany

Telefon (+49) 67 42 - 87 27 0 · Telefax (+49) 67 42 - 87 27 50

E-Mail: info@ehrhardt-partner.com · www.ehrhardt-partner.com

