



**LTW**  
Intralogistics  
Engineers of Flow

### Warehouse logistics planned in EPLAN Electric P8

Whether it's delivering frozen pizzas, unassembled furniture or engine blocks, modern warehouse logistics rely on the seamless flow of goods from receiving to storage to shipping. The sophisticated handling systems inside the building, often fully or partially automated, have to be fast, efficient, reliable and require little maintenance while optimizing space utilization right up to the ceiling. LTW Intralogistics GmbH, with headquarters in Wolfurt in western Austria, is one of the world's leading manufacturers of warehouse handling technology – intralogistics – and represents itself as the “Engineers of Flow”, providing everything from stacker cranes to fully automated, high bay storage-and-retrieval systems.

*efficient engineering.*

“The complexity of major installations, in which all drives are equipped with asynchronous servomotors, is a major reason why LTW now designs in EPLAN Electric P8. The number of electrical data points can run into the thousands. The engineering package can comprise over 3,000 pages of documentation.”

# HIGHEST

quality documentation

For customers, suppliers



For LTW and its customers, warehousing in the age of internet-based commerce has evolved from a pure focus on space utilization to the science of making the most efficient and flexible use of the least capacity required to assure quick and accurate transshipping. For high-bay warehouses, LTW provides complete, customized solutions that can feature automated lifting stacking and conveyor systems. LTW functions as the systems integrator, handling planning, programming and building of its signature stacker cranes and other load-moving systems while buying most of the hardware content from its vendor network. It designs and manufactures the control systems, including the electrical network, PLC programming and performs all assembly functions.

## Electrical engineering as a factor for success

LTW adopted EPLAN Electric P8 in 2007, upgrading from a less capable customized program. It recognized EPLAN's many productivity enhancing features for the individual user, but also the great potential to improve the quality and flow of data to customers and vendors, even its own installers and technicians.

## Shows as single, integrated system

One such upgrade was EPLAN Electric P8's "ability to present design content as a single, integrated system; that goes for the power supply, to the distribution of all the drive components, to the PLC layout," says Peter Vogel, who heads the electrical design group at LTW in Wolfurt. That's especially useful for installers and service technicians. Furthermore, in EPLAN, the terminal markings and connections are generated directly from the electrical circuit diagram "which facilitates the job of assembling these complex systems by eliminating a source of design errors" that in the past, often would slip through until they confronted the installers in the field.

## Customers' documentation kept up to date

"Another goal in selecting EPLAN", adds Peter Vogel, "was to provide the highest quality of documentation for further processing, particularly in assembly and maintenance, and to make that available to our customers and (vendor) partners. Choosing EPLAN – the market leader – obviously proved to be a big advantage for them." LTW later adopted redlining, a complementary feature introduced with Version 1.9 of EPLAN Electric P8 in 2008. Redlining allows users to convert all documentation to PDF format for review by customers. The modifications the customer wants can be re-imported from the PDFs as graphic elements and integrated into the project with ease. PDF comments are displayed in a navigator with a direct jump function into the diagram. When the EPLAN user decides to incorporate a modification, the program does it at once and all project schematics and lists are updated automatically.



# UPDATES

made  
simple

## Redlining helps keep documentation package up-to-date

That's a huge time-saver for LTW considering that in large, integrated warehousing systems all drives are equipped with asynchronous servomotors, which can make for several thousand data points and a document package exceeding 3,000 pages. Redlining also allows the transfer and incorporation of modified data from the manufacturing and assembly space back into that package so LTW is providing customers, sub-contractors and service technicians with documentation that's truly up to date. "This provides us with a reliable tool to provide the customer with fully updated documentation that reflects the actual state of the installation," says Vogel. "That makes the technicians' work in the field much easier."

## Parts management supports eCl@ss

EPLAN Electric P8's database-centric architecture offered LTW tangible productivity benefits in managing more than 10,000 listed content items. EPLAN Electric P8's advanced macro-creating capability makes it easy to archive and re-used frequently used design content rather than have to key in all the data manually each time. Components imported from suppliers' catalogues can be converted into macros quickly and easily. EPLAN parts management also supports the international product and classification systems such as eCl@ss that creates standardized terminology for the description of technical goods and services for suppliers and their customers.

## Work sharing in EPLAN helps meet demand

Peter Vogel even found a unique way with EPLAN to reach outside his group for help managing work backlogs. Vogel's group is located in the same building as the electrical engineering team of LTW's parent company, Doppelmayr Cable Car. Doppelmayr electrical engineers also use EPLAN so he "borrows" their staff to help out when necessary and "lends" his own to assist Doppelmayr designers when they have a similar need. It's another example of EPLAN flexibility he says he would not wish to give up.



Making goods  
flow

# SUMMARY

LTW Intralogistics uses EPLAN Electric P8 to give it superior design productivity for its complex automation systems, including state-of-the-art document management capabilities. Tools like EPLAN Electric P8's redlining function greatly accelerate and simplify the job of incorporating customer-required project modifications or changes made by the manufacturing or customer service side. That way, each customer's project documentation – a package which can run into thousands of pages – is always up to date, reflecting subsequent component swaps or design modifications. That, in turn, makes the work of installers and service technicians that much easier and straight-forward.

Find out more about LTW at [www.ltw.at](http://www.ltw.at)

efficient engineering.



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