



**Würth International AG**  
Fastening and assembly technology

MLOG has carried out numerous Greenfield installations and refurbishment projects across Europe for the Würth Group. One example is MLOG's extension of the high-bay warehouse and conveyor system at the company's Swiss logistics centre.



**Toyota**  
Automotive vehicles

Toyota has a reputation for high quality and the most modern production processes. MLOG brought their automated high-bay warehouse up-to-date through a comprehensive refurbishment of drives and control systems without restricting on-going operations at their Cologne site.



**Procter & Gamble**  
Consumer goods industry

This global corporation and MLOG are united in their pursuit of quality. Under the strict requirements of P&G's global quality assurance system, MLOG completed an eight-aisle extension of the group's Marktheidenfeld distribution centre.

Competence based on experience

## Customers and references

For four decades, companies throughout the world have placed their trust in the experience of our staff and the quality of our products and services. We have demonstrated our expertise in over 800 successfully completed projects across our three business divisions; Greenfield installations, Refurbishment and After-sales service. The following list provides only a small selection. You can obtain further insight into our clients and access other interesting project reports at [www.mlog-logistics.com](http://www.mlog-logistics.com).

Further references are available from: [www.mlog-logistics.com](http://www.mlog-logistics.com)



**Ludwig Schokolade**  
Luxury food industry

MLOG increased the dynamics and availability of the Saarwellingen logistics centre for this manufacturer of legendary chocolate brands. The entire refurbishment took place without restricting the continuous operation of the facility.



**Renk AG**  
Drive technology

Plant availability plays an important role for this globally renowned manufacturer of special gears, drive technology components and inspection systems. Thanks to MLOG's flexible refurbishment service, this was guaranteed during every phase of the project.



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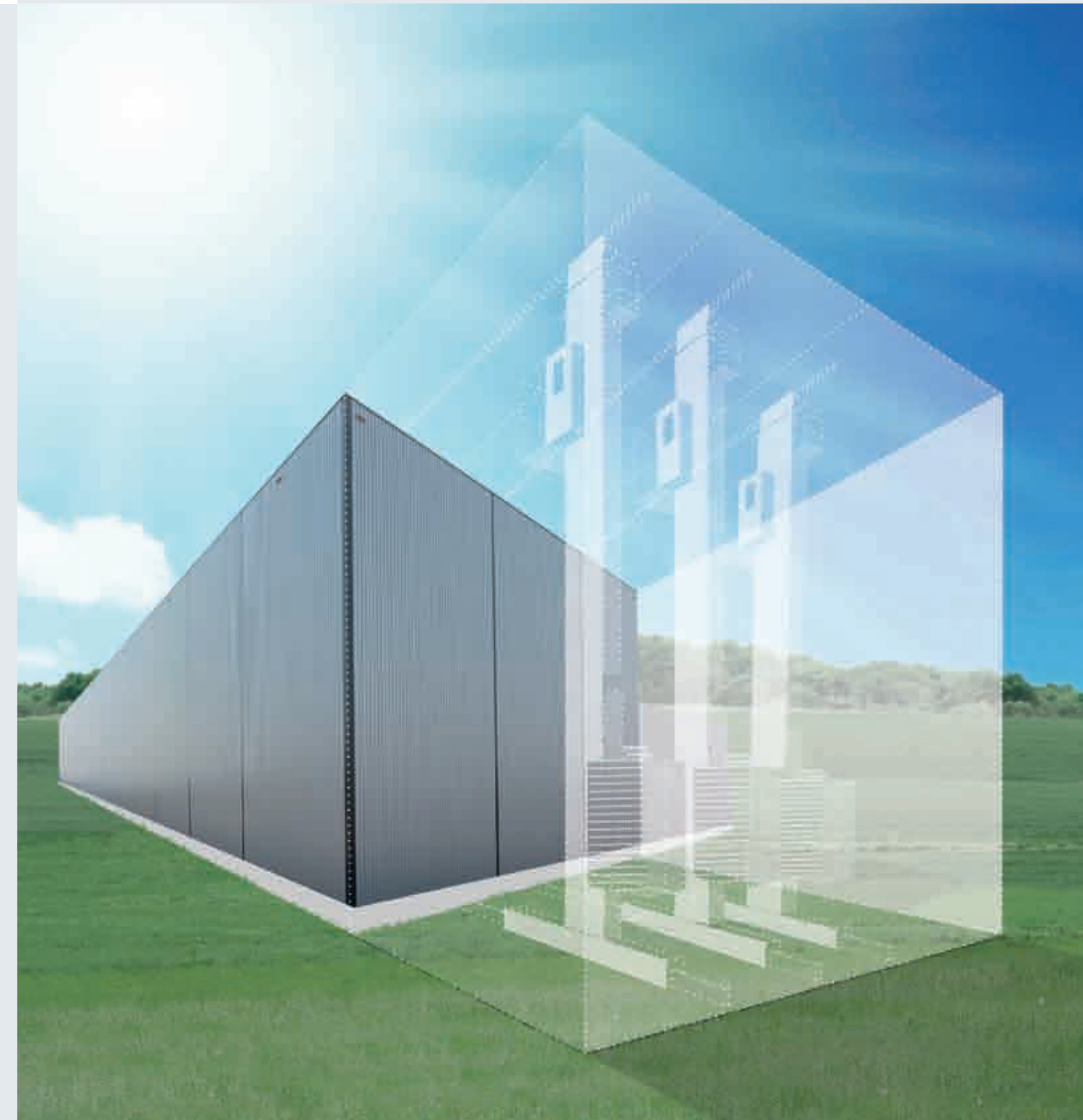
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## Refurbishment

Upgrading to state-of-the-art technology during continuous operation





Refurbishment services from MLOG:

## Keeping your warehouse up to speed

A modern automated warehouse employing state-of-the-art technology is accurate, energy-efficient and highly responsive. On the other hand, outdated or incorrectly specified installations are prone to frequent malfunction, can become expensive to operate and maintain, and will ultimately restrict the growth of your business. A professional refurbishment therefore, will rapidly pay for itself. The essential requirement: refurbishment should be precisely customised to suit the actual condition of your existing installation with the ultimate operation tailored to your specific needs.

The MLOG refurbishment service begins with analysis. A precise investigation of your warehouse, the “MLOG Installation Survey”, is carried out before any action is taken. From this basis we work with you to plan a customised programme of modernisation which may be implemented during on-going operation, ranging from the replacement of individual components through to the thorough refurbishment of the entire installation and the optimisation of processes and operating sequences.

### Analysis and benchmarking

## Objective installation survey

With MLOG you will benefit from the latest technologies applied across your entire material handling system, thus ensuring improved performance and elimination of the symptoms and causes of operational downtime. In a thorough survey, a precise snap-shot of the condition of your installation is generated

based on objective criteria which may be compared with your requirements profile. All information is then analysed in detail resulting in a refurbishment concept which, once implemented, will bring your installation rapidly and economically back up-to-date.

- **Objective analysis of installations, processes and operating sequences**
- **Innovative diagnostic tools**
- **Individual assessment**
- **Benchmarking**

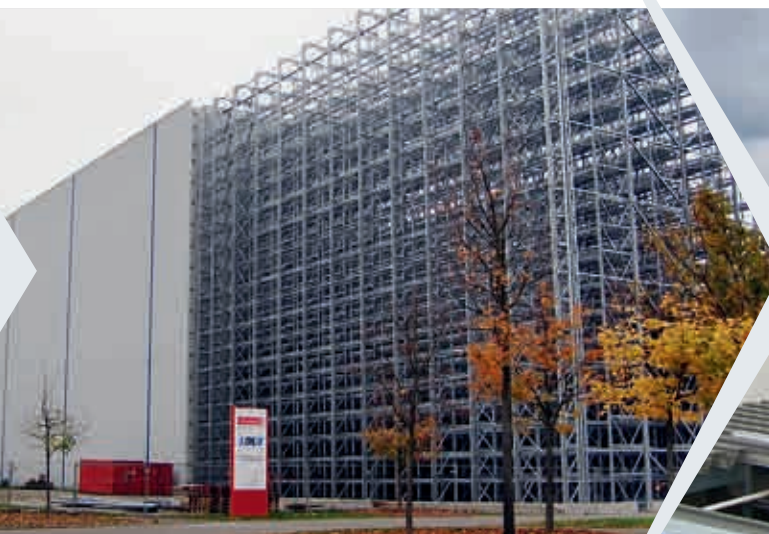
### Realisation and implementation

## Economical integration with existing facilities

Good planning alone is not sufficient to ensure that the refurbishment process is applied exactly where necessary whilst unaffected areas remain intact. Experience, expertise and the right instinct is required, which can only be gained through years of implementing hundreds of successful projects. The MLOG experts have acquired precisely this experience.

Whether it involves replacement, expansion or complete refurbishment; we guarantee short installation periods, seamless integration with the existing system and a technically perfect result. Our in-house production facility, in which all major components are individually manufactured, also contributes to this objective.

- **Optimum precision**
- **Expertise gained from hundreds of projects**
- **Seamless integration with your existing facility**
- **Short installation periods**
- **Installation during on-going operation**



In the planning of refurbishment operations, target and actual variables can be objectively adjusted and the potential for optimisation identified (far left). Left: Extensions through refurbishment create additional storage capacity. Right: Bringing new storage and retrieval machines into the existing rack structure. Modern visualisation systems can be operated almost intuitively to introduce transparency to plant operation (far right).

### Planning and consulting services

## Tailor-made refurbishment solutions

The right preparation saves money during implementation and allows system modernisation to be completed during continuous operation without restricting your business. We therefore jointly define with you the objectives and strategy, schedule and milestones prior to each installation.

Through our intensive efforts during the initial project phases we aim to introduce certainty and transparency to our planning, and a specific sequence for the precise coordination of activities so as to provide an installation that runs perfectly and that matches your company's requirements precisely.

- **Individual and personal consultation**
- **Transparent, fully planned budgets**
- **Minimum downtime**
- **Maximum economic efficiency**
- **Customised solutions**

### Training and after-sales service

## Services by professionals for professionals

Each installation is only as good as the people who operate it, so intensive training of your staff in the use of the new technology is therefore an integral part of our service. Furthermore, individual training sessions or group seminars can also be arranged.

Over the long term we guarantee smooth operation through continuous updates, as well as offering a spares and wear-parts supply service inclusive of all third-party components. After all, the best installation ultimately requires your minimum attention.

- **Intensive training by qualified technicians**
- **On-site seminars**
- **Telephone hotline and helpdesk**
- **Spare parts service from a single source for our own and third-party components**

