



Logistics

Efficient Intralogistics: Custom Solutions for Demanding Parcel Handling Systems

A globally leading general contractor in intralogistics faced a complex challenge: the existing parcel handling system needed to be more powerful, compact, and resource-efficient.

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Challenge

- **Limited Space:** Develop a compact solution that provides high functionality and performance density despite minimal available space.
- **Maintenance- and Cleaning-Friendly Design:** Design in line with hygiene standards and easy accessibility for maintenance and cleaning.
- **Integration of Energy-Efficient Technologies:** Select and use resource-saving components to reduce energy consumption during operation.
- **Seamless Integration into Existing Systems:** Adapt the solution to existing plant structures without interfering with ongoing processes.

The goal was to implement bespoke solutions that offer maximum efficiency with minimal resource use and allow smooth coordination with end customers and partners.

Solution

In close cooperation with the general contractor, METZEN developed a custom system for handling parcels such as cartons and containers. The solution combines compact construction, maintenance-friendly design, and simple cleaning – ideal for confined spaces. Energy-efficient manufacturing technologies further reduce resource consumption. Close coordination with all project stakeholders enabled seamless integration into existing intralogistics systems and led to noticeable efficiency gains in operations. The solution impressed with:

- **Compact, Space-Saving Designs for Restricted Logistics Environments:** Intelligent design and modular components create a system that can be efficiently integrated even in tight spaces – without compromising performance or accessibility.
- **Energy-Saving Manufacturing Processes:** Modern technologies and optimised processes reduce energy consumption during production and contribute to the overall system's sustainability.
- **Maintenance-Friendly and Cleaning-Optimised Design:** Smooth surfaces, easily accessible components, and well-planned access points allow quick cleaning and simple maintenance – ideal for continuous operation in demanding logistics environments.
- **Precise Integration into Existing Intralogistics Systems:** The solution was perfectly aligned with existing structures, ensuring minimal disruption of workflows and seamless interface handling.

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Result

The project highlights METZEN's technical expertise in bespoke solutions for demanding logistics requirements. Custom systems measurably increased efficiency and performance. Compact designs and energy-efficient processes optimised space utilisation and reduced resource consumption. Seamless integration and close coordination ensured smooth operations.

- **Significant efficiency and performance improvements** in intralogistics systems through precisely tailored, practical solutions.
- **Individually customised concepts** fully meet specific customer requirements and create long-term added value.
- **Compact, space-saving designs** allow optimal use of limited areas.
- **Energy-efficient manufacturing processes** reduce resource consumption and support sustainable operations.
- **Seamless integration and close coordination** ensure smooth workflows and rapid implementation during ongoing operations.

Project Conclusion

Thanks to its high innovation capability and solution-oriented collaboration with partners, METZEN sets new standards in parcel handling. The project demonstrates how precision, compactness, and energy efficiency can achieve sustainable success in intralogistics.

Discover how METZEN can optimise your logistics processes – contact us today!

Highlights

- Development of highly specialised, customer-specific solutions for handling parcels (containers, cartons).
- Focus on efficiency, ease of maintenance, and simple cleaning.
- Compact, space-saving designs, ideal for restricted logistics environments.
- Use of energy-saving manufacturing processes to conserve resources.
- Seamless integration of solutions into the overall project through close coordination with partners and end customers.
- Significant improvement in efficiency and performance of intralogistics systems.
- Confirmation of METZEN's high expertise in developing bespoke solutions.

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