CASE STUDY (1)

New Warehouse Set-up and Operations Launch

Industry: Automotive *Location: Czech republic*

Client Situation, Scenario:

- The client produces interior plastic components delivered either as Tier 1 supplier directly to carmakers (Audi, BMW, VW, JLR, Skoda, Porsche), or as Tier 2 supplier to various Tier 1 subjects (IAC, LEAR, Faurecia, Rehau, etc);
- The client ran storage logistics in a manually controlled warehouse (old-schooled and not connected systems, paper-driven transactions, clumsy process hierarchy); Unintended SKUs substitutions, delayed or missed deliveries, customer`s claims and fines led to a distorted processes managed ad-hoc after a problem had arisen;
- The main challenge was to spread newly adopted processes and workflow standardisation over traditionally thinking departments involved in the project. The modern standards and control were often considered as losing of flexibility, previously preferred in each particular task of the internal procedural chain.

Project Aim and Goals:

The project embraced several sub-projects and efforts and contexts:

- Investigate a potential to streamline information and goods flow control between Ops departments (IT systems, Master data, Production, Dispatch, Orders processing, QA);
- Redraw and launch entire set of intralogistics processes and activities aiming to implement a modern facility design, supported by state-of-the art logistics technologies;
- Launch a newly built warehouse operations with all upgraded processes, equipment, tools, and techniques, that all adopted entirely from scratch;
- Manage fluent goods and procedures transition from old warehouse to the new one;
- Supervise the new warehouse operations for certain period after going live.

Approach & Solution:

- Mapping and auditing all operations processes including Value stream;
- Initial data analysis – volumes, packaging, frequencies, customer`s requirements, inventory segmentation, as-is performance, future growth ratio prediction;
- Warehouse layout creation and tuning in accordance with volumes and flows, aiming to provide a tailored solution best fitted to client`s needs;
- Benchmarking and later sourcing of suppliers of critical technologies and equipment.

Project Outcomes and Results:

- Very Narrow Aisle rack system design operated with WMS-navigated semi-automated man-up forklifts planned, tested, fine tuned, and adopted;
- Rack system supplier tendered, racks layout customized to accommodate a large number of different pallet types and sizes utilising the building volume and space;
- Handling and manipulation (MHE) technology needs considerations, MHE technology supplier tendered (VNA system-navigated man-up forklift trucks)
- WMS supplier tendered, successfully implemented as a tailor-made tool, customised for the client’s process map;
- ERP system functionality upgraded and connected with the WMS, allowing automated transactions posting based on messages uploaded from the WMS;
- Fully functional warehouse of 8.640 ppl (EUR pal standard) capacity delivered.

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CASE STUDY (2)

New Warehouse Set-up and Operations Launch

Industry: Automotive *Location: Czech republic*

Old Warehouse

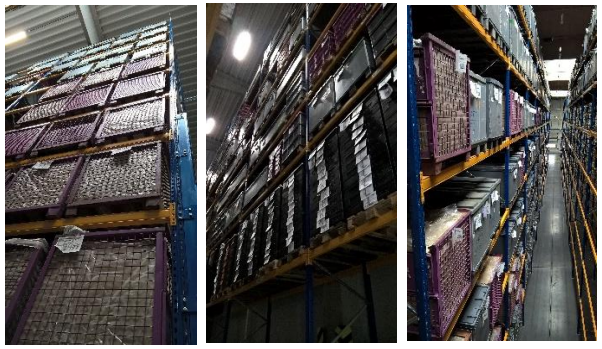
Storage area:

Dispatch area:

Goods handling:

Loading area:

New Warehouse



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