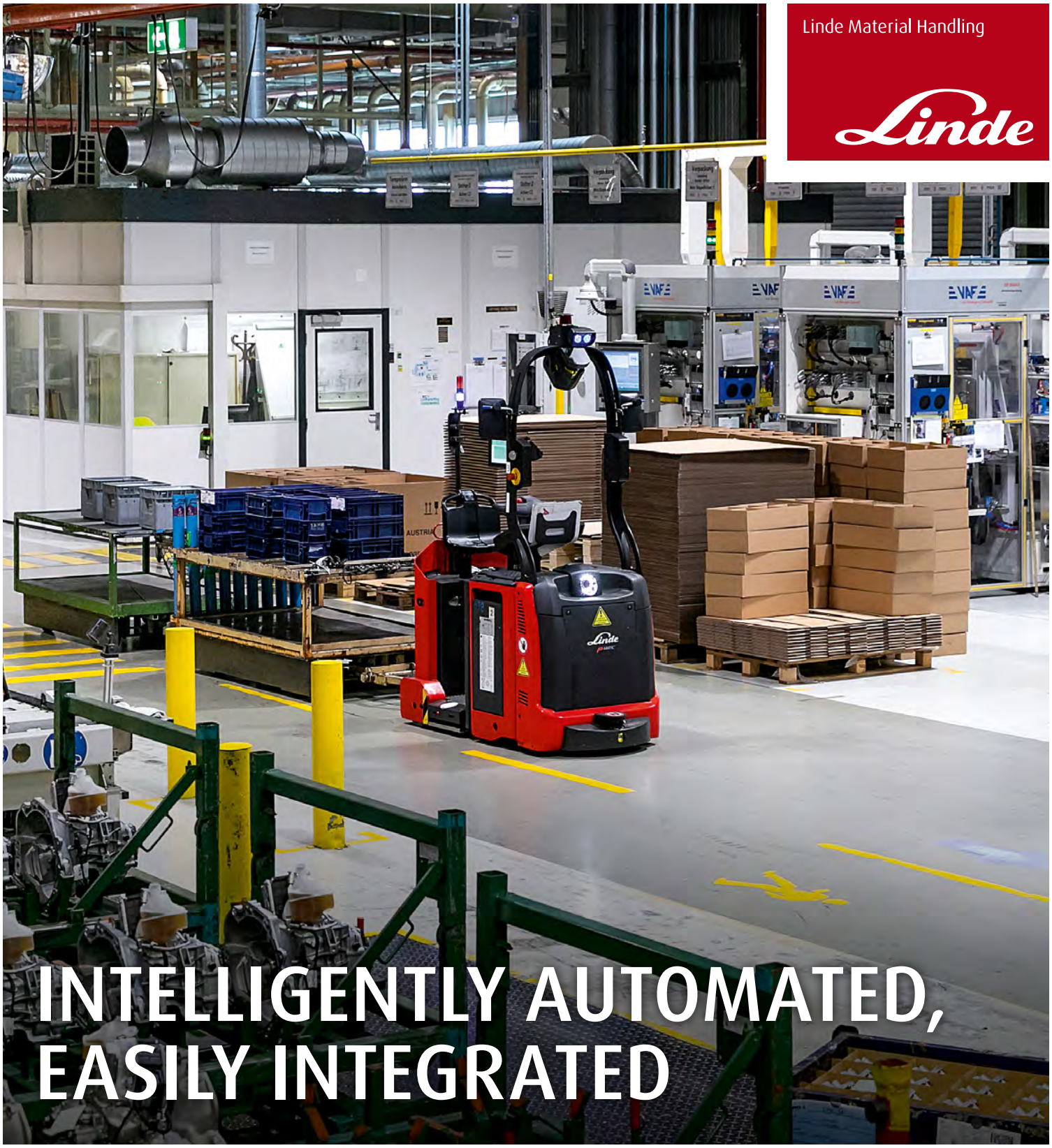
Linde Material Handling



INTELLIGENTLY AUTOMATED, EASILY INTEGRATED

Case Study // Opel Wien GmbH

The result of the cooperation between Opel Wien GmbH and Linde Material Handling shows how the supply of assembly lines can be made future-proof, cost-efficient, and safe. A fully automated tugger train system was implemented for the car manufacturer's engine and transmission plant at its Aspern site.

Company: Opel Wien GmbH, Aspern (Austria)
Industry: Automotive industry
Task: Planning and implementation of an automated transport system for assembly supply
Linde solution: Autonomous tugger train with a Linde P-MATIC, different attachments and geo-navigation

Task

The Opel plant in Aspern, Austria, is one of the car manufacturer's most important engine and transmission production facilities – two passenger car transmissions are manufactured here every minute on average. The material supply and transport processes required for this not only had to be made more efficient and cost-effective, but also safer and more reliable as part of the project.

Challenge

The customer's order involved numerous variables that the Linde experts had to bring together in a way that was as efficient as it was safe: After all, a wide variety of materials, quantities and sizes must be moved to different destinations at different times in the 150,000 square meter car plant – sometimes with extremely long transport distances of up to 1.5 kilometers. In addition, there are constantly changing processes to which the intralogistics must react in a flexible manner.

Safe, flexible, uncomplicated The Linde tugger train, equipped with various safety systems, navigates to its destination precisely thanks to a virtual map.

Solution

After intensive exchange with Opel's logistics managers, the integration of an autonomous tugger train system proved to be the optimal solution, both in terms of costs, safety and flexibility. The Linde P-MATIC tow tractors pull the various trailers automatically and precisely to the respective destinations thanks to geo navigation.

Advantages

Implementation of the Linde solution did not require any intervention in the existing process landscape or in the structural infrastructure. Each vehicle has an exact „virtual map" including all routes and route contours, which ensures smooth, safe transport. Keyword safety: Pedestrians in the plant are reliably warned of approaching vehicles by a blue light arrow projected onto the floor.

»From the very beginning, we felt that we were working with the right people at Linde, people who, like us, believed in the project and had the expertise to make it happen.«

Dr. Clemens Fath, Manager Supply Chain & Logistics, Opel Wien GmbH

Endurance runners At the Opel plant in Aspern, the automated Linde machines have to cover distances of up to 1.5 kilometers.

Roll it!

The button leads you directly to our video, which shines a light on the project at Opel Wien in all its facets.

Linde Material Handling

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