



# DRIVING FORWARD THROUGH AUTOMATION

## Case Study // Wolf GmbH

For Wolf GmbH, which has made a name for itself around the world as a leading system supplier of heating, ventilation, air-conditioning, and solar technology, breaking new ground is part and parcel of the company's DNA. The fact that this mindset also includes the company's own intralogistics is demonstrated by an automation project in which a standard process was streamlined to maximize efficiency with the help of Linde know-how.



**Company:** Wolf GmbH, Mainburg (Germany)

**Industry:** Heating, ventilation, air conditioning and solar technology.

**Task:** Implementation of an automated transport solution between the packaging warehouse and the dispatch area.

**Linde solution:** Delivery and installation of an autonomous Linde L-MATIC pallet stacker.

## Task

Wolf GmbH supplies customers around the globe with system solutions in the field of heating, ventilation, air conditioning, and solar technology from its headquarters in Mainburg in Lower Bavaria. The customer's wish was to find an efficient alternative to manual handling for a repetitive standard process in intralogistics. This concerned – in the sense of a pilot project for further automation solutions – the transport of palletized finished goods in the dispatch area between the packaging warehouse and the transfer points at the truck ramps.

## Challenge

Those responsible at Wolf GmbH were looking for a solution that would allow a high degree of flexibility – in other words, it should be possible to change the routes and tasks that had been programmed at any time without any great effort. Safety was also a key factor as the route between the packaging warehouse and the head office sees lots of traffic from employees and vehicles.



**Play it safe** Thanks to a wide range of safety systems, the Linde L-MATIC can operate safely and without problems in a warehouse environment frequented by people and other machines.

## Solution

After intensive planning work, an autonomous Linde L-MATIC pallet stacker with geo navigation was put into operation on site. It removes the packed pallets from a roller conveyor, which, in addition to its function as a material buffer, also serves as an alignment aid and thus contributes to process standardization. After picking up the goods, the Linde truck then transports them to the shipping area.

## Advantages

The Linde L-MATIC does not need any additional infrastructure such as reflectors, rails, or magnetic bands, as it uses a navigation laser and a specially created two-dimensional map of the building for orientation. Various safety features such as front and rear safety scanners, emergency stop switches placed on both sides, and the tried and tested Linde BlueSpot™ ensure that the Linde truck can interact with people or other vehicles without any problems or posing a danger.



»We were impressed by the orientation of the trucks in the room using geo navigation, which makes additional infrastructure superfluous.«

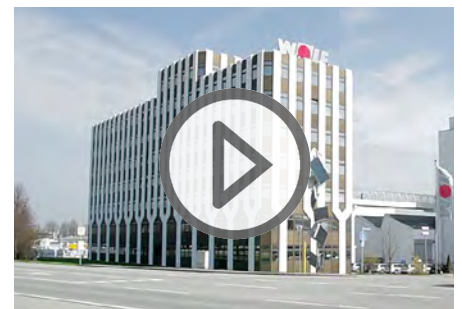
Roman Feigl, Logistics manager, Wolf GmbH



**Ideally integrated** The automated Linde pallet stacker autonomously picks up the pallets from the roller conveyor.

## Roll it!

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



Linde Material Handling

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