



## PRACTICAL EXAMPLE SEAMLESS AUTOMATION FOR JERMI KÄSEWERK GMBH

COMPLETE LINE COMPETENCE FOR INTRALOGISTICS

### Task definition

Capacity bottlenecks at JERMI Käsewerk GmbH led to the planning of a completely new factory hall. Managing Director Gerhard Jerg specifically looked for future technology – the complete line competence of TRAPO was convincing and not least the fresh, elegant, compact stainless steel design of the system. Knowledge that is based on over 50 years of experience and expertise in the field of stainless steel production. All components of the hygienic design are produced in the in-house stainless steel production at the headquarters in Gescher-Hochmoor.

### About JERMI Käsewerk GmbH

JERMI Käsewerk GmbH's clientele includes not only the classic food retailing sector but also all German discounters, wholesalers, the food-processing industry and the food service sector and partners in the co-manufacturing sector. 20 % of the products are exported from the Upper Swabian to 50 countries worldwide.

State-of-the-art production facilities ensure that over 12,000 tons of processed and fresh cheese and around 28,000 tons of ready-made cheese end up on the table of the connoisseur every year. High performance which has found a partner in TRAPO.



> Under high performance, the cheese specialities are palletized by several palletizers of the HLP series.

>>> I AM ABSOLUTELY DELIGHTED WITH THE SAFE, GENTLE AND AUTONOMOUS LOADING AND GLAD TO BE A DEVELOPMENT PARTNER IN THIS PIONEERING TECHNOLOGY. <<<



Gerhard Jerg | Managing Director  
JERMI Käsewerk GmbH

### Get informed:

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### TRAPO GmbH

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### The implementation

TRAPO designed and installed a fully automated complete line for the intralogistics of JERMI Käsewerk GmbH.

**Advantage: no interfaces, one mechanical structure, one control system.**

**Control via TIM, the TRAPO Intelligent Managementsystem.**

2 high-performance palletizers of the **HLP Series**: The first variant with y-axis serves 2 palletizing positions, 2 infeed areas at the top, palletizing positions at the bottom. Second variant with traversing axis: The palletizer traverses on a preset length and palletizes goods from 5 independently running infeeds to 5 assigned palletizing positions.

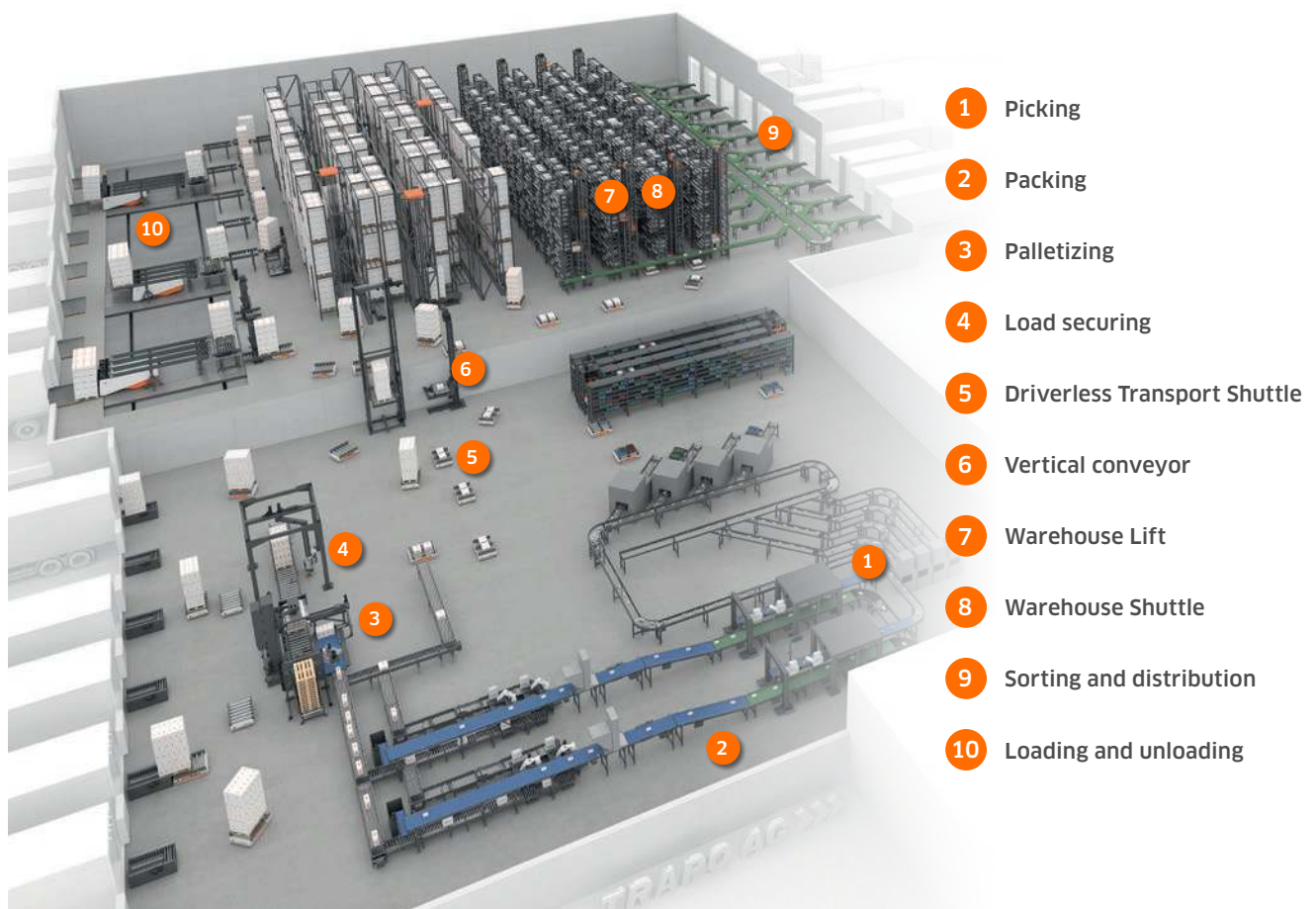
A fleet of 6 driverless transport systems of the **TTS Series** transports the cheese variations packed on pallets to the **TRAPO Stretch Wrapper (TSW Series)**, to the warehouse and to the loading station.

TIM controls, selects free shuttles and sends them on the shortest or fastest way.

JERMI decided on mobile conveyor technology in order to be able to use the existing hall space flexibly and product-dependent. Basically, the Automated Guided Vehicles can be configured according to a modular principle: different versions, payloads, speeds and superstructures such as MRK robots, lift etc.

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## TRAPO COMPLETE LINE COMPETENCE FOR PRODUCTION AND INTRALOGISTICS



### Our solution

- After palletizing, driverless transport systems of the **TTS Series** take over the transport to the stretch wrapper. The secured load is taken over by a fleet of FTS from several vehicles - to the warehouse or directly to the load. The operating batteries of the AGVs are charged via contacts.
- **TRAPO Transport Shuttle (TTS Series)** and **TRAPO Warehouse Shuttle (TWS Series)** are used in combination: for precise, time-saving transfers and optimal use of the storage area.  
In doing so, the TWS lays down the material at an acceleration of  $1.5 \text{ m/s}^2$  three meters per second and completes the cycle from extending, gripping and retracting in a maximum of three seconds.
- The **TRAPO Loading System TLS 3600** completes the seamless automation - right into the truck.  
At the loading ramp, the TLS automatically compensates for height differences and corrects its position.
- Loading takes place in 3 steps. First of all, up to 3 pallets are placed next to each other in a row on the stationary part of the system and aligned.  
This is followed by picking up and loading the row.  
During the loading process, a further row of pallets is formed and provided on the stationary part.  
This is a continuous process that saves time and distance and avoids waiting times for pallet loading.  
For a 14-metre trailer, the loading with 33 pallets takes approx. 30 minutes - depending on the goods loaded.
- The **TRAPO Loading Mover (TLM)** picks up the loading system to move it by rail or wheel and to position it optimally. Thus, the TLS can serve several loading ramps via the Mover; with JERMI, there are 2.



➤ FTS take over from the palletizer.



➤ TIM, the TRAPO Intelligent Managementsystem, sends the individual TTS of the fleet on the shortest route to their destination.



➤ The TRAPO Transport Shuttle as a link for storage and loading.



➤ The TRAPO Loading Mover picks up the TLS, moves it and positions it on the ramp.

