

# Fully Automatic Order Palletising in the Deep Freeze



## The Task!



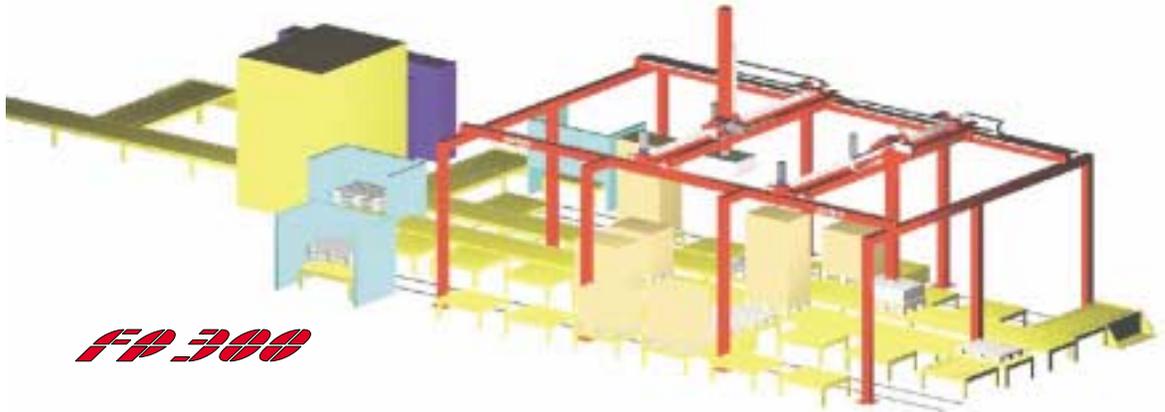
Although our palletising and de-palletising robot concepts are generally accepted to be standard technology, order palletising within the deep freeze sector still requires a lot of effort, manual work and is not without its human errors.

New possibilities have arisen as a result of the order palletising centre developed by Ro-ber. The system is required to transfer layers of frozen products from storage pallets onto customer pallets at temperatures of  $-27^{\circ}\text{C}$ .

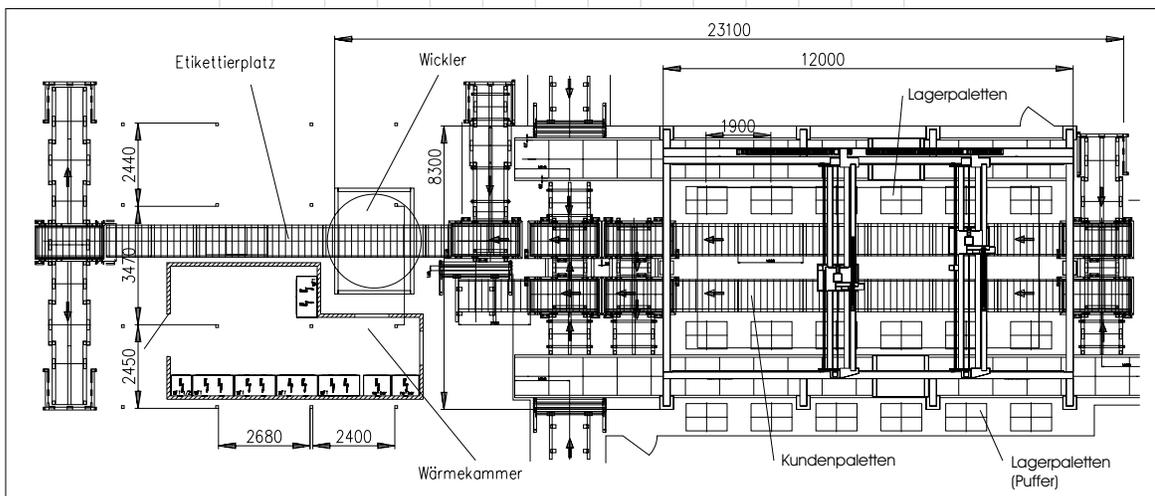
Our specially adapted PLC concept, integrated with the in house central control system, guarantees optimal handling of customers product from order compilation in the warehouse right through to the end user.



# The Solution



**Plan view of the FP300-3/ST Twin Gantry.**



With a large and variable work space the area gantry robot is ideal for commissioning tasks. The diagram above shows how the robot can process twelve different orders simultaneously.

The robot can pick up to 300 different products at a rate of 240 layers an hour. Two telescopic tee cars supply the robot working area with storage pallets. Chain and roller conveyors, situated centrally in the system, transport the finished customer pallets to an orbital wrapper.

The SAP software and PLC optimise the commissioning of orders, as well as controlling the movements of the pallets and robots.

