

Case Study

Palletising Robots



Standard solution for Dairies Palletising of Milk Cartons



View onto the three pallet stations



Robot with vertical clamping gripper for trays and cartons



Cage with custom pallet



Emmi is a leading Swiss dairy, employing approximately 1,300 people at a turnover of around 1.3 Billion CHF.

Both FP100 Omega Robots work in the same gantry frame to palletise milk cartons. Cartons arrive in three in-feed spurs, either shrink wrapped, in trays or singly. Palletisation is either to Euro Pallets or into cages which are then loaded in fours onto a custom pallet. Differing grippers accomplish these tasks. One robot uses a clamping gripper to handle trays, whilst the other uses a vacuum gripper to load the cages. A T-car takes the full pallets to an orbital wrapper. At the exit location, past the orbital wrapper, a fork lift removes them from the system.

The scope of the project included both Robot and pallet transport as well as installation and commissioning.