

REFERENCE

Europe's tallest deep-freeze storage warehouse



DISTRIBUTION CENTER
FOR FROZEN GOODS



MACROMEX
innovating your healthy meal

Unitechnik
PERFECTION AUTOMATED.



MACROMEX SRL
BUCHAREST, ROMANIA

Key data of the facility

Automatic refrigerated warehouse (-24°C)
for food

3-lane high-bay warehouse:
approx. 17,000 euro-pallet spaces,
double-deep storage
3 stacker cranes, 40.5m tall
25 DS/h/stacker crane as per FEM
Loading equipment for euro-pallets and
industrial pallets,
max. height 1.95m, 1000kg

Conveyor technology for 150 pallets per hour
Incoming/outgoing goods functions
Goods-to-man picking station

42-meter-tall deep-freeze warehouse

A height of 42 meters is quite a feat for a logistics property. To support optimum processes at a temperature range of +4 to -24 degrees Celsius, a truly sophisticated logistics concept is needed. One good example is the Macromex distribution hub in Cmpia Turzii - "Edenia Distribution Center". The Romanian frozen-foods supplier has built a new distribution hub at this location together with Unitechnik as system integrator. Macromex delivers on time to international customers from this automated logistics centre. The € 17m project is capable of handling up to 2,000 pallets per day.

The high-bay warehouse is the heart of the new logistics hub and at 42m is Europe's tallest automatic deep-freeze storage warehouse. With only three aisles, it still has 17,000 Euro pallet storage locations. Pallets are stored double-deep on 16 levels so that space is optimally used. The storage and retrieval on each aisle is served by a 40.5m high single-mast stacker crane.

Scope of Unitechnik contribution

General contractor

Control engineering and visualization
Warehouse control system (WCS)
ERP interface with Scala
Switchgear construction, and installation
Startup and training

Additional purchases:

Steel construction: SSI Schäfer
Stacker cranes: Dambach
Pallet conveyor technology: Binder
Airlocks with rapid action doors: Efaflex
Fire-protection doors: Stöbich

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