

REFERENCE

Flowers in the desert



**MAINTENANCE OF THE COOLING
CHAIN**
HAS THE HIGHEST PRIORITY



Dubai Flower Centre
FRESH GROWTH OPPORTUNITIES

Unitechnik
PERFECTION AUTOMATED.



DUBAI INTERNATIONAL AIRPORT

VEREINIGTE ARABISCHE EMIRATE

Key data of the facility

Total freight terminal is cooled to 2 - 12°C
Automatic ULD warehouse with
2 elevating transfer vehicles (ETV)
258 storage spaces (20ft ULDs)
4-times deep storage
3 different temperature zones
4 automatic transfer vehicles
2 vacuum cooling shelves
21 work stations
2 X-ray stations
15 airlocks
10 hermetically sealed bays
180.000 tons freight per year

Transfer of cut flowers at 50°C

The Dubai Flower Centre is worldwide the first air freight terminal which is specialised in the transfer of cut flowers. The geographic situation is ideal for a flower transfer facility. Dubai lies in fact at the intersection of the most important grower and consumer countries in Asia, Africa and Europe. Summer temperatures of up to 50°C however demand a high technological expense, in order to meet the requirements of the sensitive product.

The aluminium containers (ULDs) from the freight aircraft are driven with cooled dollies to the terminal and arrive through air shafts into the interior of the 10,000 m² large building complex, which is cooled to 2 to 12° C. The core of the facility is the 20 m high bay warehouse. 2 elevating transfer vehicles place the ULD's, which weigh up to 6.8 tons, into the shelves. Via automatic conveyor belts the ULD's arrive at one of the 21 work stations on which the ULD's are commissioned. All movements and products are coordinated by the inventory control system.

Scope of Unitechnik contribution

Control technology:
12 x Simatic S7-400
Profibus DP
Camera monitoring system(CCTV)
30 cameras, 4 monitors
Inventory control system:
Cluster server with
10 computer terminals
Temperature surveillance
Product administration
Connection with CMS host
Control cabinets, assembly,
commissioning, training,
assistance in production
Overall responsibility:
ICM Airport Technics GmbH
(Unitechnik Group)

Completion: 2006

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