

# Cargo Mega Terminal





## State-of-the-art site

Since opening its doors to the world in February 2008, the new Cargo Mega Terminal (CMT) marks another bold chapter in Emirates' dynamic pioneering history. Dedicated exclusively to our customers, the state-of-the-art CMT, built on a 35,000 square metre site, has increased our ground-handling capacity by over 1.2 million tonnes per year and

has the capability to handle all types of cargo from one central location. Located in Dubai, and designed with its partners at the Dubai Airports Authority and Dubai Airports Cargo, the CMT has fully-automated workstations and is one of the most technologically advanced cargo terminals in the world.



## Facilities on ground

At the CMT, the accelerated retrieval of consignments through automated handling systems and real-time tracking of cargo with handheld terminals ensure increased productivity and guaranteed results. The same detailed planning extends to the CMT's special handling facilities. Live animals are accommodated in noise-protected areas, with temperatures controlled to suit their individual needs.

Independently-controlled, special storage zones maintain the critical requirements of temperature-sensitive medicines and perishable goods. By working collaboratively with all concerned government authorities under one roof, we are able to streamline processes and minimize delays, while the simplified, one-tier UAE tariff speeds up the movement of goods.



# Departments at the CMT

The CMT has various departments:

- Warehouse Operations
- Customer Relations for UAE Customers
- UAE Cargo Sales
- Global Hub Operations Management
- Dubai Customs
- Dubai Cargo Village
- Dubai Municipality
- Other government authorities



## Warehouse handling area

The CMT's handling area comprises a 35,000 square metres footprint of:

- Cargo build-up and break-down
- Cargo acceptance and delivery
- A total build-up area of 64,000 square metres

The CMT has areas dedicated to cargo handling/storage and processing for special cargo, general cargo and unit load devices.

- Special Cargo such as perishables, live animals, valuables, human remains and dangerous goods including radioactive materials
- General Cargo
- Intact Unit Load Devices
- Intact Unit Load Devices with Perishable Cargo

An extensive handling area featuring a seven level Automatic Storage & Retrieval System (ASRS) with 10,000 loose cargo storage locations and a sizeable seven-storey Pallet Container Handling System (PCHS) with a storage area for 2,400 Unit Load Devices (ULDs), 218 of which are dedicated positions for temperature-sensitive ULDs, will significantly improve both the quality of shipment processing and flight handling.

To ensure that cargo can be loaded, unloaded and transferred quickly and efficiently, the new facility has a large number of airside ULD entry and exit gates – 78 in total.



## Perishable handling area

The CMT has a perishable handling area with 4,623 square metres floor space, and 3,927 square metres of 218 individual cool cells of temperature zones. With a capacity of 175,000 tonnes annual throughput, two handling and storage zones to maintain different temperatures (5 to 18 degrees centigrade) as well as 12 perishable docks, the perishable handling area can accommodate all types and sizes of perishable cargo. The freezer has a volume of up to 400 cubic metres with a temperature of  $-18^{\circ}\text{C}$  (which can be set according to requirements) and can store up to 20 LD3 units. In addition,

there is dedicated storage available for Pharmaceutical shipments in Active Temperature-controlled units as well as dedicated counters and truck docks for acceptance and deliveries.

The CMT also has 10 power sockets on its airside edge in three locations to serve Cool Dollies and electric-powered Active Temperature-controlled units.



# Handling and storage system

## **SkyChain**

This state-of-the-art cargo commercial and terminal handling system integrates all processes across our network and global hub operations, in real-time. Information is transparent to both internal and external players across the global supply chain through industry-standard messaging or web interfacing.

## **Cargo Control System (CCS)**

This cutting-edge equipment automation system integrates all mobile and static equipment in the CMT through SkyChain. CCS also duplicates the shipments, ULD and flight data to facilitate seamless hub

operation in the event that SkyChain becomes unavailable, while storage and movement information at shipment and ULD level is stored in SkyChain for manual operation should CCS become unavailable.

## **Wireless Network**

The warehouse is wifi-enabled and the wifi network facilitates automatic integration of all moving equipment with CCS. The wireless network also facilitates availability of corporate applications to users both in the office and in the warehouse on any authorised mobile devices.



## Handling and storage system

### **Radio Frequency Network**

The warehouse is comprehensively covered with Radio Frequency network so that all operations users can carry out their business transactions on handheld devices in real-time, which improves quality levels, data accuracy and transparency of information.

### **Security/Safety Systems**

High-resolution, Close Circuit Television Cameras monitor the warehouse 24/7, with police and specially trained Group Security backup. The facility is equipped

with fire fighting, sprinkler and hose systems as well as alarms integrated with the airport's fire fighting department to immediately address any eventuality.

### **Building Management Systems**

All the facilities' electrical, mechanical, air-conditioning, safety and security systems are fully integrated and managed through the building management system, which automatically tracks the health of all components and sends an alert when it cannot auto reset.



## Landside acceptance, delivery and storage

Our landside facilities ensure efficient acceptance and delivery of cargo, with a total of 45 truck docks for loose cargo and:

- Perishable Cargo: 12
- General Cargo: 25
- Intact Bridge System: 9
- Road feeder trucks – intact units (for Loading/Unloading): 9

The CMT is equipped to handle the storage of all types of cargo, from perishables to live animals.

Loose Cargo Storage:

- 10,000 locations with an equal number of Large Storage Pallets (LSPs)

Unit Load Device (ULD) Storage:

- General Cargo: 2,064
- Perishable Cargo: 218

In essence, the CMT ensures the shortest acceptance, delivery and transit times of any major international airport, with urgent inbound consignments cleared within 120 minutes of arrival, outbound acceptances up to just 120 minutes prior to departure and outbound transfers possible in less than 120 minutes.



## CMT facts and figures

- Over 1.2 million tonnes annual throughput
- Handling area of 35,000 square metres footprint
- A total build-up area of 64,000 square metres
- Temperature-controlled handling and storage account for 5,000 square metres of the Terminal
- 46 truck docks for acceptance and delivery of loose cargo
- 78 airside ULD entry and exit gates
- 133 workstations for Cargo Break-down/Build-up
- 10,000 locations for loose cargo storage, with equal number of Large Storage Pallets
- 2,064 General Cargo ULD storage
- 218 Perishable ULD storage



# Cargo Products, Special Services & Solutions

Our Cargo Products, Special Services and Solutions have been developed to provide our customers with cutting-edge air freight solutions.

## Our Product Portfolio

- General Freight
- Priority
- Courier

## Our range of Special Services and Solutions

- Integrated Solutions
  - Airport to Door
  - Door to Airport
  - Door to Door
- Protect
- Cool Chain

- Animal Care
  - Domestic Pets
  - Horse Transportation
- Customised Logistics Solutions
  - Charter
  - Customer Partnership

Emirates SkyCargo has a dedicated team based at the CMT which is comprehensively trained in the cargo handling needs of a wide range of products. Authorities including Dubai Customs, the Department of Airports and the UAE SSD (State Security Department), Police, Ministry of Agriculture & Fisheries are conveniently located in the same building, allowing for speedy export acceptance and import delivery.



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