

KOREAN AIR CARGO

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Incheon Cargo Terminal



Korean Air Cargo opened a state-of-the-art new cargo terminal with the investment of USD 83 million at Incheon International Airport. It is geared up for a global logistics provider, as the Incheon International Airport is emerging as a prime gateway of Northeast Asia in the 21st century. And, it will definitely offer the right logistics solutions to the right customers in the right way at the right time.

KOREAN AIR CARGO

 **大韓航空**

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Customer Benefit-focused

The new cargo terminal handles a throughput of 800,000 tons a year. In 2003, its capacity will grow to one million tons, 2.2 times that of Gimpo Airport, with added facilities.

Around the clock operation a day system enables immediate acceptance and delivery. Freighter operation will be more flexible.

Larger workstations and truck docks reduce the ground waiting time to the minimum.

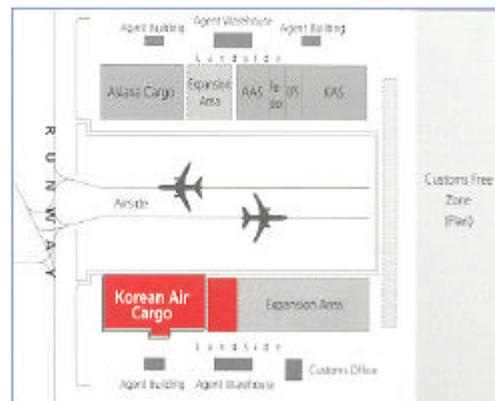
Cooling, freezing storage for perishables, warm room, valuables vault and animal/plant quarantine rooms have installed. For immediate quarantine of plants, a fumigation room is installed.

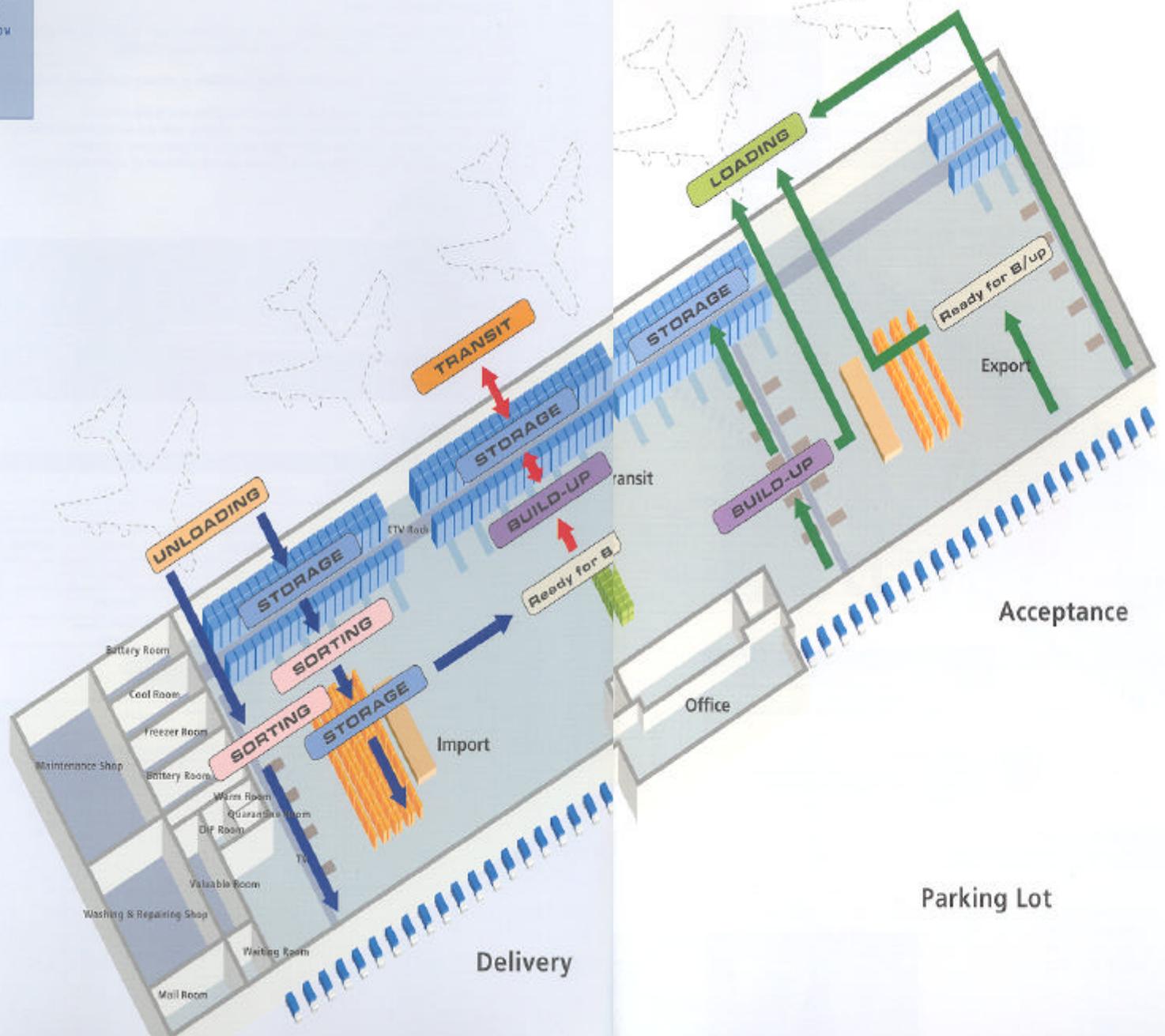
Dedicated facilities for express cargo enable fast and safe transportation of urgent shipments with top priority.



SECTION	CARGO TERMINAL	AGENT BUILDING	FUMIGATION ROOM	TOTAL
SCALE	Three stories above ground & one beneath ground	Four stories above ground	One story	
SPACE	45,114.73w (161.5x105m)	1,356.68w (81.8x29.4m)	237.06w (21.6x10.3m)	\$1,508,47m
TOTAL SPACE	57,863.6w	2,810.23w	237.06w	65,910.89w
HEIGHT	19.22m	22.25m	5.4m	
STRUCTURE	Steel frame & Rhamon	Reinforced concrete	Steel frame	
REMARKS	800,000 tons per year capacity	108 Cargo agent offices	Fumigation device in plant	

Incheon Cargo Area Information





UNLOADING

TRANSIT

LOADING

SORTING

BUILD-UP

STORAGE

Ready for B/up

Export

Battery Room

Cool Room

Freezer Room

Maintenance Shop

Battery Room

Warm Room

Quarantine Room

DIF Room

Valuable Room

Washing & Repairing Shop

Waiting Room

Mail Room

Import

Delivery

Office

Acceptance

Parking Lot

ETV(Elevating Transfer Vehicle) & Rack

ETV moves ULD upward and downward, from side to side in the ULD storage rack. Korean Air Cargo's ETV can handle 20-foot ULD shipments.



By-Pass
Bypass lines handle unroad and pre-parked cargo immediately.

**TMS(Terminal Management System)**

Warehouse & MHE(Material Handling Equipment) automation
Export and import cargo handling, inventory control, EDI for customs clearance
Warehouse storage, cargo handling and customer service

**Barcode System**

All shipments to/from through Incheon airport are scanned by barcode system. It provides precise and real-time information for cargo movement.

**Auto High Rack System**

AS/RS(Automated Storage & Retrieval System) and box storage system is used to store the cargo automatically by each different size.

**AS/RS**

System - AS/RS(Automated Storage and Retrieval System)

Usage - Automatic storage and retrieval for import cargo

Load Capacity - 1ton / Rollbox

Specification - Stacker Crane : 3set

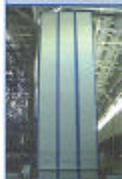
Rack : 768cell

Rollbox : 768ea

Feature - Automatic control by remote computer

Reliable movement system

Promptness, accuracy and safety

MSS

System - MSS(Minishipment Storage System)

Usage - Automatic storage and retrieval for minor cargo

Capacity - 250kg/tray

Specification - Extractor : 3ea

210 Trays

Feature - Optimum size for vertical storage

Reliable movement system

Promptness, accuracy and safety

ETV

System - ETV(Elevating Transfer Vehicle)

Usage - Automatic carriage for air cargo container

Capacity - 12.6tons(20feet)

Installation - 3ea

Export : 1set

Transit : 1set

Import : 1set

Feature - 20ft container handling

Reliable movement system

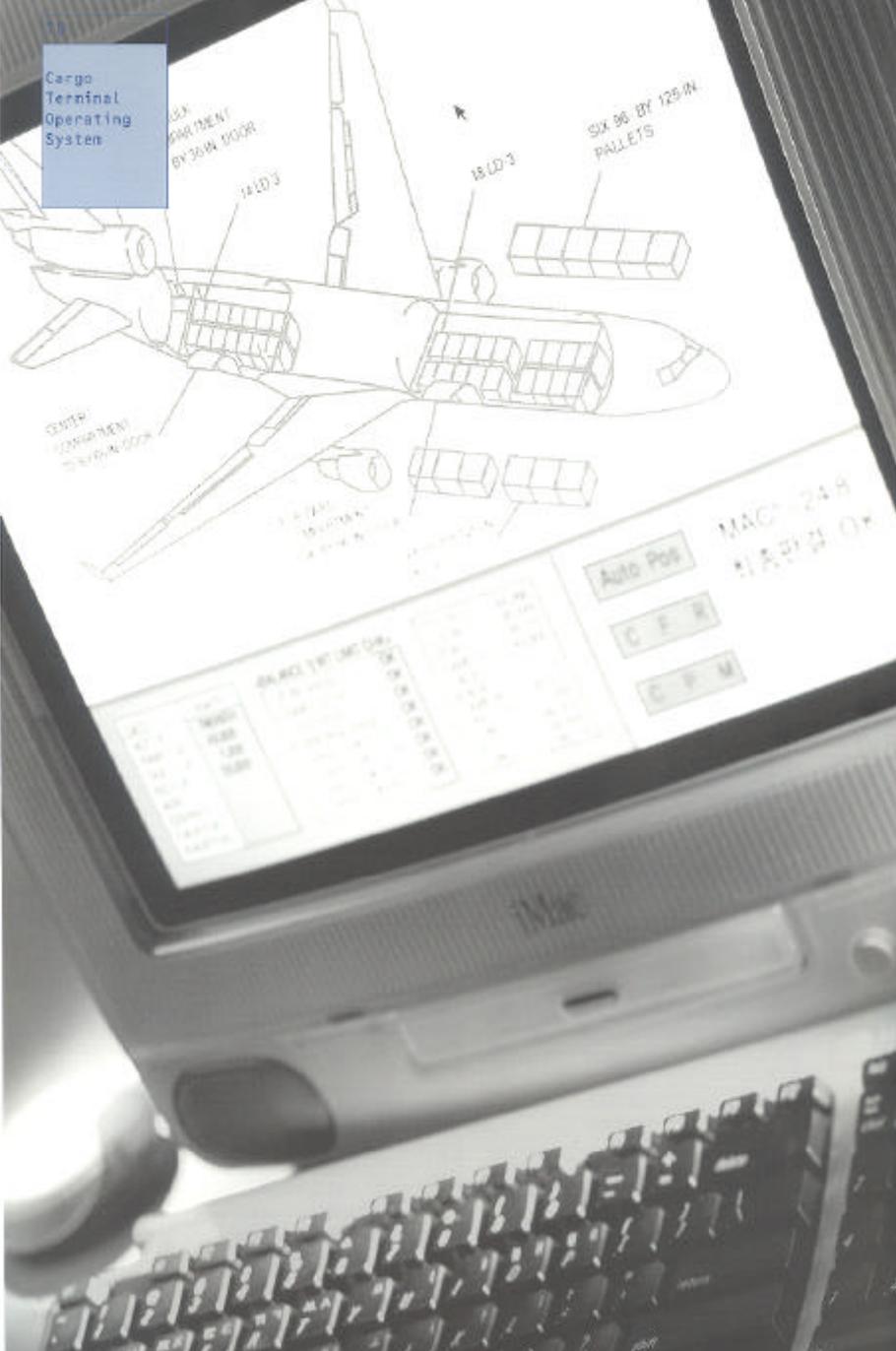
Promptness and accuracy

Weighing scale is installed in ETV

Cargo data exchange with warehouse system by wireless

Facilities	Incheon Cargo Terminal
20FT ETV	3
ETV RACK	702 positions
10FT TV	2
WORK STATION	74
SCISSORS LIFT	8
ASRS	1set(768cells)
STACKER CRANE	3
DOCK LEVELER	45
SCALE	18
TRUCK DOCK	57
TYPE A RAMP	3
X-RAY	2
BPASS	1
MINISHIPMENT STORAGE SYSTEM	3set(210trays)
COOL ROOM	717㎡(20ULD positions)
FREEZER ROOM	378㎡(10ULD positions)
WARM ROOM	38.5㎡(2ULD positions)
DP	60㎡
VALUABLE ROOM	160㎡
SECURITY CONTROL SYSTEM	19cameras
FUMIGATION ROOM	237.1㎡

Cargo Terminal Operating System



Computerized Operation Improves Efficiency

CTS(Cargo Traffic System) is Korean Air Cargo's own built cargo terminal system. It enables real-time communications between Korean Air staffs and ground handling staffs through PC terminals beside workstations and barcode scanner. Most work process can be observed and handled through the screen of CTS.

TMS(Terminal Management System) computerizes the warehouse control. The cargo information such as warehousing and delivery time, cargo location and build-up, break-down result can be provided immediately as well as special cargo handling status.

