Korean Air Cargo, the world's leading cargo carrier, operates to and from most major destinations in Asia, North America, Europe and Oceania with its newest and largest freighter fleet of B747Fs and MD11Fs. Korean Air continues to invest in modernization of its freighter fleet, state-of-the-art facilities and IT to provide more reliable services to customers.
Korean Air Cargo opened a $102 million cargo facility at JFK International Airport in October 2000. Four carriers currently operate out of this state-of-the-art facility which now handles the highest volume ever recorded. JFK is the gateway for Korean Air’s east coast cargo operations. The facility allows Korean Air Cargo to expand its services to other important east coast cities like Toronto, Atlanta and Miami.

This facility has the capacity to store and protect cargo from inclement weather, and allows efficient delivery and acceptance of cargo from its 34 truck docks.
**Automated Storage and Retrieval System (AS/RS)**
Makes maximum use of terminal space with high-bay cargo storage where bulk freight can be quickly, safely and securely stored.

**Automated Electrified Monorail (AEM)**
Moves overhead transfer box-bins between the AS/RS and ULD systems.

**Transfer Vehicle (TV)**
Provides safe and efficient transfer of containers and pallets from landside to airside of the terminal.

**Nose Dock**
Moves ULD between warehouse and aircraft directly.

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**Facilities & Equipment**

<table>
<thead>
<tr>
<th>Storage</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETV Rack</td>
<td>328 positions</td>
</tr>
<tr>
<td>Conventional Rack</td>
<td>195 positions</td>
</tr>
<tr>
<td>Cooler Room</td>
<td>4 positions</td>
</tr>
<tr>
<td>Freezer Room</td>
<td>2 positions</td>
</tr>
<tr>
<td>Warmer Room</td>
<td>10 positions</td>
</tr>
<tr>
<td>Steel Cage Room</td>
<td>2 positions</td>
</tr>
<tr>
<td>Valuable Storage Room</td>
<td>1 positions</td>
</tr>
<tr>
<td>Dangerous Storage Room</td>
<td>9 positions</td>
</tr>
<tr>
<td>AS/RS</td>
<td>783 box bins</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Facilities &amp; Equipment</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETV</td>
<td>2</td>
</tr>
<tr>
<td>TV</td>
<td>2</td>
</tr>
<tr>
<td>Nose Dock</td>
<td>2</td>
</tr>
<tr>
<td>Truck Dock</td>
<td>34</td>
</tr>
<tr>
<td>Work Stations</td>
<td>23 positions</td>
</tr>
</tbody>
</table>
Customer Benefits

- Reduced waiting time - larger work space, 34 truck docks and one-stop cargo delivery service
- Customer satisfaction - 24 hour operations, immediate cargo acceptance and delivery
- Customer convenience - prearranged business prior to actual arrival by Internet cargo tracing
- Top quality facilities and equipments for special cargo

Key fact & figures of JFK terminal
Opening date  October 10, 2000
Warehouse area  18,115m² (198 x 92m, 200,000 square foot)
Yearly capacity  200,000 ton
Parking and handling of three B747 freighters simultaneously
Storage and handling of 900 ton shipments at once
(346 positions of 96” pallet)
Cargo acceptance and delivery are fast and consistent with automated, integrated and computerized handling systems. A central computer-controlled system oversees the Programmable Logic Controllers (PLCs) of each subsystem and keeps the terminal running smoothly and efficiently.

**Unit Load Devices (ULD) storage system**
The ULD storage system consists of an Elevating Transfer Vehicle (ETV), transfer deck storage racks and an Inventory Control System (ICS). This semi-automated system can access any programmed ULD location and move its cargo into or out of the correct position on the stage rack via onboard power transfers. Wireless devices and PC terminals, one installed in each ETV, can manage the inventory of location, storage and retrieval of ULD in the racks.

**Automated Electrified Monorail (AEM)**
The AEM consists of carriers and lifts. This system links the AS/RS to the ULD handling system using an overhead transport line. 18 trolleys move the box-bins back and forth between the breakdown workstations, the AS/RS and the truck docks. This overhead transport system reduces floor-level traffic, eliminates queuing bottlenecks and makes maximum use of the terminal’s valuable space.

**Automated Storage and Retrieval System (AS/RS)**
This system makes maximum use of terminal space with high-bay cargo storage where bulk freight can be quickly, safely and securely stored.

A central computer-controlled system oversees the Programmable Logic Controllers (PLCs) of each subsystem and keeps the terminal running smoothly and efficiently.
**Seamless services by automated connection systems**

<table>
<thead>
<tr>
<th>System</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AS/RS</strong> (Automated Storage and Retrieval System)</td>
<td>Automatic storage and retrieval for import cargo. AS/RS maximizes floor space, improves throughput and adds routing flexibility by providing out-of-the-way storage space. <strong>Usage</strong> This system links the AS/RS to the ULD handling system using an overhead transport line. 18 trolleys move the box-bins back and forth between the breakdown workstations, the AS/RS and the truck docks. <strong>Capacity</strong> 783 box bins (individual bin holds up to 540kg of bulk freight)</td>
</tr>
<tr>
<td><strong>AEM</strong> (Automated Electrified Monorail)</td>
<td><strong>Usage</strong> This overhead transport system reduces floor-level traffic, eliminates queuing bottlenecks and makes maximum use of the terminal’s valuable space. <strong>Installation</strong> 2 sets</td>
</tr>
<tr>
<td><strong>ETV</strong> (Elevating Transfer Vehicle)</td>
<td><strong>Usage</strong> The three-story ETV stores and retrieves air cargo containers smoothly and quickly. <strong>Capacity</strong> 15 tons (20 feet long) <strong>Installation</strong> 2 sets</td>
</tr>
<tr>
<td><strong>TV</strong> (Transfer Vehicle)</td>
<td><strong>Usage</strong> TV provides the direct high speed conveyer/transport connection from the landside to the ETV on the airside. <strong>Installation</strong> 2 sets</td>
</tr>
</tbody>
</table>
Speedy cargo handling services

Direct docking or conventional side door loading/unloading can be done simultaneously to speed up cargo handling with 2 independent nose dock.

Nose Dock

Usage
The nose door of the aircraft can be directly accessed to the second level of the ETV. It has the capacity to handle B747F/MD11F and allows direct docking for nose door aircraft.

Installation 2 sets

Our Focus is completely on the Customer

JFK International Airport - Hub of US Eastern Seaboard
Korean Air’s cargo terminal at JFK is one of the largest and most advanced facilities currently operating on the eastern region of the U.S. Korean Air Cargo at JFK has also undertaken the handling of its SkyTeam partners.

Air France(AF), Aeromexpress(QO) and Czech Airlines(OK)

Incheon International Airport - Hub of Northeast Asia
Korean Air has explored new horizons in ground handling services in Korea for over 30 years as the largest supplier. Korean Air is uniquely positioned to provide a wide range of handling services corresponding to the Annex A of IATA Standard Ground Handling Agreement. We currently serve 35 carriers in cargo handling and handle approximately 75% of cargo moving in & out of Incheon.

AC Air Canada
AF Air France
AZ Alitalia Airlines
BA British Airways
CA Air China
CJ China Northern Airline
CX Cathay Pacific Airways
DL Delta Air Lines
EF Far Eastern Air Transport Corp
FV Federal State Unitary Aviation Enterprise Pulkovo
GA Garuda Indonesia
HU Hainan Airlines
JL Japan Airlines
JQ Japan Cargo Airlines
K2 Kyrgyzstan Airlines
K9 Kiko Airlines
LH Lufthansa
LY El Al Israel Airlines, Ltd
MH Malaysia Airlines
MU China Eastern Airlines
OM Mongolian Airlines
PR Philippine Airlines
SQ Singapore Airlines
SR Swiss Air
S7 Aeroflot Russia International
T7 Trans Asian Airlines
TG Thai Airways International
UA United Airlines
VN Vietnam Airlines
WO World Airways
XF Vladivostok Air
7B Krasnoyarsk Airlines
9S Southern Air
9Y Air Kazakhstan