



AIRPORT LOGISTICS

# Helsinki Airport Cool Nordic Cargo Hub

Customer: Finnair Cargo  
 Project location: Helsinki, FIN  
 Project start: May 2015  
 Project completion: May 2017

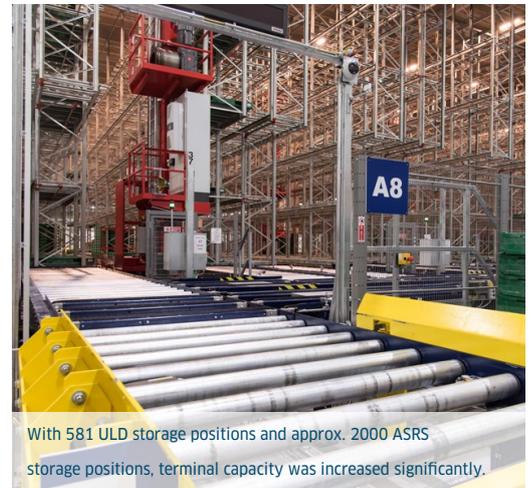


## 450,000 TONNES THROUGH AUTOMATION

In order to handle growing cargo volumes efficiently, Lödige Industries delivered state-of-the-art automation technology for the 'Cool Nordic Cargo Hub' of Finnair at Helsinki airport.

Helsinki benefits from its strategic geographical position as a gateway between Europe and Asia, with routes which require high quality temperature management. The turnkey solution delivered to Finnair includes design, manufacturing and installation of the material handling equipment as well as the automation process technology, onsite maintenance and remote monitoring.

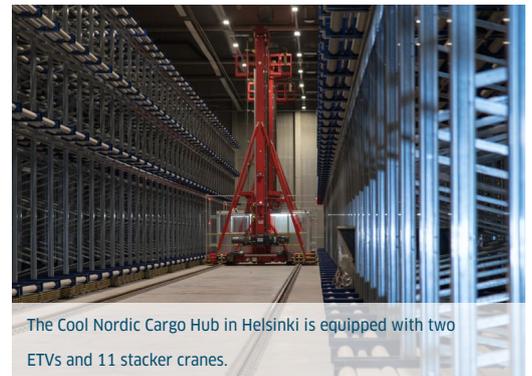
**Finnair** is the largest Nordic air cargo carrier, transporting 145,000 tonnes of freight and mail annually. The Cargo Logistics Hubs in Helsinki and Brussels serve 250 direct flights with wide-body passenger aircraft between Europe, Asia and the US every week.



With 581 ULD storage positions and approx. 2000 ASRS storage positions, terminal capacity was increased significantly.



Finnair Cargo invested in a new cargo terminal at Helsinki-Vantaa Airport to match the increase in freight generated by Finnair's new Airbus A350 XWB fleet.



The Cool Nordic Cargo Hub in Helsinki is equipped with two ETVs and 11 stacker cranes.



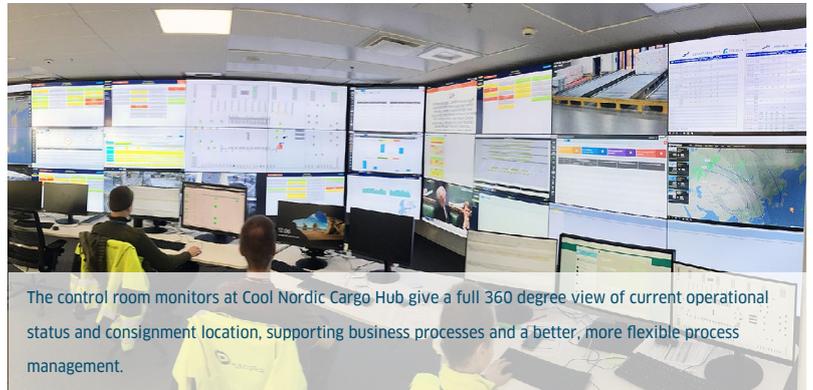


# EUROPE'S MOST MODERN CARGO TERMINAL

## PROJECT DETAILS

The new 37,000 square meter facility in Helsinki was built with the intention of raising Finnair's total cargo capacity to 450,000 tonnes of air-freight per year. In addition, Finnair was keen to implement smart processes in terms of automation and data control. The concept Lödige Industries applied at the core of the cargo terminal is one of simplicity. This was achieved by integrating business processes and automation equipment into a smart IT system, giving Finnair the desired throughput and maximum consignment control.

Smart planning tools based on live data are used for truck management and unloading, guide forklifts, plan build and break activities and dispatch airside deliveries in the most efficient way, given just-in-time and just-in-sequence considerations. Separate build-up processes in a special fish and seafood area are integrated into the overall process management. The data fed back into the system at every touch point is utilised to analyse processes, recognise operational interrelationships and solve issues with the help of modern user interfaces. The state-of-the-art material handling technology delivered by Lödige includes an automated ULD store using two 15 ft elevating transfer vehicles to serve 580 storage positions as well as an automated storage and retrieval system for 2,002 pallet storage positions using 11 stacker cranes.



The control room monitors at Cool Nordic Cargo Hub give a full 360 degree view of current operational status and consignment location, supporting business processes and a better, more flexible process management.

Since start of operations, Lödige Industries is handling on site maintenance as well as remote monitoring and control. The service contract, which has since been expanded, includes full service and maintenance of the equipment as well as IT maintenance and regular upgrades. The high quality of service delivered is due to proven processes, constant training and regular reviews.

## CUSTOMER REVIEW

"We are committed to delivering our valued customers the same peace of mind when transporting belly cargo on Finnair flights than what they enjoy in the cabin. Therefore, we were delighted to find Lödige Industries offering our vision about the warehouse automation and production management solutions in our Helsinki hub. Together with Lödige Industries we want to create a state-of-the-art Cargo Terminal in our home base in Helsinki."

Juha Järvinen, Finnair's Chief Commercial Officer

## TECHNICAL DATA

|                                                                          |       |                                           |    |
|--------------------------------------------------------------------------|-------|-------------------------------------------|----|
| Warehouse Management System                                              |       | Elevating transfer vehicles               | 2  |
| Machine PLC with remote EDS (SCADA)<br>(EDS - Electr. Diagnostic System) |       | Tilting dolly Interfaces                  | 24 |
| Aisles                                                                   | 11    | Elevating Work Stations (9x10ft. 2x20ft.) | 11 |
| Pallet stacker cranes                                                    | 11    | Powered roller decks                      | 70 |
| ASRS storage positions                                                   | 2,000 | Truck docks (4x20 ft, 1x15 ft)            | 5  |
| ULD storage positions                                                    | 581   | Slave pallet mover & Slave pallets        | 6  |
|                                                                          |       | Floor scales                              | 11 |



[Video Link:  
Cool Nordic  
Cargo Hub](#)

Lödige Industries GmbH | Wilhelm-Lödige-Str. 1 | 34414 Warburg  
Tel.: +49 5642 702-0 | Fax: +49 5642 702-111 | E-mail: info@lodige.com

[WWW.LODIGE.COM](http://WWW.LODIGE.COM)