

Hakkila Automated Warehouse Service



HUB logistics

Table of Contents



1

HUB logistics in brief
Pages 3 - 6

2

Hakkila Logistics Center in brief
Pages 7 - 8

3

Advantages - Digital & Automated
Pages 11 - 12

4

Advantages - Picking Accuracy
Pages 13 - 14

5

Advantages - Delivery Speed
Pages 15 - 16

6

Advantages - Inventory Accuracy
Pages 17 - 18

7

Advantages - On Time Delivery
Pages 19 - 20

8

Contact Information
The Back Cover

HUB logistics Group

Founded..... 1992

Ownership.....Operational management and
employment Pension Company
Ilmarinen

Employees..... 650+

Turnover..... 50 million euros

Business Lines.....Internal Logistics Solutions
Automated Warehouse Service
Supply Chain Consulting

Certificates..... ISO 9001 and ISO 14001

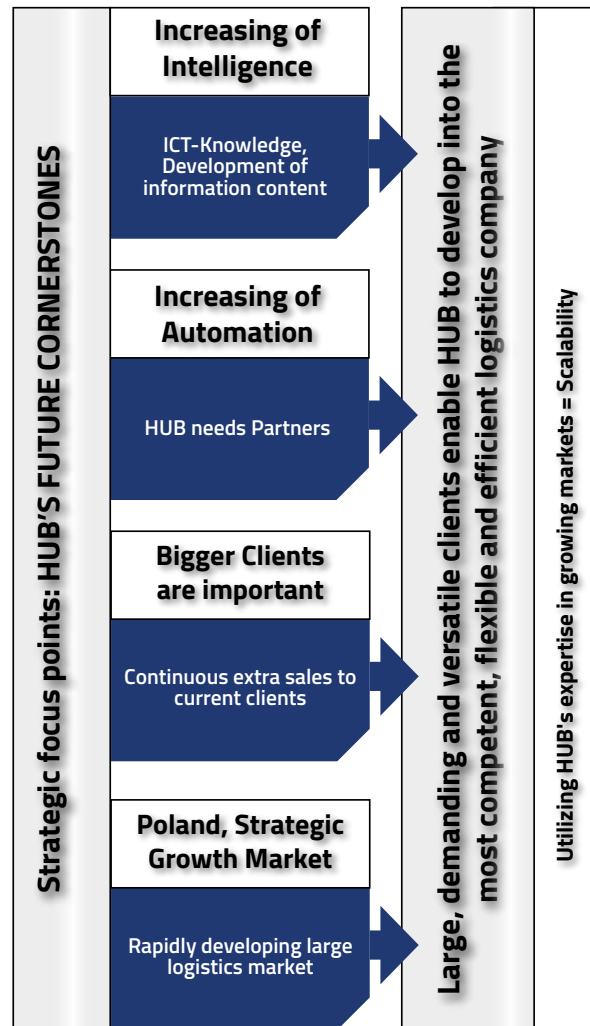
Locations..... 15 locations in Finland and abroad



HUB 2020 Strategy



Logistics Mega Trends



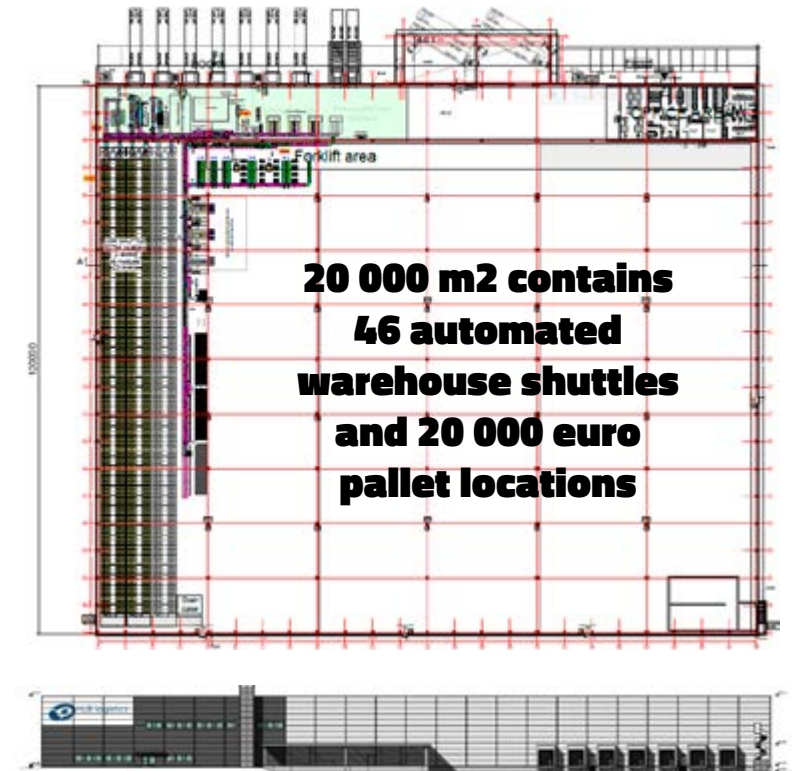
HUB Leadership Matrix

Board of Directors	Chief Executive Officer			
			QHSE	
			Sales, Marketing, Communication	
			Finance	
			Human Resources	
			Information Technology	
			Aviation	
		Automated Warehouse Service	Internal Logistics Solutions	Supply Chain Consulting

Hakkila Logistics Center



- Opened for business on February 28th, 2017
- Energy self-sufficient with 560 installed solar panels
- Up to 400 000 storage spaces
- Operated by 46 individual shuttle robots
- Currently 2 picking stations, 5 packing stations
- Astro WMS system with Liaison system interface to integrate Customer and HUB information stream to have fully digitalized information flow between partners





Hakkila Automated Warehouse (HAW) Value Proposition



Advantages

Process Quality:

- 100 % security
- 99,9 % accuracy
- Barcode reading on every stage

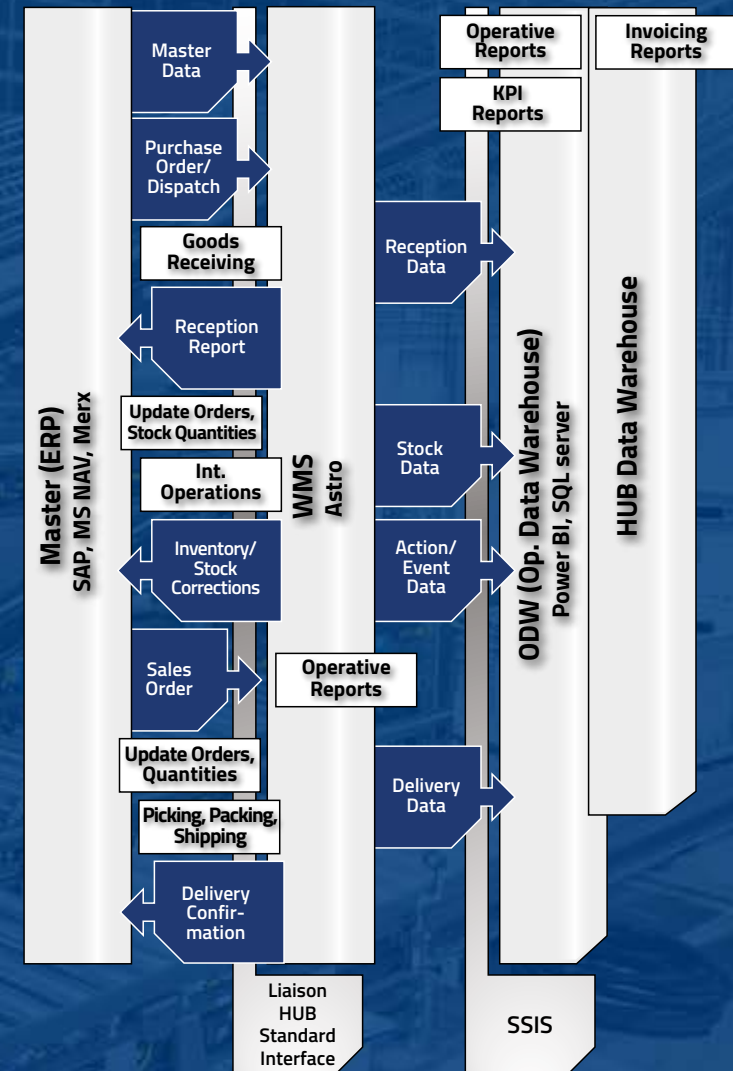
Operational Speed:

- 3 hours from order to Customer delivery
- Picking speed 3 500 rows per day
- Distribution working capital reduction

Operational Reliability:

- Performance measuring and reporting
- System data analysis
- Defined KPI's

100 % Digital & Automated



Advantages



HAKKILA AUTOMATED WAREHOUSE (HAW)

- Picking accuracy 99,9 %
- = Picking 10 000 rows quality impact:
- Avg. 1 wrong picking
- Total costs 53,30 €

Picking Accuracy



AVERAGE MANUAL WAREHOUSE (AMW)

- Picking accuracy 98,6 %
- = Picking 10 000 rows quality impact:
- Avg. 140 wrong pickings
- Total costs 7 462,26 €

**HAW X15 SMALLER
AMW DECREASING
MAY COST YOU**

**QUALITY COSTS!
OF BRAND VALUE
THE CLIENT!**

Advantages



HAW: 3 HOURS from order to
Customer delivery

HAKKILA AUTOMATED WAREHOUSE (HAW)

- Picking speed 3 500 rows per day
- Picking accuracy 99,9 %
- Distribution working capital reduction

**HAW IS 9 HRS FASTER
AMW LONGER
MAY COST YOU**

Delivery Speed



AMW: 12 HOURS from order to
Customer delivery

AVERAGE MANUAL WAREHOUSE (AMW)

- Picking speed 250 rows per day
- Picking accuracy 98,6 %
- Minimum 9 hrs longer delivery time

**9 HRS FASTER THAN AMW.
DELIVERY TIME
THE CLIENT!**

Advantages

HAW creates a queue for all inventory tasks based on the nightly balance comparisons

Inventory tasks can also be created by using our Astro or the HAW main system

Astro creates an inventory task for a product, if we notice differences in balances during picking

HAW notifies Astro for the differences in balances and Astro removes the product from the picking stations to a separate areas for lost and found items

This way it is easy to monitor the differences in balances

Our reports show when a stock-taking for a particular product was conducted last time

100 % Inventory Accuracy



HERE'S OUR TRACK RECORD FOR ONE OF THE LEADING FINNISH MULTI-CHANNEL ELECTRICAL GADGET WEBSTORE



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