



# SWISSLOG

INTRALOGISTICS AUTOMATION  
DESIGN | DEVELOP | DELIVER

Vicki Chen

Nov 2013

swisslog  
SmartCarrier

swisslog  
*inspired solutions*

# Agenda

1. Swisslog: Your right Choice!
2. Swisslog at a Glance  
Facts & Figures
3. Market Trends & Environment  
What does it mean for Your Business?
4. Offering
5. Proven Solution Designs based on Key Technology
6. Satisfied Customers: Global F&B references
7. References in China

Who we are

# 1. SWISSLOG

Your right Choice!

# What our customers can rely on

Who we are and what we do



Our Vision:

We strive to be the partner of first choice in Automated Intralogistic Solutions



Our Mission:

**We enable our customers to provide:**

The right products, to the right place,  
at the right time

# Swisslog: Your right Choice

What you can rely on:

- **Inspired Partner:**  
We are an inspired partner who understands your business strategy and **designs your success** through future-proof solutions.
- **Competence:**  
We have the competence to design **adaptable, scalable and flexible** solutions that allow you to stay ahead of your competition.
- **Clarity & Collaboration**  
Our clear and collaborative business approach delivers you value by offering everything from a single source, for **reduced risk and complexity** within budget and on time.
- **Commitment**  
We are committed to delivering measurable success by offering **tailored services** which support your growth, protect your investment and guarantee peace of mind.

Introduction



## 2. SWISSLOG AT A GLANCE

### Facts and Figures

# We are where you are...

... all over the globe



## Facts & Figures

- Founded in 1898 with Headquarters in Buchs/Aarau, Switzerland.
- Global presence 30 offices throughout more than 20 countries.
- Listed on the SIX Swiss Exchange.
- A premier supplier of logistics robots and automated distribution centers.

Plus many more support facilities around the globe.

# Swisslog

## Our market offering

### Swisslog

A premier supplier of  
automated distribution centers and logistics robots

#### Warehouse and Distribution Solutions

- Design: Logistic Consulting / System Design
- Develop: Project Implementation / System Integration
- Deliver: Operation Support / Maintenance & Modernization



#### Healthcare Solutions

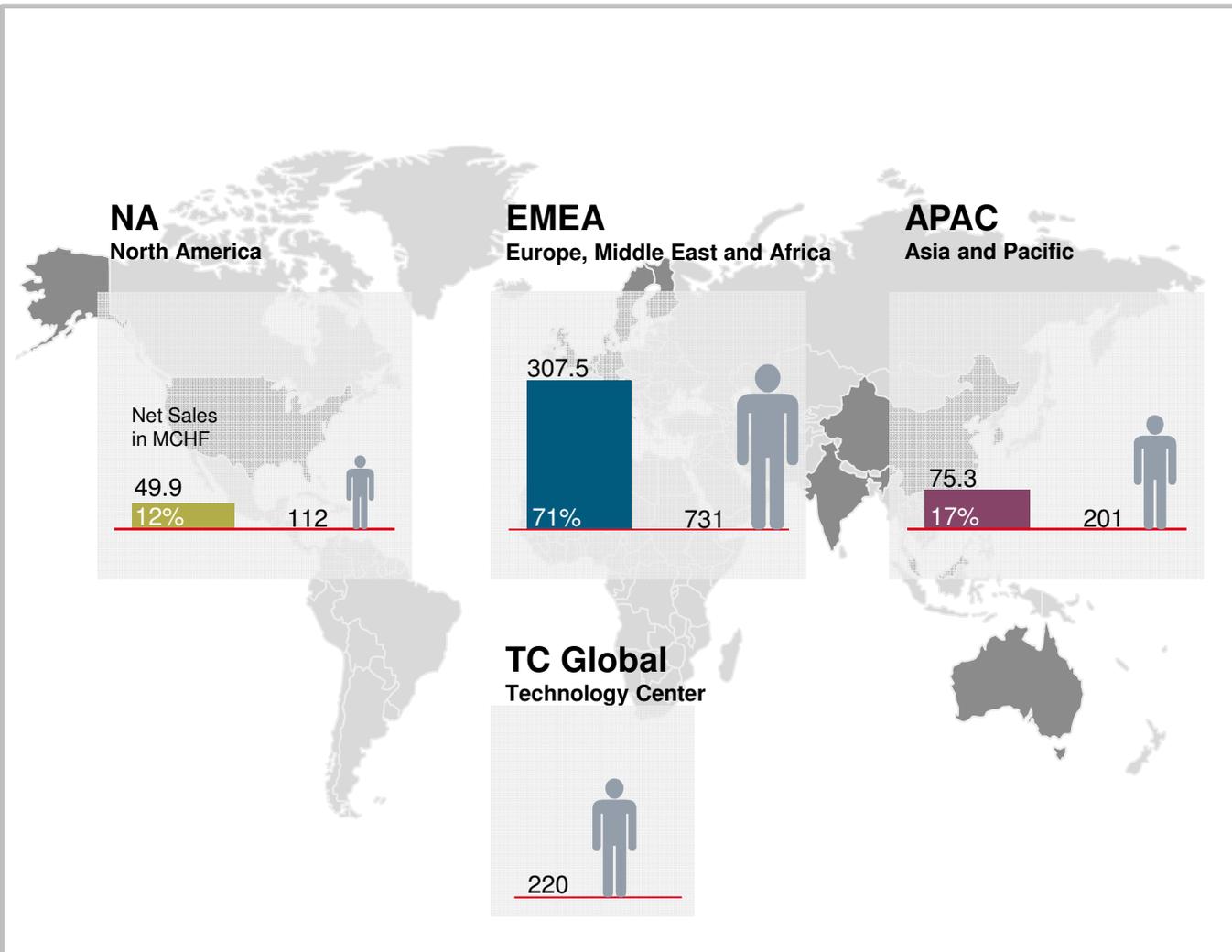
- Transportation of goods and materials throughout healthcare facilities
- Packaging, storage, dispensing and inventory management of medication



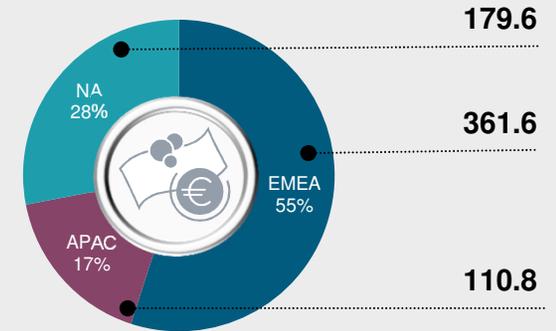
# Swisslog

## WDS at a glance

## Facts & Figures



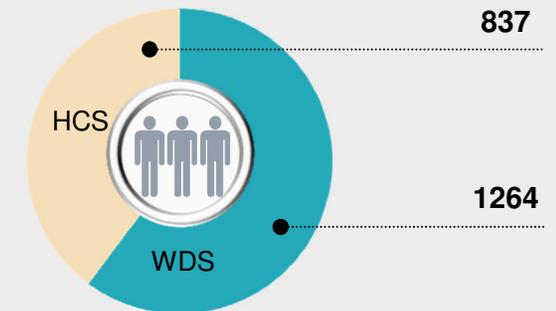
## Swisslog Net Sales in MCHF



Total: MCHF 652

## Employees

Full-time equivalents (at year-end)



Total: 2 101

### 3. MARKET TRENDS & ENVIRONMENT

What does it mean for your business?

# Market trends drive product innovation

## Increased demand for Light Goods Technology

### Market Trends

#### Less storage space



#### High availability of complete product range



#### Urbanization



#### Freshness



#### Less space per article



#### Internet trading



### Consequences

- more orders and order lines
- smaller orders with fewer order lines
- short shipping frequency
- short lead times

# What does it mean for your business?

## Market Trends

### **Be flexible...**

- ... based on scalable & flexible solutions for your future growth.

### **Be customer focused...**

- ... and respond to changing customer needs at any time thanks to adaptable and future oriented solutions.

### **Be efficient, productive & ahead of your competition...**

- ... thanks to an optimized logistic system which guarantees fast response times, reduced inventories, increased throughput & short delivery times, zero downtimes and maximized productivity.

### **What we can do for you:**

- We understand your unique business needs...
- ... by designing flexible, scalable and future oriented solutions
- ... designs which deliver value and allow you to stay ahead of your competition
- ... and deliver peace of mind at any time.

## 4. OFFERING

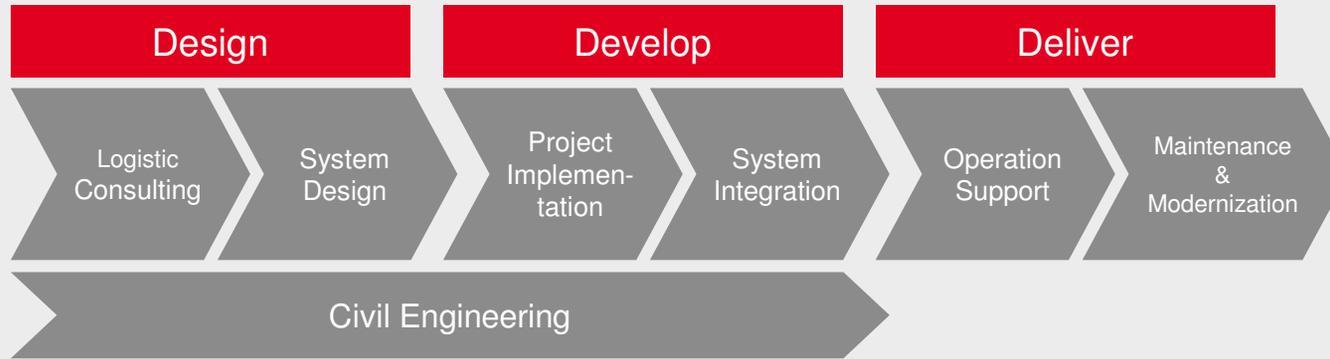
- Our Competence – Designs Your Success
- Our Approach – Develops Value for Your Business
- Our Services – Deliver You Confidence

# Our Answer

Everything from a single source

Offering

## Automated Warehouses & Distribution Centers



### Material handling technology

- Vectura Pallet stacker crane
- ProMove Pallet conveyor system
- Tornado Miniload crane
- QuickMove Light goods conveyor system
- SmartCarrier Storage & transport system
- Click&Pick Integrated AutoStore solution
- AutoStore Small parts storage for specific application
- AGV System
- Monorail System

### IT Hardware/Software & Controls

- WM 6 WarehouseManager 6 Warehouse management system incl. material flow control system, visualization and user Interface
- Box Controls for conveyors, cranes, etc. based on the Swisslog standard controls concept AutomationControls

**Sub-suppliers:** All additionally needed sub-systems



# Our Competence – Designs Your Success

Meeting tomorrow's requirements today

Offering

Industry expert knowledge across multiple industries recognizes and identifies key factors for success.

## Food & Beverage

- Understand business strategy & future needs
- Analysis on data (material flow, transport and storage units, item structures, order structures)
- Comparison of variants and utility analysis



## Retail & E-Commerce

- Optimized storage space utilization reduces the amount of space required
- High throughput rates, no seasonal labor fluctuations
- Guided picking reduces order fulfillment errors
- Fast response times, return logistics



## Pharmaceuticals

- Reduced validation costs since only critical processes need to be validated
- Automated environments eliminate process handling errors
- Transparent information flows and seamless tracking thanks to E-Pedigree process



# Our Competence – Designs Your Success

Logistic consulting & system design

Offering

Based on your business strategy we implement scalable, reliable and stress-free solutions.

## Analyze & Consult

- Understand business strategy & future needs
- Analysis on data (material flow, transport and storage units, item structures, order structures)
- Comparison of variants and utility analysis



## Plan

- Layout development based on the selected technical concept
- Material flow and process planning; definition of functions, strategies and interfaces
- IT concept (integration into existing IT infrastructure)
- Investment and operating cost analysis



## Simulate

- Checking the system performance to identify bottlenecks and oversizing
- Establishing strategies and visualizing functionalities
- Behavioral analysis in case of malfunctions



# Our Approach – Develops Value

## Project implementation & integration

Offering

We develop and engineer turnkey solutions, guarantee reduced risk and complexity by completing projects on-time & within budget.

### Project Management

- Tailor-made facility that matches optimized flow of goods
- Business and technical project management
- Overall integration
- Enforcement of cost, functional and scheduling targets



### Architectural Service

- Construction concept and feasibility studies
- Visualization/color concepts
- Detail and permit planning
- Calls for bids, execution planning and construction management



### System Integration

- Engineering, selecting and sizing the technical systems and safeguarding specification and construction of individual components.
- Control & Warehouse Management Software
- System Performance
- Trainings: From Start-up to Ramp-up



# Our Service - Delivers Value

From field service to modernization

Offering

Through inspiring service concepts we deliver proven reliability, maximum productivity and total peace of mind.

## Modernization & Upgrade

- Seamless integration during ongoing operation
- Customized modernization concepts reduce risk and complexity
- 3<sup>rd</sup> party integration



## System Operation

- Zero downtime, maximized productivity by tailored service models
- Preventive maintenance or resident service
- Spare part management



## Field Service & System Support

- Tailored service models
- Guaranteed response time 7/24
- Software support
- Protecting your investment, improving efficiency and productivity



## 5. PROVEN SOLUTION DESIGNS ... based on Key Technology

# Designing Success...

... means having the right design in place

Proven Designs

We design flexible and cost-efficient solutions, keeping you ahead of your competition.

## StackRunner

Crate/tote handling system for automatic order fulfillment by store order sequencing and automatic pallet or dolly loading.



## ZoneRunner

Efficient piece picking with automated bin replenishment to pick facade.



## AutoStore

Efficient goods-to-person piece picking from high-density storage system.



## SmartCarrier

High performance shuttle storage and retrieval system for crate/tote/cartons.



# Designing Success...

... means having the right design in place

Proven Designs

We design solutions that are adaptable, future proof and flexible, enabling you to stay ahead of your competition.

## CaddyPick

Semi-automated picking system for the order filling of pallets or roll cages.



## PalletRunner

Combined warehousing and picking through automatic put-away and replenishment of single SKU pallets.



## WarehouseRunner

High throughput automatic storage and retrieval in high bay warehouse environment.



## AGVPick

Automated pallet jacks improving traditional manual case selection process.



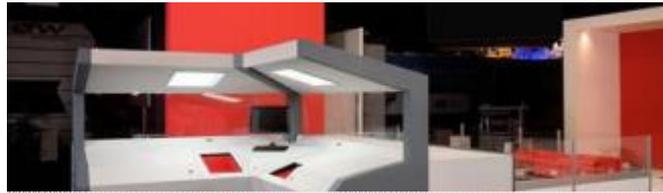
# Key Technology from Swisslog

## Light Goods & Pallet Applications

Key Technology



AutoStore



ProPick



Vectura



SmartCarrier



Monorail & AGV



Tornado



ProMove



QuickMove



Software

# Deliver Confidence...

... by using proven technology

Proven Technology

## Vectura: Pallet Crane

### Benefits

- **Excellent price / performance ratio**  
High standardization of modules and low cost of ownership
- **Reliable:** High quality design leading to less maintenance
- **Proven:** More than 2 500 cranes delivered since 1976

### Facts

- Based on a set of standard modules, up to building heights of 50 m
- Applicable for single, double and multiple-deep storage
- Temperature range -28°C to +40°C



# Deliver Confidence...

... by using proven technology

Proven Technology

## ProMove: Pallet Conveyor

### Benefits

- **High performance:** Frequency drive controls for smooth acceleration / deceleration and high speeds
- **Wide range of elements:** Delivered with wiring, motors and sensors
- **Easy to run, access and maintain:** User-friendly handling

### Facts

- Load range: Up to 1 500 kg
- Throughput of transfer unit: 250 - 350 load units/hour
- Temperature range -28°C to +40°C



# Deliver Confidence...

... by using proven technology

Proven Technology

## Tornado: Miniload Crane

### Benefits

- **Dynamic & light:** 20 % weight reduction compared to cranes of similar height
- **Easy to maintain:** High endurance and long intervals between services
- **Sustainable:** Low energy costs

### Facts

- Height: up to 20 m
- Applicable for single and double-deep storage
- Horizontal speed up to 6 m/sec
- Load range up to 120 kg
- Temperature range -28°C to +40°C



# Deliver Confidence...

... by using proven technology

Proven Technology

## QuickMove: Light Goods Conveyor

### Benefits

- **Quick & reliable:** High performance thanks to an ideal combination of proven mechanics and controls
- **Sustainable:** Efficient drive concept for optimized energy consumption
- **Modular system:** Easy expansion possible at a later date

### Facts

- Max. load up to 50 kg
- Speed up to 3.5 m/sec (belt conveyor)
- 24VDC roller conveyors / 400VAC belt conveyors
- Temperature range -28°C to +40°C



# Deliver Confidence...

... by using proven technology

Proven Technology

## ProPick: High Ergonomic Pick Station

### Facts & Benefits

- High picking performance, up to 1 000 item picks per hour due to 1:1 picking method.
- Maximized picking efficiency through optimal ergonomics.
- Operator personalization of functionalities, promoting workplace health and long-term employee retention.
- Adjustable floor and adjustable screen(s), noise protection and optimized lighting.
- Meets the common European regulations for a sustainable, safe working environment.



# Deliver Confidence...

... by using proven technology

Proven Technology

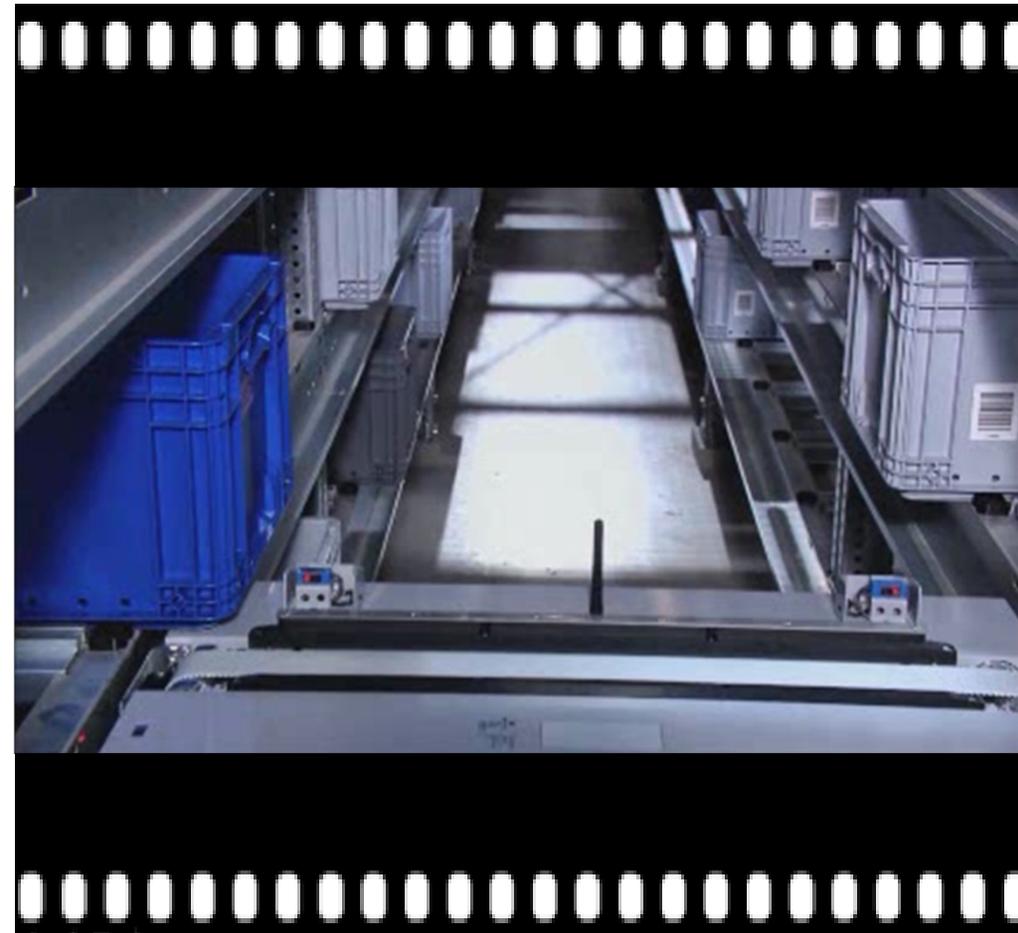
## SmartCarrier: Transport & Storage System

### Benefits

- **Scalable high throughput capability :** Easily adaptable by adding SmartCarriers
- **Flexible Solution:** Handle totes, trays and cartons
- **High reliability:** Through autonomous vehicles (SmartCarriers)

### Facts

- Payload up to 35 kg
- Storage capacity 1 500 – 5 000 totes/aisle
- Transport units are totes and trays
- Temperature range +10 °C to +40 °C



# Deliver Confidence...

... by using proven technology

Proven Technology

## AutoStore: Storage & Order Picking System

### Benefits

- **High storage density** : Due to efficient storage of high density and flexible use of floor space
- **Protection of investment**: Thanks to easy extension by adding robots/ports and extending the grid
- **Efficient item picking**

### Facts

- Height of grid max. 5.4 m, load up to 30 kg
- Bin presentation per port  
180 – max. 500 bins/h
- Temperature range +2 °C to +40 °C



# Deliver Confidence...

... by using proven technology

Proven Technology

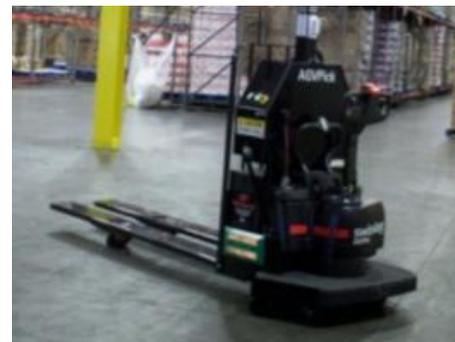
## AGV Family: Automated Guided Transport System

### Benefits

- Efficient transport system at many sources and destinations
- Avoidance of fix installations due to the need of space usage or through traffic
- Ideal price ratio for mid performance (especially in 3-shift operation)

### Facts

- **Standard AGV – the pioneer!**  
Integrated system based on fork lift truck and/or conveyor deck.
- **Hybrid AGV – the cost-efficient alternative!**  
Operation between production lines and shipping and/or warehouse areas based on fork lift truck.
- **AGVPick – a complete solution!**  
Picking system based on pallet jack.
- **CarryPro – the newcomer!**  
Mobile robots for dynamic storage and picking operation based on portable transport racks and pods.



# Deliver Confidence...

... by using proven technology

Proven Technology

## Monorail systems

### Benefits

- Very quiet and environmentally friendly
- Easy transportation via multiple levels
- Standard controls concept

### Facts

- **Standard Monorail Solution**  
For transportation mainly
- **CaddyPick Solution**  
For the combination of transportation and picking



# Deliver Confidence...

... by using proven technology

## Software & Controls Solutions

ERP System

Enterprise  
Resource  
Planning

ERP

WarehouseManager 6

Warehouse Management

Warehouse  
Management  
System

WMS

Material Flow Control

Material  
Flow Control  
System

MFS

BoxControl

Automation  
Control System

AC

SPOC 7

Single  
Point of  
Control

e.g.  
CraneSPOC

## 6. SATISFIED CUSTOMERS

### Global F&B References

# Satisfied Customers

Small selection

References

## Retail & @Logistics



## Food & Beverage



## Pharmaceutical



## Further Industries



# V&S Absolut Spirits

Åhus, Sweden

1998

## The business case:

**Background** Leading spirits manufacturer and distributor in Sweden.

**Objective** New Warehouse and Distribution Centre for spirits



## The solution:

### Storage & Material Handling

- Fully automatic delivery vehicle unloading systems.
- Pallet conveyor system.
- Automated pallet warehousing with 10 cranes, 15,158 pallet locations
- Automatic depalletisation systems and slat conveyors.

### WMS & Control

- Warehouse Management System to provide full inventory control
- Conveyor control system

## Customer benefits:

- Flexibility of handling system allows Absolut Vodka to supply orders in preferred manners – on Euro pallets, on slipsheets or as stacked cases to satisfy the customers
- Computer control allows accurate inventory and efficient transport flows
- Absolut is able to produce larger batches of each article

# Brauerei C. & A. Veltins GmbH & Co.

Grevenstein, Germany

1995

## The business case:

**Background** Leading brewery manufacturer in Germany.

**Objective** New automated logistic center for brewery



## The solution:

### Storage & Material Handling

- Highbay with 13'380 pallet locations
- 6 stacker cranes with 4 load handling units each
- Brand preparation with 47 conveyor lanes
- Electric monorail system with 27 hangers
- 2700 m pallet conveyor system with 24 vertical lifts and 8 shuttle cars

### WMS & Control

- Warehouse Management System

## Customer benefits:

- Complete control of returned empties (pallet status and crate origin, plus quantity)
- Option to extend this control down to the level of Bottles
- Empties are either put into store or, during demand peaks, can be fed directly to production

# Grolsch

Enschede, The Netherlands

2004

## The business case:

### Background

Grolsch is a beer brewery focusing on the premium segment of the market.

### Objective

Distribution Centre for beer and returnable goods.



## The solution:

### Storage & Material Handling

- Returnable goods system: Fast movers via three automated cranes, handling four pallets per cycle. Slow movers via block store.
- Full goods: all in block store.
- Monorail (675 m): transporting to and from filling lines, with 29 carriers.
- Conveyor System with Vision system for goods recognition
- Automated truck-unload and -loading systems.

### WMS & Control

- WMS for both automated and manual operations.

## Customer benefits:

- Automated product recognition of incoming empty goods.

# Ringnes

Gjelleråsen, Norway

Start of Operation: 2012

## The business case:

### Background

Some equipment are worn-out and there's a need of upgrade of the conveyors.

### Objective

Change old conveyors with new.

# RINGNES

Part of the Carlsberg Group

## The solution:

### Storage & Material Handling

- Replace part of existing 1 600 m pallet conveyor system
- Existing storage

### WMS & Control

- Existing WMS & control

## Customer benefits:

- Reduced truck driving
- Increase efficiency
- More secured and stabilized pallet transport

### Green features:

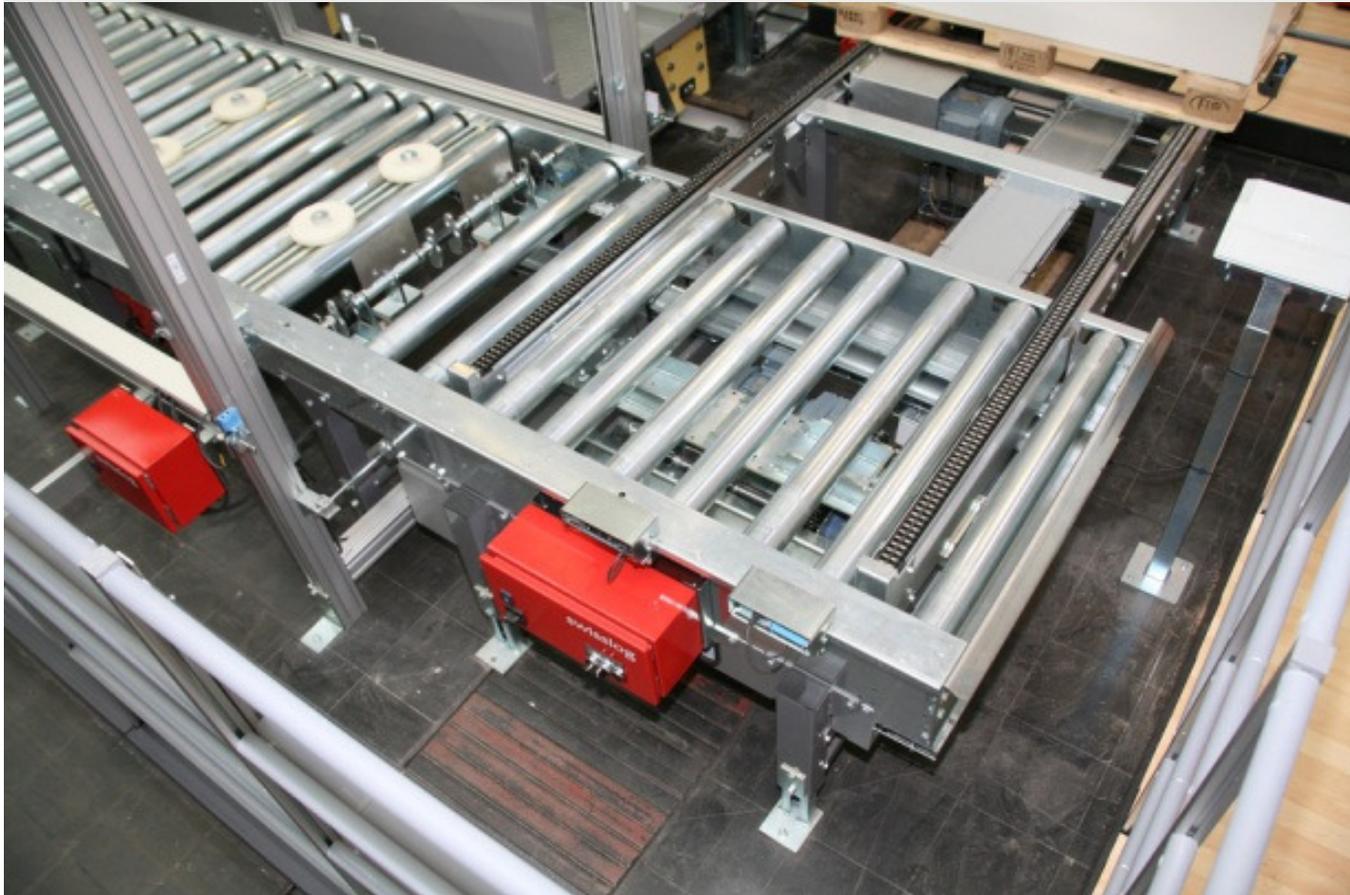
- Weight reduction & energy efficient drives, resulting in reduced lifting energy
- Recuperation and speed reduction measures
- Potential cost saving in the warehouse of >20%



# Ringnes

Gjelleråsen, Norway

Start of Operation: 2012  
Food & Beverage: Beverages



## Project Information

Ringnes AS is Norway's leading brewery company with approx. 1 400 employees. The company is owned by Carlsberg Group, the world's fourth largest brewery group.

"We deliver beer, soda and water for the entire Norwegian beverage market and we are proud of our many strong brands."

# Coca-Cola Amatil

Auckland, New Zealand

2010

## The business case:

### Background

Largest bottler and distributor of non-alcoholic beverages in APAC. 15 000 EE and MAUD 4 350 R.

### Objective

Distribution center for Coca-Cola products.



## The solution:

### Storage

- HBW Storage for 55 432 pallet, equivalent of 158 million cans
- 13 stacker cranes (28m tall)
- 12 pallets moved every min.

### Material Handling

- Monorail system: 740 pallets moved per hour
- Pallet conveyor: more than 1.5 km
- Automated loading: 6 docks, despatch 1 truck per 4 min.

### WMS & Control

- WarehouseManager
- AutomationManag
- Swisslog SPOC

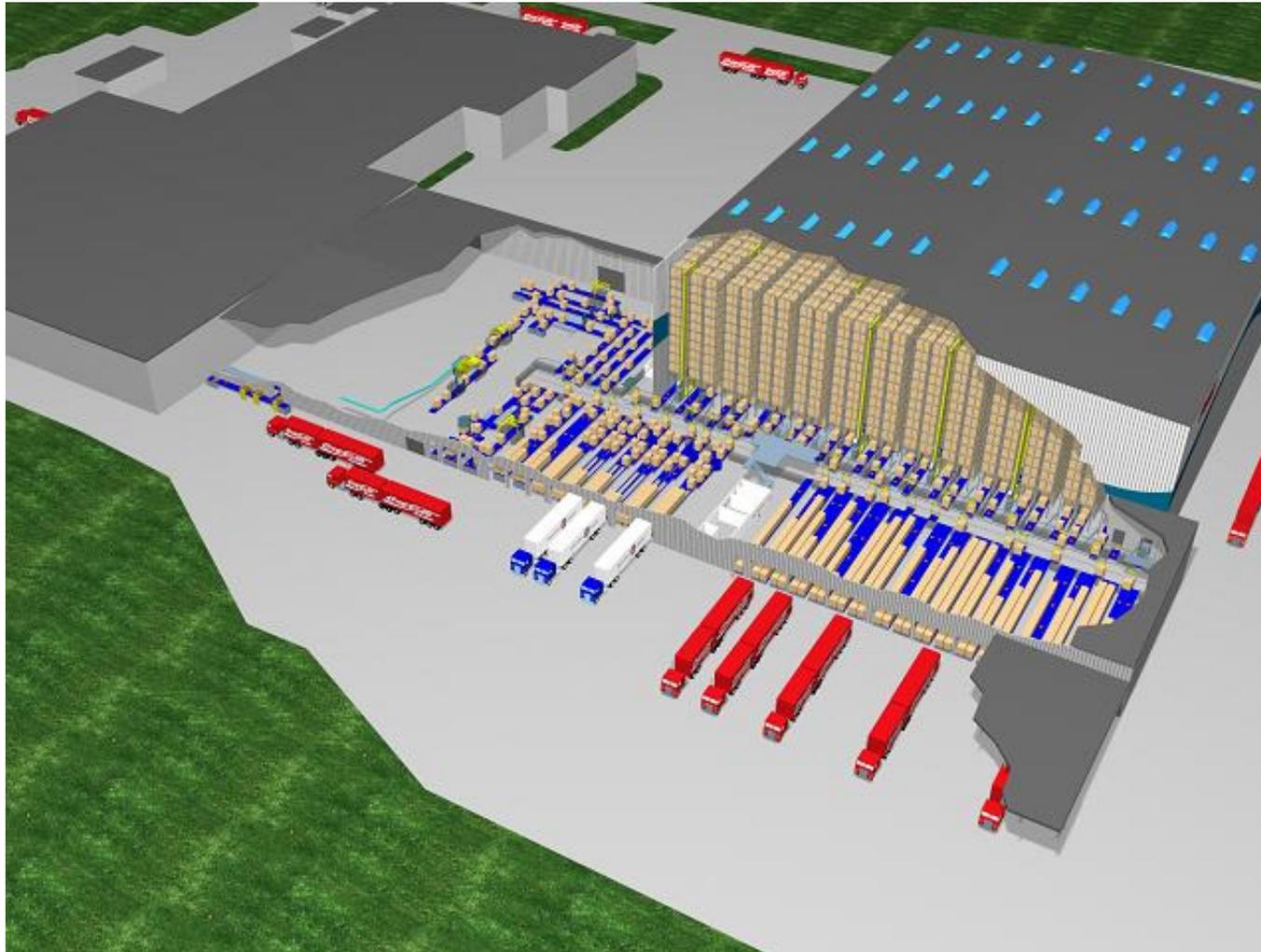
## Customer benefits:

- Accuracy of inventory and on-time dispatch
- Improved customer service levels
- Efficiency of operation (the site runs with just 6 staff to move 8 000 pallets/day)

# Coca-Cola Amatil

Auckland, New Zealand

2010



*“The quality of solution offered by Swisslog outstripped their competitors and reflected their knowledge of CCA’s business needs.”*

*Derek O’Donnell  
Logistics & Planning Manager*

# Tine SA

Oslo, Norway

2010

## The business case:

### Background

Norway's largest producer, distributor and exporter of dairy products. 5 500 EE and BNOK 19.4 R.

### Objective

New Greenfield Warehouse and distribution centre.  
Consolidation of 5 warehouses.



## The solution:

### Storage

- Two high bay warehouses
- Special Pallets to handle 4 RC's
- HBW 1 & 2 (6+5 cranes)

### Material Handling

- Pallet conveyors
- ORM for Blue Trays
- Monorail system
- ORM for Roll Containers
- Pick-by-voice

### WMS & Control

- WarehouseManager
- AutomationManag
- SPOC (Single Point of Control)

## Customer benefits:

- Better area utilization, that leads to reduction in building costs.
- Flexible and simple solution that creates better ergonomics for employees.
- Releases high frequent products to order quickly, with right sequence.

# Tine SA

Oslo, Norway

2010



“We have chosen Swisslog as the supplier for TINE’s new warehouse and distribution centre as Swisslog draws on an international network of specialists who work and share knowledge across countries and disciplines. This, combined with a close cooperation, will guarantee (no for) a successful project.”

*Ole Erik Hulleberg,  
Logistics Manager, TINE SA,  
Oslo, Norway*

# WHY Swisslog?

## What customers say

## References – Option b



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*«Swisslog has proven to be the right solution provider for Wal-Mart for our grocery distribution. A decisive factor in choosing Swisslog as our partner was its experience in the sector, leadership, creativity and methodological approach. An outstanding, global team has developed convincing solutions for our specific requirements in the distribution of chilled food.»*

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**Rollin Ford**  
Vice President of Logistics  
Wal-Mart  
Houston, USA



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*«We have chosen Swisslog as the supplier for TINE's new warehouse and distribution center as Swisslog draws on an international network of specialists who work and share knowledge across countries and disciplines. This, combined with a close cooperation, will guarantee a successful project.»*

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**Ole Erik Hulleberg**  
Logistics Manager  
TINE SA  
Oslo, Norway



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*«Swisslog has been the right choice for our new deep freeze warehouse with a fire prevention system based on oxygen reduction. Investing in a solution from a single integrator was the correct decision for us. Swisslog was convincing from the planning phase onwards with its highly competent consulting.»*

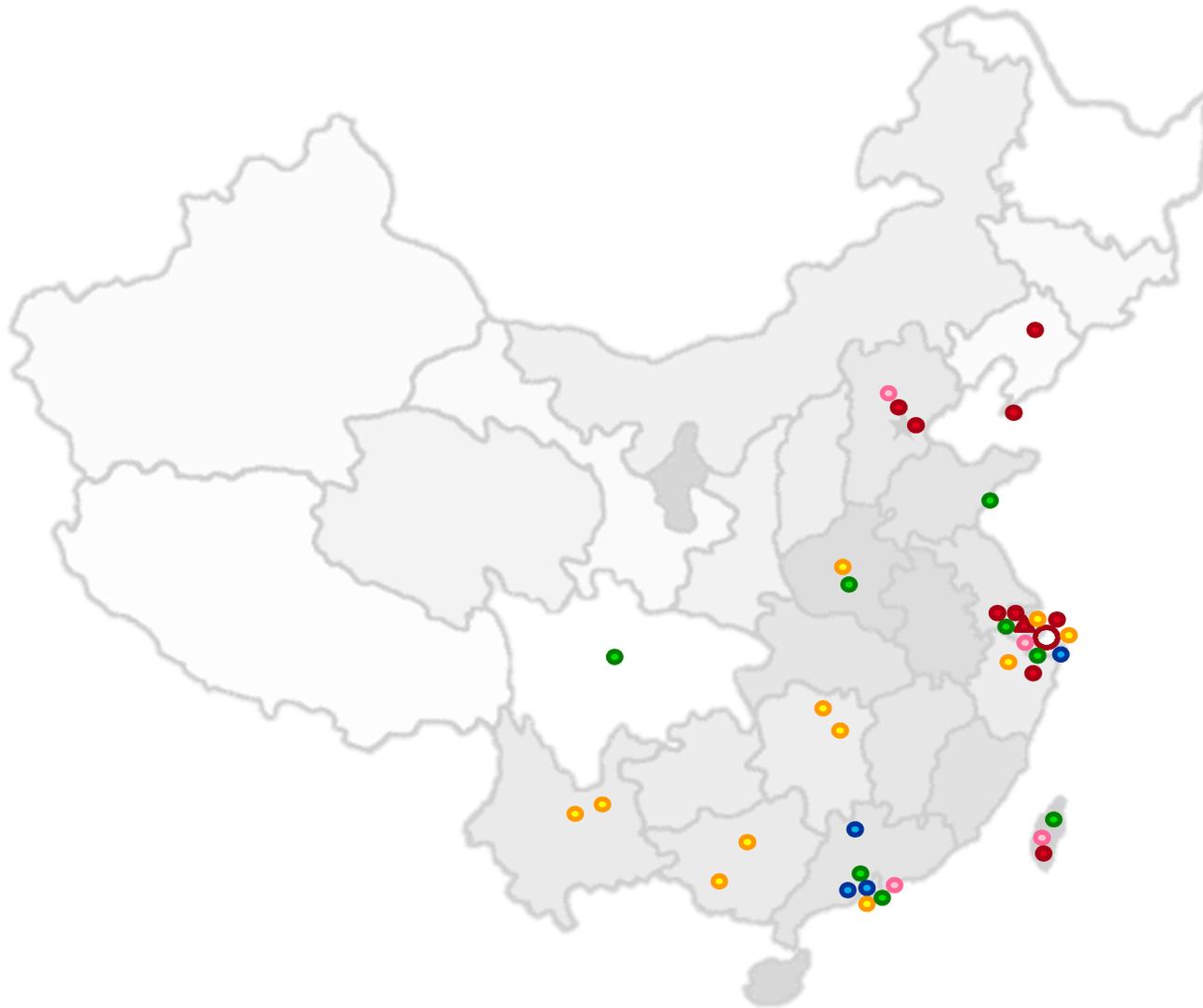
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**Stefan Stucky**  
Head of Logistics  
LONZA AG  
Visp, Switzerland

## 7. REFERENCES IN CHINA

# Reference in China

## Successful References in Multiple Industries



- Industry segments:
- F&B
  - Tobacco
  - Pharmaceutical
  - Retail
  - Others
  - HQ in APAC
  - ▲ Factory

Successful references with complex installations:

- PBOC Key Vault
- Shanghai Haiyan Logistics
- Wyeth Nutribution Suzhou
- Coca Cola Dongguan
- Hangzhou Cigarette Factory
- Livzon Pharmaceutical
- ○ ○ ○

# COCA-COLA DONGUAN, CHINA, 2007~2010

Food & Beverage: Soft Drinks

## THE CUSTOMER:

### BACKGROUND

Leading Beverage company world wide

### PURPOSE

Warehouse for storage & distribution of Finished Goods



## THE SOLUTION:

### STORAGE

- Freestanding rack, Height = 22m
- 15'776 Double Deep pallet locations
- 7 Vectura cranes
- Installed by 3 phases.

### MATERIAL HANDLING

- Pallet conveyors
- Pallet lifters

### WMS & CONTROLS

- WarehouseManager
- AutomationManager
- AutomationControl

### BENEFITS

- Seamless conjunction with production line.
- Fully automated system to handle with high throughput. Less dependent on labor availability.
- High density of storage with double deep solution.



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# SHANGHAI ZIQUAN BEVERAGE CO., LTD. SHANGHAI, CHINA, 2011

Food & Beverage: Soft Drinks

## THE CUSTOMER:

### BACKGROUND

One of China's leading OEM bottlers.

### PURPOSE

Warehouse for storage & distribution of Finished Goods



## THE SOLUTION:

### STORAGE

- Freestanding rack, Height = 20m
- 11, 630 Double Deep pallet locations
- 5 Vectura cranes

### MATERIAL HANDLING

- Pallet conveyors
- Pallet lifters
- Shuttle cars

### WMS & CONTROLS

- WarehouseManager
- AutomationManager
- AutomationControl

### BENEFITS

- Seamless conjunction with production line.
- Fully automated system to handle with high throughput. Less dependent on labor availability.
- High density of storage with double deep solution.



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# PFIZER CHINA NUTRITION CO., LTD. SUZHOU, CHINA, 2010

Food & Beverage: Nutrition

## THE CUSTOMER:

### BACKGROUND

World leading pharmaceutical and nutrition company.

### PURPOSE

HBW of Finished Goods and Raw Materials for milk powder.



## THE SOLUTION:

### STORAGE

- Freestanding rack, Height = 21m
- 9,274 Double Deep pallet locations
- 5 Vectura cranes

### MATERIAL HANDLING

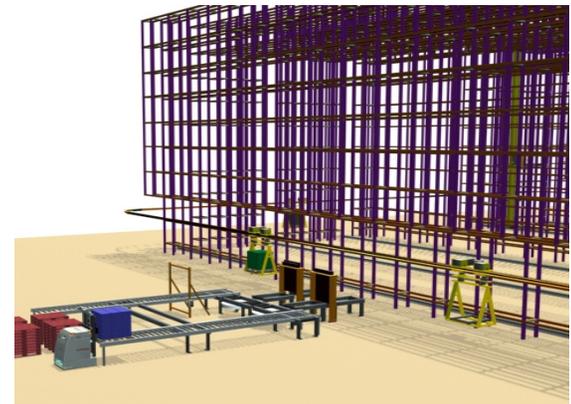
- EMS loop surrounding high bay warehouse, 10 carriers along 250m rail, 343 pallets/hr.
- AGV
- Conveyors

### WMS & CONTROLS

- WarehouseManager
- AutomationManager
- AutomationControl

### BENEFITS

- Seamless conjunction with production line.
- AGV transportation keeps environment clean and human safe.
- EMS system is flexible and efficient, handling high throughput in long distance.



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# Shanghai Haiyan Logistics Development Co., Ltd. Shanghai, China, 2005

Tobacco

## THE CUSTOMER:

### BACKGROUND

One of the biggest Distribution Centers in China

### PURPOSE

DC for tobacco, alcohol and sugar in Shanghai area.



## THE SOLUTION:

### STORAGE

- HBW with 17 SRM for tobacco storage, non-tobacco storage and replenishment
- 24,000 PL for storage, 5,000 PL for picking & replenishment

### MATERIAL HANDLING

- Pick to belt system with 3,200 picking faces
- Cross belt sorter with 40 chutes
- A-frame sorting system
- Pick to light
- Conveyors and lifters

### WMS & CONTROLS

- WarehouseManager
- AutomationManager
- AutomationControl

### BENEFITS

- Swisslog's WMS seamless interfaced with SAP, managing all subsystems from one end.
- Efficient picking and on-time consolidation of A, B and C items.



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# Livzon Group Livzon Pharmaceutical Factory ZHUHAI, CHINA, 2011

Pharma



## THE CUSTOMER:

### BACKGROUND

One of the top50 China leading Pharmceuticals companies

### PURPOSE

HBW&Automated system of raw material to supply to production line and finished products to warehouse

## THE SOLUTION:

### STORAGE

- 15 SRM EcoStore,
- 24,000 pallet locations,
- pallet conveyer
- EcoMove, 6 circulating shuttle cars,

### MATERIAL HANDLING

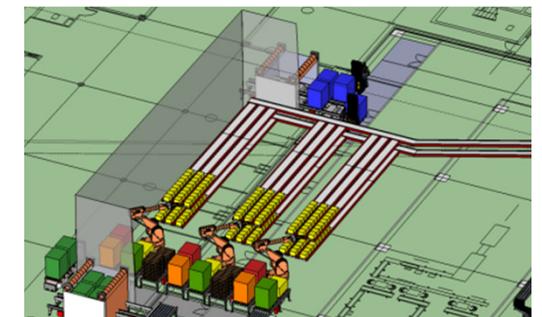
- 3 AGV, 3 picking stations,
- 1 pallet washing machine, 1 robot,
- case conveyer, 10,000 plastic pallets withRFID,

### WMS & CONTROLS

- Swisslog自动化管理器
- Swisslog单点控制
- Swisslog仓库管理器
- WMS

### BENEFITS

- Maximum number of storage locations with minimized space
- Automated system to handle with infeed, outfeed and replenishment. High efficiency and less dependent on labor availability.
- Integrated into SAP from which receives orders and handles automatically.



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