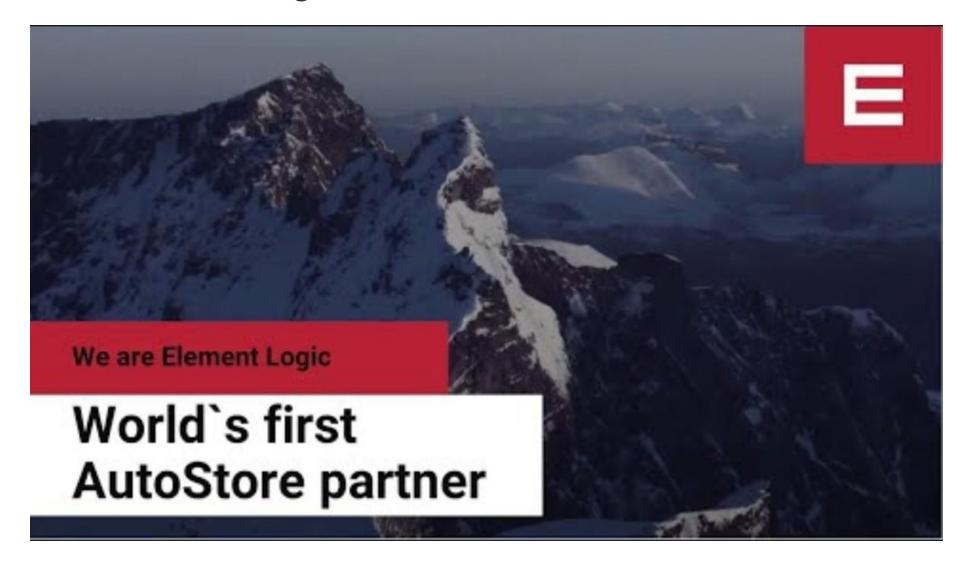
We are Element Logic











Automation – The Element Way

ELEMENT

Agenda Element in a nutshell Design for the future eSuite Software – You are covered Automation technology By Element



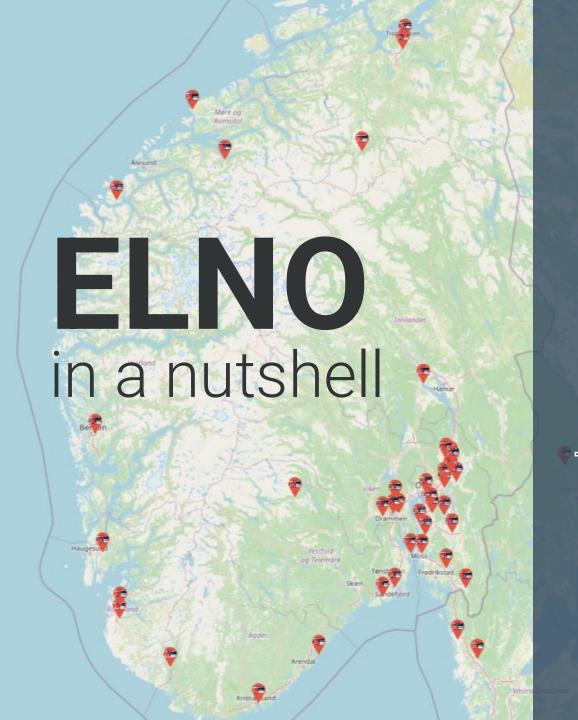


Introduction – Element Logic

- Established in 1985 and privately owned
- System integrator of material handling solutions
- Spesialists on AutoStore and system integration
- Represented in Norway, Sweden, Denmark, Finland, Germany, BeNeLux, Poland, France, Spain, Italy, Czech, UK and USA
- 900+ employees and growing
- 380 ++ installed AutoStore systems
 - Income of approx. 500 000 EUR in 2023







69 installations (2 on Iceland)

59

customers

57 has eManager

Average installation in Norway:



20 robots



5 ports



25 000 bins

35% classified as C1 projects



DL. **30**

R5: **1 442**



Carousel ports: 382



Relay ports: 1

Swing ports: 4



Bins: 1,8 mill







Designed for the future

Futureproofing your Investment



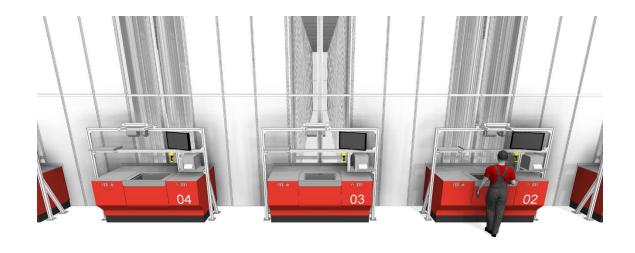
Levels of automation



From stand alone to complex automation, ready from **start**



1st. Level of automation Stand-alone workstation



Description

The first level of automation is a stand-alone workstation which provides the maximum flexibility for the workstation design. The setup offers sufficient room for pallets, packing tables or putwall-frames to implement the right picking strategy for your business.



Shown setup of configuration

Overhang with mezzanine

Workstation equipment
frame

Pick-by-light bin pointer

Put-to-light labels

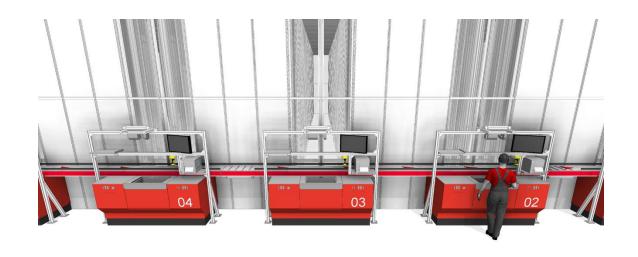
Putwall-frames



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2 nd. Level of automation

Workstation with automated downstream transportation



Description

The next level of automation upgrades the solution with a takeaway conveyor technology. This automates the passing on process and increases the efficiency of the picking operator.

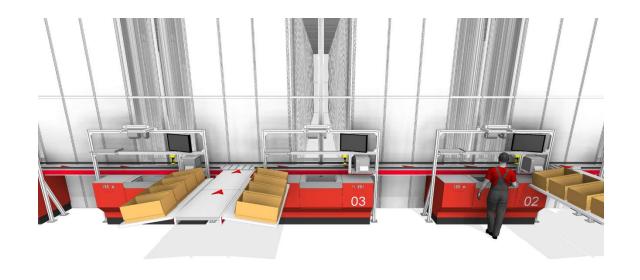


Shown setup of configuration



3 rd. Level of automation

Workstation with automated downstream transportation



Description

The next level of automation upgrades the solution with a takeaway conveyor technology. This automates the passing on process and increases the efficiency of the picking operator. For order structures with possible batching factors, the multi-order picking option can maximize the efficiency of your workstation.



Shown setup of configuration

 Overhang with mezzanine
 □ Pick-by-light bin pointer
 ☑

 Workstation equipment frame
 ☑ Put-to-light labels
 ☑

 Multi-order-picking conveyor
 ☑ Downstream transportation
 ☑



4 th. Level of automation

Workstation with automated downstream transportation



Description

The next level of automation provides a full automation of all processes around the picking process.

Preerected, empty cartons are supplied with conveyors to the workstation. The setup of the takeaway conveyor enables multi-order-picking operations and therefore optimizes the efficiency of the system. With an easy push of finished cartons, the orders are taken away and automatically transported to the next process. This ensures the ideal environment for efficient picking operations.



Overhang with mezzanine Workstation equipment frame

Multi-order-picking conveyor

☐ Pick-by-light bin pointer

✓ Put-to-light labels

Downstream transportation

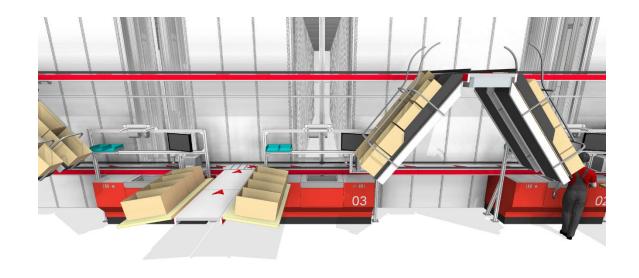


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 $\overline{\mathsf{V}}$

5 th. Level of automation

Workstation with automated downstream transportation





Description

The next level of automation provides a full automation of all processes around the picking process.

Preerected, empty cartons with different footprints are supplied with conveyors to the workstation. The setup of the takeaway conveyor enables multi-order-picking operations and therefore optimizes the efficiency of the system. With an easy push of finished cartons, the orders are taken away and automatically transported to the next process. This ensures the ideal environment for efficient picking operations.

Shown setup of configuration

 Overhang with mezzanine
 □ Pick-by-light bin pointer
 ☑

 Workstation equipment frame
 ☑ Put-to-light labels
 ☑

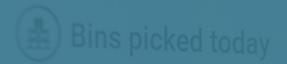
 Multi-order-picking conveyor
 ☑ Number of carton footprints
 2





eSuite Software





2558

The Software ecosystem

Handling time





AutoStore



Robotics solutions



Material flow handling

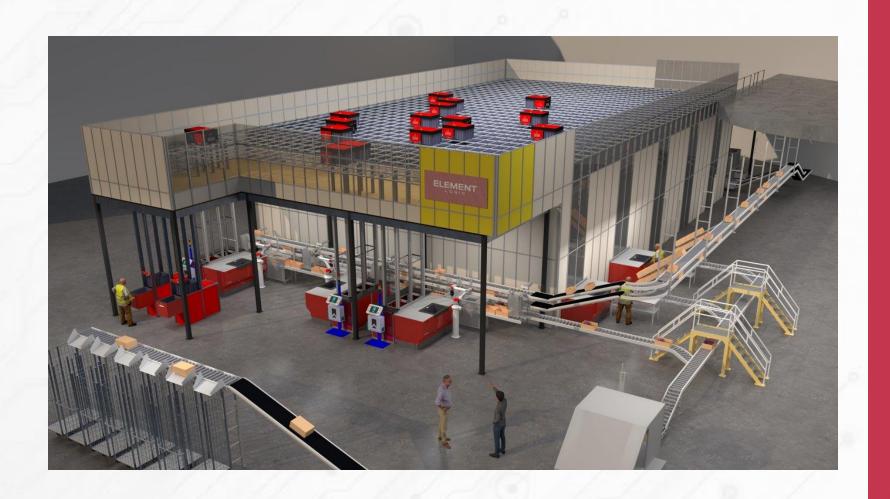




Automation By Element



Automation By Element Conveying technologies

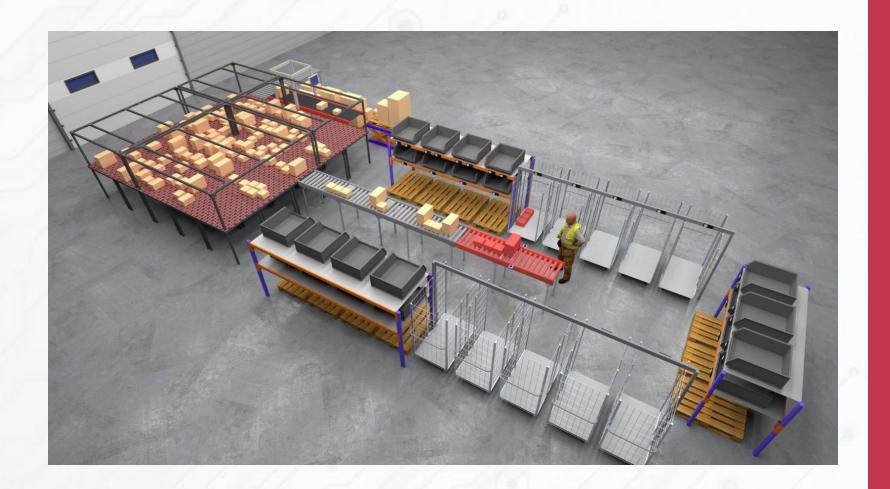


Multiple levels of use, from simple takeaway conveyors to fully connected systems with complex material handling equipment.

Software: eController / eOperator



Automation By Element OmniMod – The new item mover



Sort: Stand-alone system or with automated input/output

Sequence: Sequencing with single input/output or several inputs and outputs. Can be sequenced based on weight, ID, or any other parameters

Buffer: Parcels enters the system continuously and a subset of parcels leaves the system at a given time.



Automation By Element eOperator – Robot piece picking



System that empowers robotic pieces picking from AutoStore or pick facades

Piece picking or order staging

Standardized for easy implementation

RaaS ready

Software: eOperator / eHub



eOperator by Element Logic - Video





AMR Product Family Connect Your Warehouse

Storage and Transport Sort Retrieval

Element Logic has a range of AMRs to automate operations and connect with your AutoStore



Automation By Element AMR's – Connect your warehouse





Connect your AutoStore and warehouse with autonomous vehicles

Wide range of configurations

Flexible and scalable

RaaS ready

Software: eOperator



Examples of automation



Automation connected to AutoStore













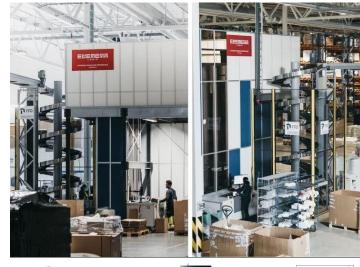
Berggård Amundsen – Ski, Norway













20 000





- Electrical wholesaler
- B2B
- Take-away bands with spiral lifts and sorter for packed goods
 996 517 bin presentations in 2022



Komplett - Sandefjord, Norway













106 000



89



30

- Electronics
- B2B & B2C
- Take-away conveyer for picked orders, carton erector and lid applicator
- Aprox. 2 700 000 bin presentations in 2022
- Transfer cell for inbound outside of AutoStore



Boozt – Ängelholm, Sverige

Boozt











1 245 000





- Clothing
- Biggest AutoStore in the world B2C
- Three separate grids
- eManager
- Take-away conveyer for picked orders



Apotea – Uppsala, Sverige













20 000



35



4

- Pharma
- B2C
- eManager
- eOperator First operative
- Aprox. 770 000 bin presentations in 2022 (only 3 months)
- Take-away conveyer for picked orders, box erector, lid applicator and sorter.



MEKO - Vestby, Norway











110 400



60



34 + 4 frames

- Consists of Mekonomen, Meca and Sørensen & Balchen
- Wholesale for automotive spare-parts
- eManager
- New warehouse in Vestby
- Largest player in Northern Europe in the vehicle market
- · Already had one smaller AutoStore to begin with
- Waist conveyer band, bin lifts, pigeon walls, buffer solution, automatic palletizer robot, sorter and chutes



Some of our happy customers - Global





Thank You!

