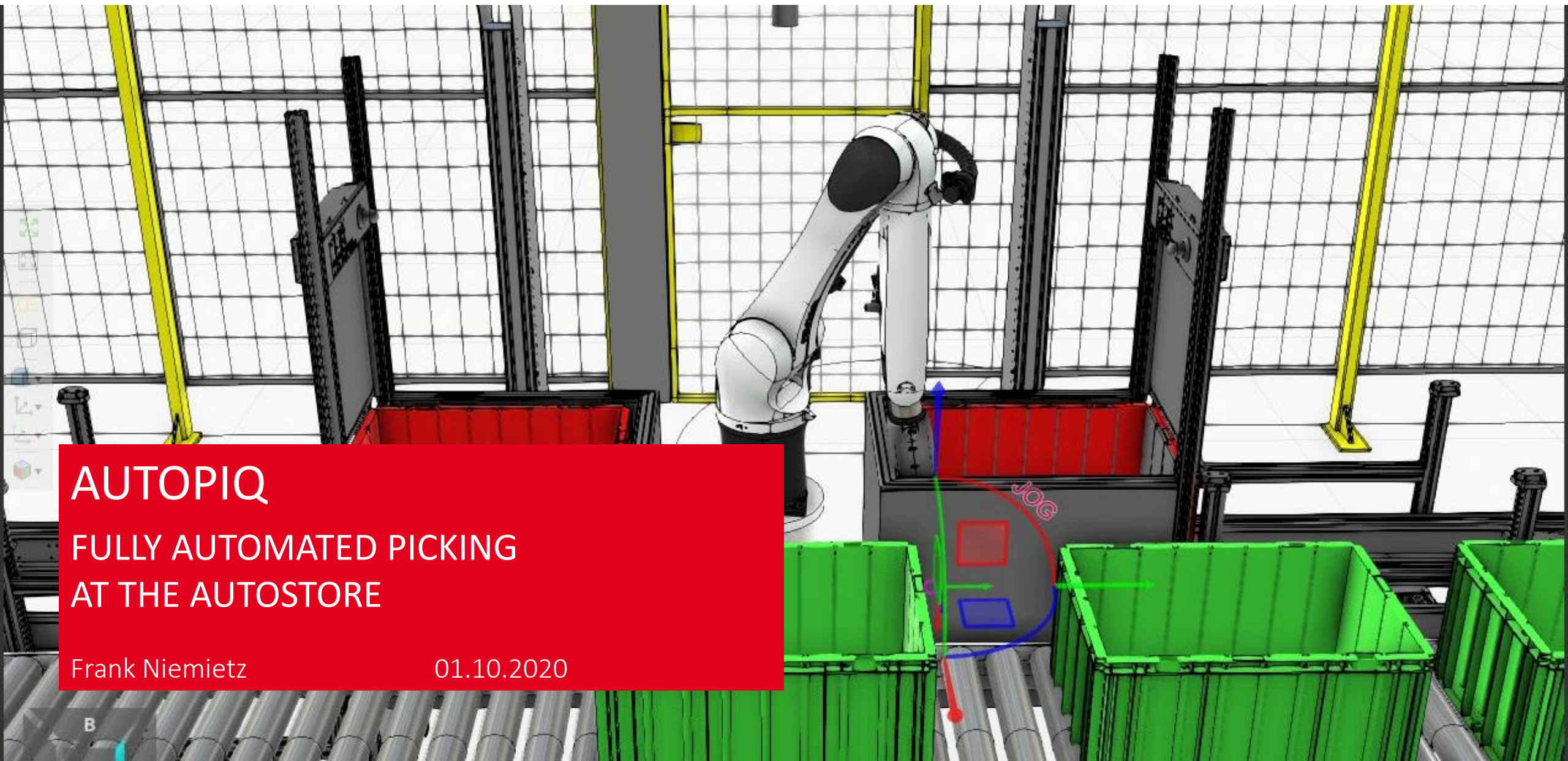


AUTOPIQ

FULLY AUTOMATED PICKING
AT THE AUTOSTORE

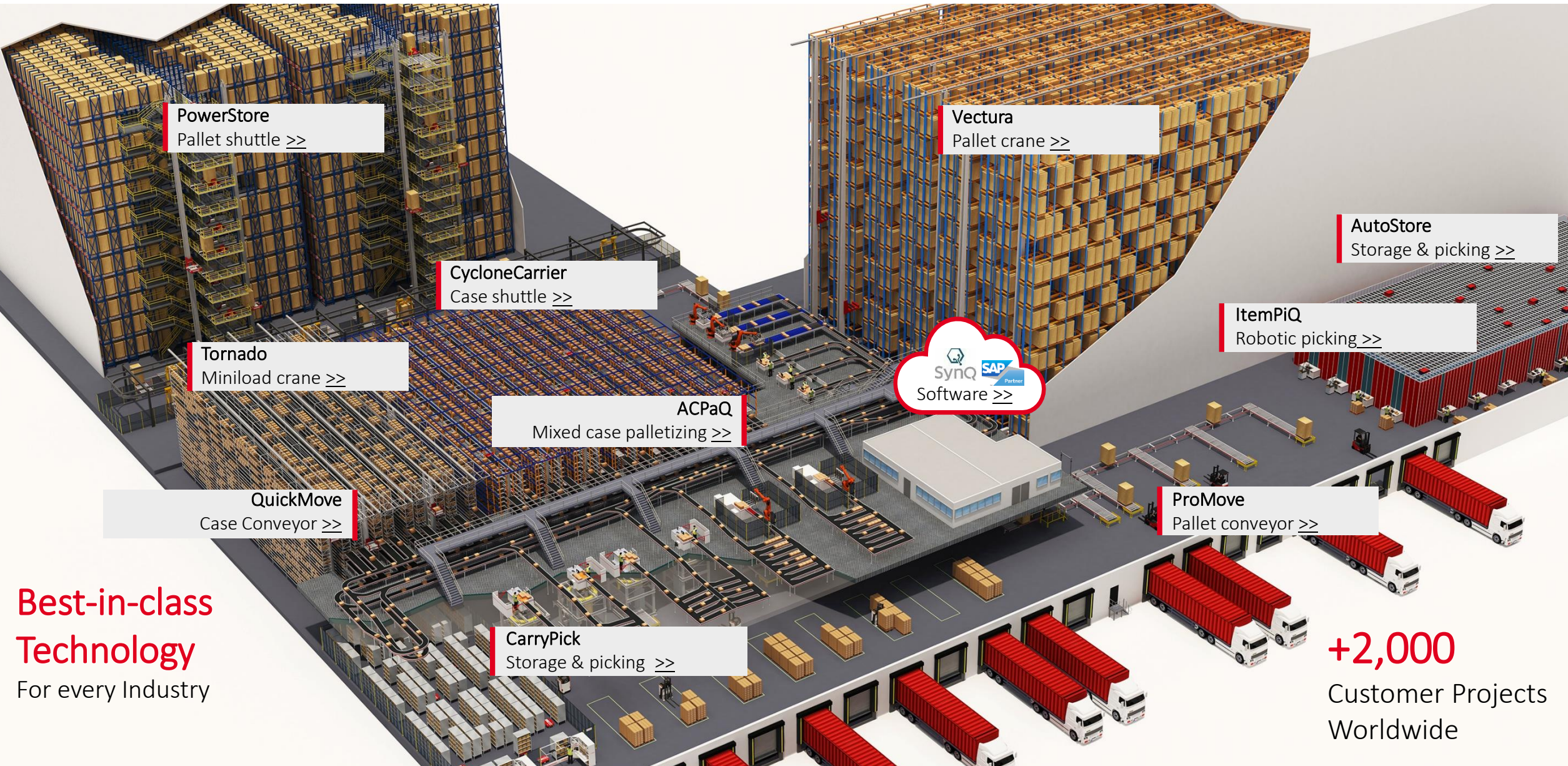
Frank Niemietz

01.10.2020





WE SHAPE
THE FUTURE OF
INTRALOGISTICS
BY INTRODUCING A
NEW ERA
OF ROBOTIC, DATA-DRIVEN
AND FLEXIBLE AUTOMATED
SOLUTIONS
THAT CREATE EXCEPTIONAL
CUSTOMER VALUE



PowerStore
Pallet shuttle >>

Vectura
Pallet crane >>

CycloneCarrier
Case shuttle >>

AutoStore
Storage & picking >>

Tornado
Miniload crane >>

ItemPIQ
Robotic picking >>

ACPaQ
Mixed case palletizing >>

SynQ SAP Partner
Software >>

QuickMove
Case Conveyor >>

ProMove
Pallet conveyor >>

CarryPick
Storage & picking >>

**Best-in-class
Technology**
For every Industry

+2,000
Customer Projects
Worldwide



AUTOSTORE POWERED BY SWISSLOG



AutoStore

Five key components



Robot

The hard workers that dig, organize and transport the bins.
Remote Controlled
Battery Powered
8 Wheels



Bin

The standard inventory container of AutoStore. There are two Height Options available.



Grid

Self-supported aluminum grid with robot rails. Erector set construction. Modular concept.



Ports

Where put away and picking is performed. Different options available.



Software

The brains of the system.
A standard warehouse management software designed by Swisslog for AutoStore solutions.

Space saving storage and picking system

Meeting the most challenging requirements

AutoStore

Do you want to store a large number of small parts while increasing storage density and remaining very flexible? AutoStore is a highly efficient robotized storage and order processing solution that integrates easily into existing buildings.



1. Density



60% reduction of space

2. Scalability



Scale whatever you need

3. Flexibility



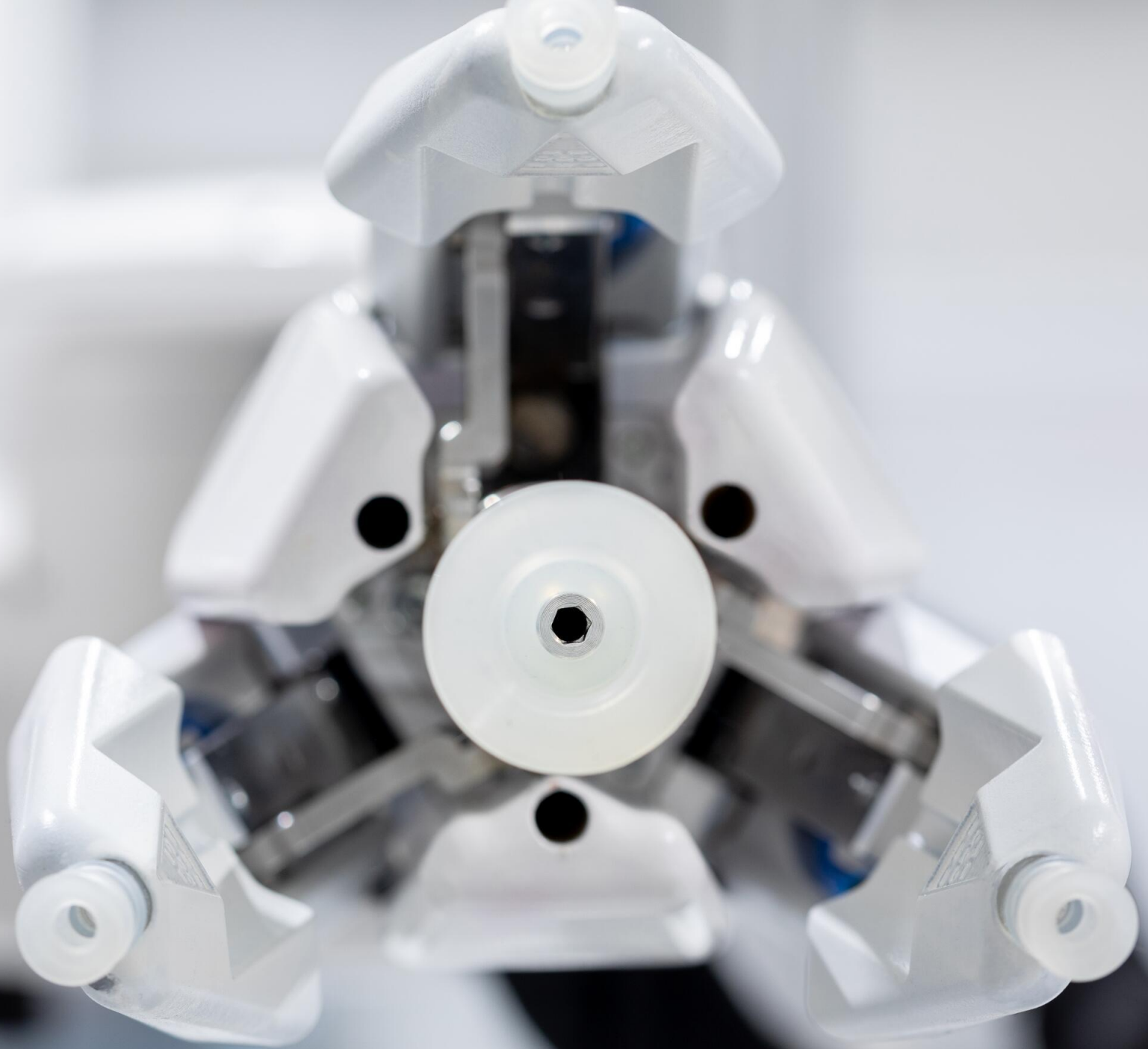
Build around obstacles

4. Energy efficiency



10 robots = 1 toaster

SWISSLOG ITEMPIQ



Main components

ItemPiQ comes with high-end software & hardware



Robot Agilus 1100

High performance robot with 1,100 mm reach



Controls

Standard KUKA Controls Cabinet



Multi-functional gripper

Unique gripper allows picking of a wide range of products of different shapes and sizes.



Intelligent Vision System

3D vision technology for object recognition.



Software

The brain of the system. SynQ Box for machine & fleet learning

ItemPiQ robot cell

Facts & figures



Standard interface to any WMS

Robot reach 1,100 mm

max. 1,5 kg

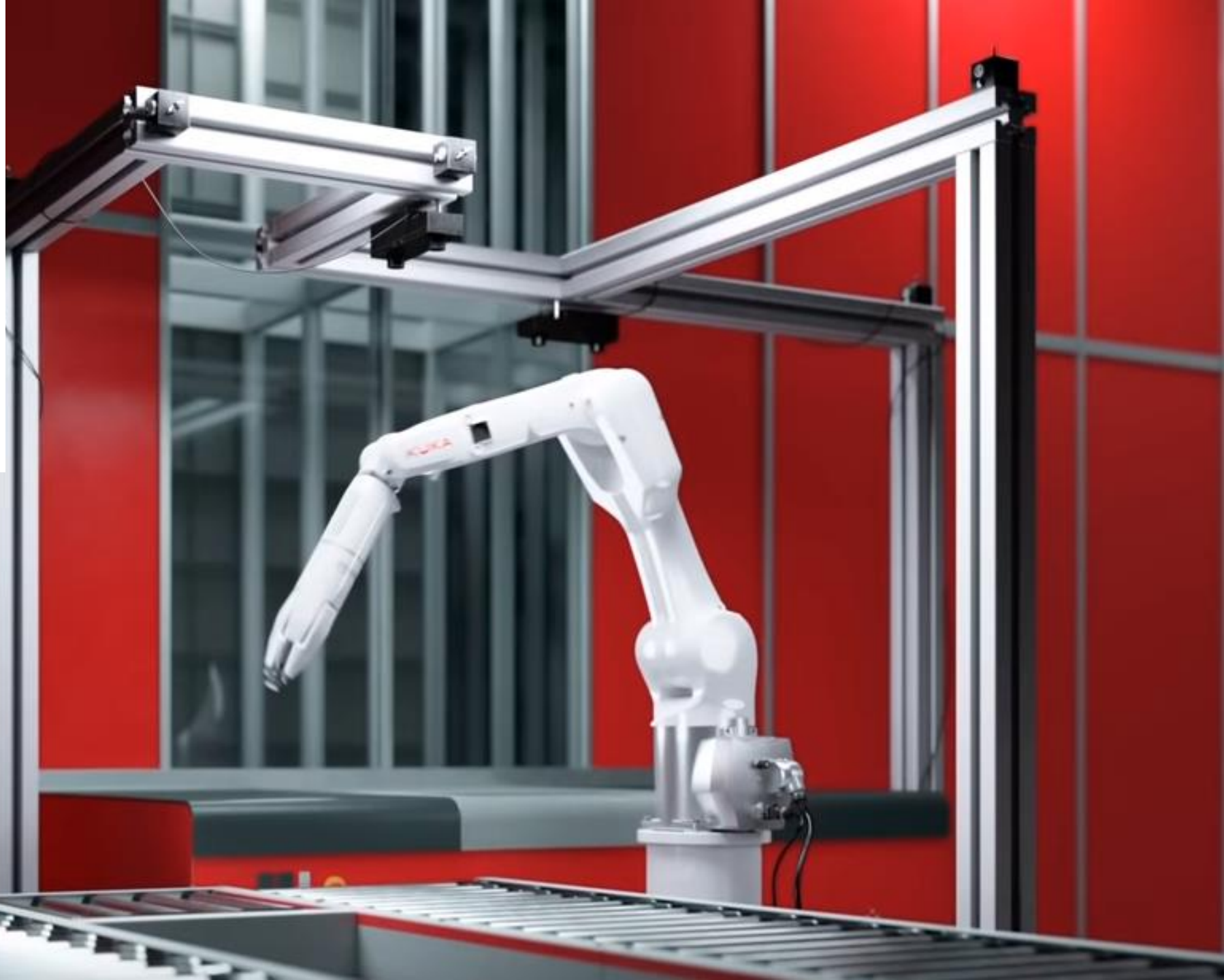
Up to 1,000 picks/h

Max. bin/carton dimensions
650 x 450 x 400 mm

Product dimensions
25 x 20 mm

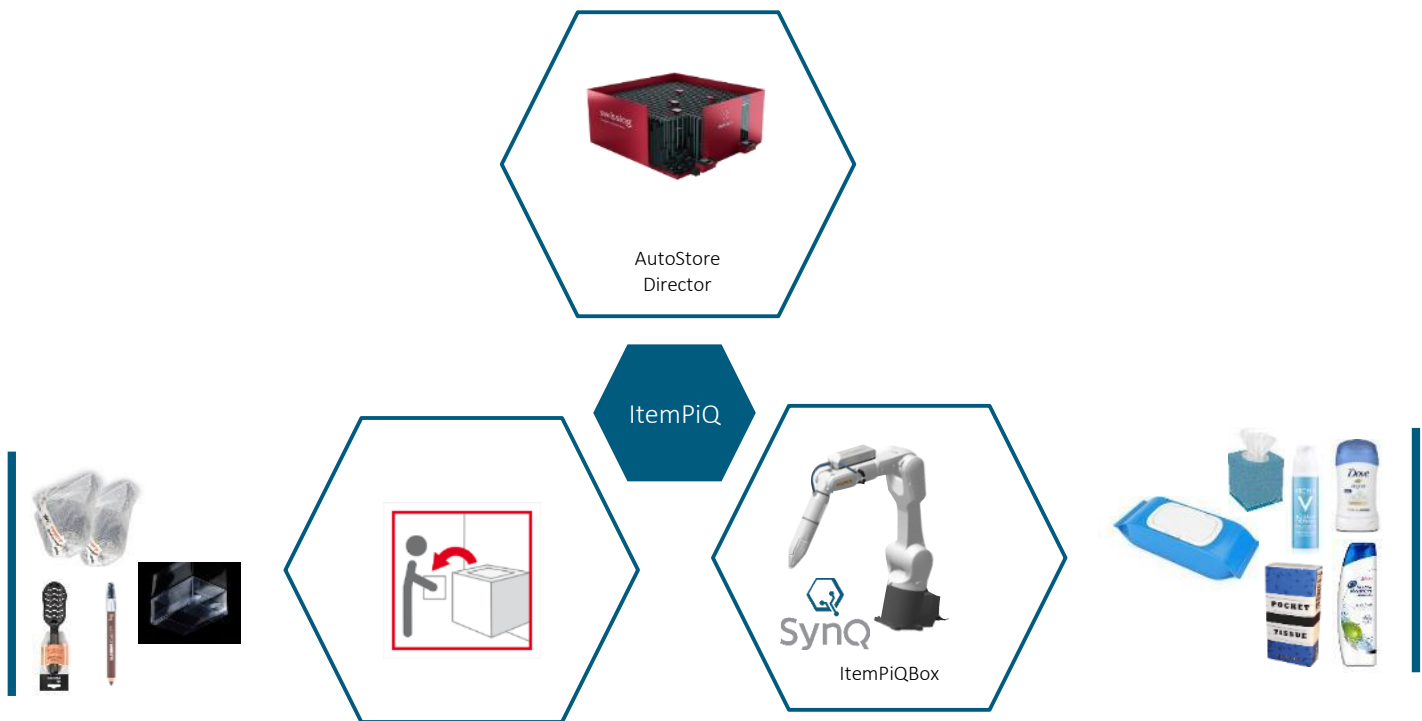


DREAM
TEAM



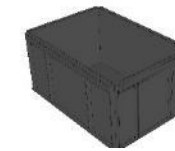
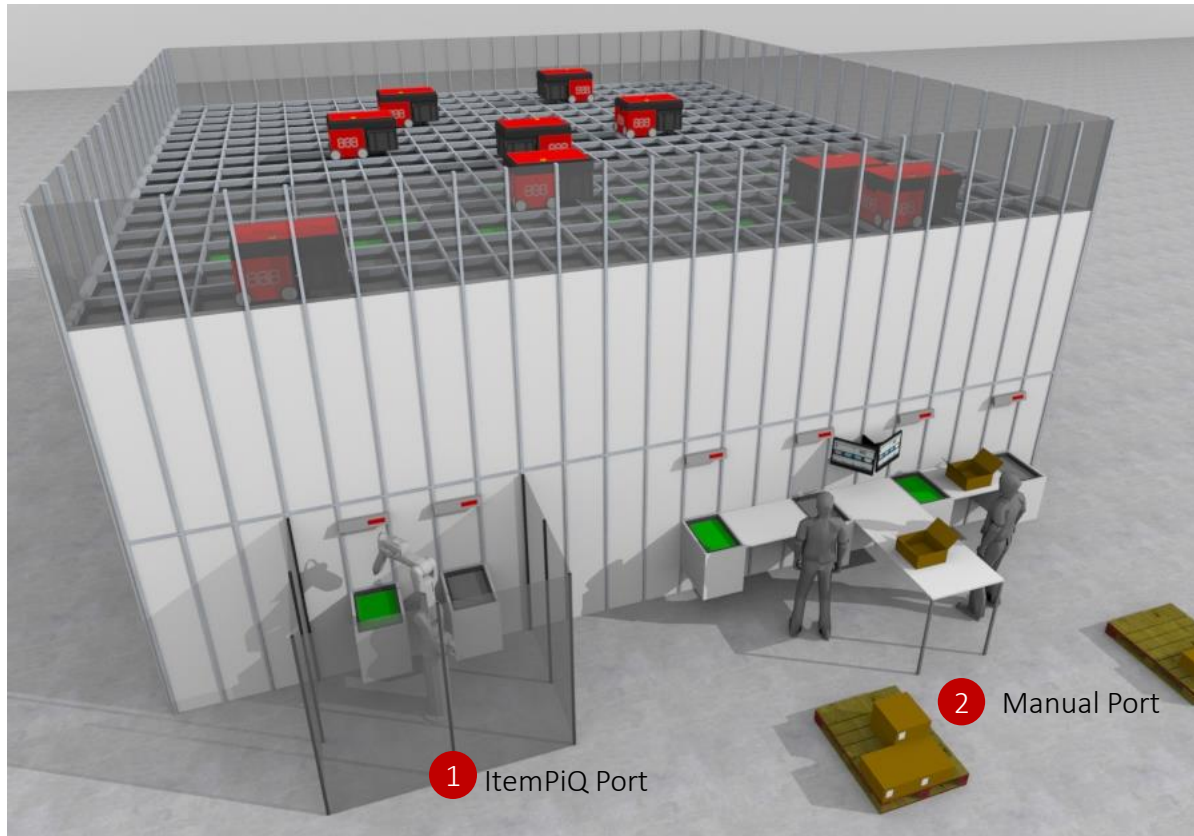
ItemPiQ

Makes sure the right products are assigned to the robot

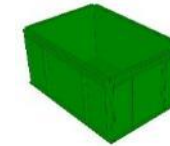


ItemPiQ & AutoStore

Example Solution – Process Description



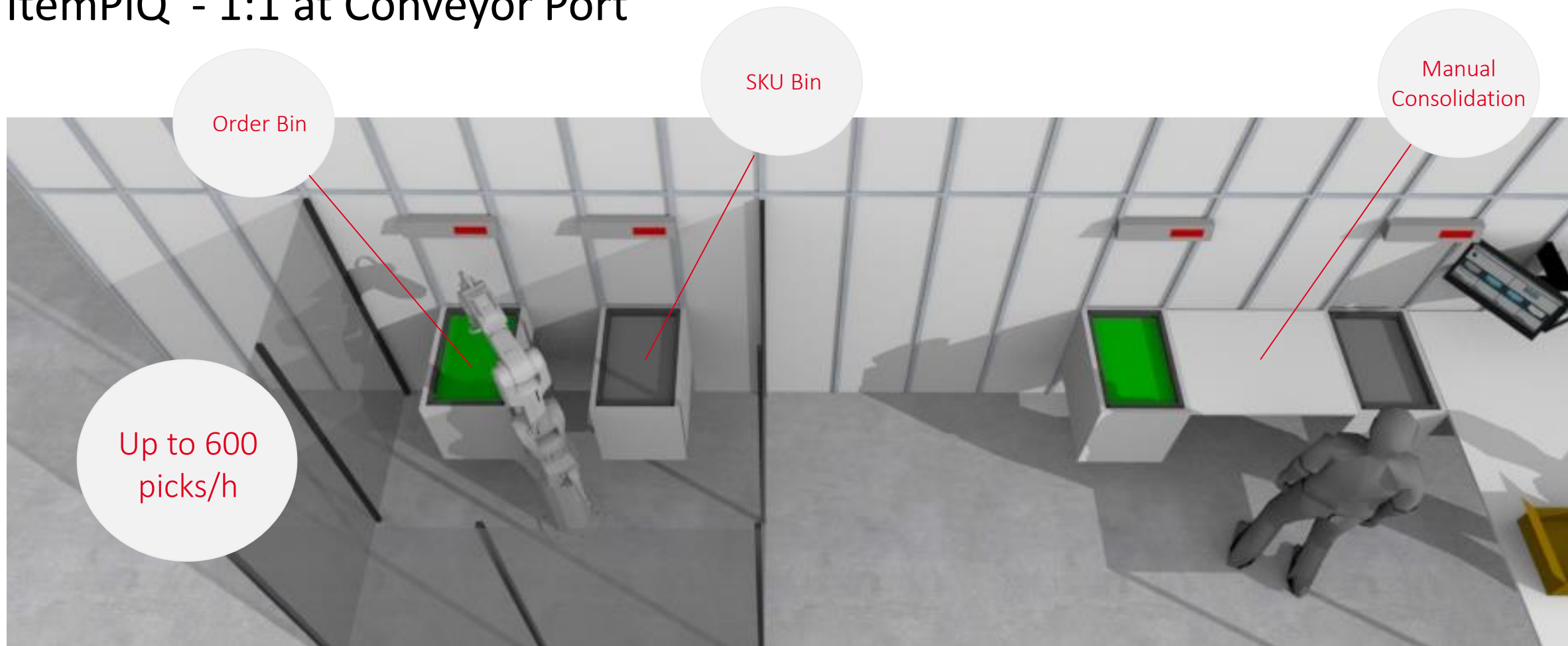
Grey Bin = Storage Bin



Green Bin = Order Bin

1. Green Bin (Order Bin) is sent to the ItemPiQ Robot Station
2. Robot is picking orderlines from Grey Bin
3. Green Bin is sent back to AS for temporary storage
4. Green Bin is brought out for Consolidation/Packing

ItemPiQ - 1:1 at Conveyor Port



Value proposition of the Port to Port solution

Customer Benefits & USPs

Benefits for the customer

- Extension of the working time without additional human work force
- The pre picking (at night) could influence the needed # of AutoStore robots (additional savings) (break the peaks of a day)
- Integration in AutoStore workflow
- No additional transport system needed
- Small footprint
- Retrofit possible
- Easy set up

Swisslog USPs

- All in SynQ (one Software fit's all technologies)
- Long term experience of AutoStore
- Fast and reliable robot





Swisslog shapes the future of intralogistics with robotic, data-driven and flexible automated solutions that achieve exceptional value for our customers.

www.swisslog.com

Swisslog is a member of the KUKA Group, a leading global supplier of intelligent automation solutions.

www.kuka.com

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