Düsseldorf, 11. 10 2023

Welcome.

**Πονυ** 

#### Who we are.

# No warehouse left behind.

#### Why we exist

We're here to make warehouse automation easier, helping businesses make storage, retrieval, picking and fulfilment faster, smoother, smarter and more efficient.

#### What we do

We provide flexible and scalable solutions with a range of perfectly integrated key technologies. And upgrade the worlds warehouses with easier automation.

Movu is part of the stow Group.



#### **AS/RS Market:** Stacker Crane Solutions

#### Advantages

- Handling of oversized goods and nonstandard loading devices
- Handling of high wight goods

- Not scalable in performance and hard to scale in capacity
- Low redundancy and high maintenance effort



#### **AS/RS Market:** Shuttle Solutions

#### Advantages

- Highest performance technology on the market
- Wide variant of applications possible (order buffering, sequencing, ect.)

- Complex technology mix (Shuttles, lifts, conveyers) leads to high initial costs - specially for small solutions and
- Low redundancy and high maintenance effort



#### AS/RS Market: Cubic Solutions

#### Advantages

- Most dense technology at the market
- Easy scalable in performance and capacity and redundant

- Limitation in applications like sequencing and order buffering ect.
- Limitation in ABC curve and SKU structure changes



#### AS/RS Market: AMR Carrier Solutions

#### Advantages

- Cheapest technology on the market
- Very fast to implement

- Low density and limits in space utilization
- Limitation in achievable performance connected to available space



### AS/RS Market: AMR rack picking solutions

#### Advantages

- Cost effective technology on the market
- Good performance achievable

- Limits in space utilization
- Limitation in achievable performance connected to available space



#### AS/RS Market: 3D shuttle solutions

#### **Advantages**

- High performance with high redundancy
- High flexibility to add applications and adapt internal processes (order buffering, sequencing, ect.)

- Normal space utilization when performance is very high
- Higher infrastructure because of rack infrastructure



AS/RS Market: What's needed to decide for a technology?

#### **Questions to keep in mind:**

- How experienced am I with automation?
- What data is available?
- How is my business developing?

### Information to target technologies:

- Material master data
- Order profile
- Future expectations

#### **KPI's for decision making:**

- ROI Return of Investment
- TCO Total cost of ownership
- Technology must be able to adapt to changes!

Movu escala: Fast and simple robotic goods-to-person system.

Movu escala is a next generation 3D robot that can move in 3 dimensions to retrieve the right bin before delivering it to the fulfilment station for picking in sequence.

escala

Movi escala

Movu escala: Fast and simple robotic goods-to-person system.



All kind Standard bins





Up to 650x450 Euro bins handled



Up to 12.5m Height Movu eligo: A self-learning robot for piece picking.

Movu eligo is an AI driven robot for fully automated bin picking, from a single-SKU source bin into multiple mixed-SKU destination bins. Integrates seamlessly with Movu escala.

#### Movu eligo: A self-learning robot for piece picking.



600 items/hr Pick rate





Up to 30cm Pick items dimension

> >99% Pick accuracy

AI Intelligent handling

## Movu escala

# Movu. No warehouse left behind.