

# SCAPE

IMAGINE. CREATE. AUTOMATE.

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# Bin-Picking for challenging production environments

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Handling randomly placed objects from a bin by means of a robot is our core competence that makes us the world market leader in Bin-Picking.

Scape Technologies is the most experienced supplier of Bin-Picking solutions used in production environments.

We have over the years developed and constantly improved a complete solution that in its core is scalable, flexible and reliable. With this we have solved a wide range of demanding bin-picking tasks in Europe as well as China.

Since our very first customer installations we realized that reliable bin-picking means thinking far beyond scanning a bin. We are helping our customers reach a complete and full solution that will perform 24/7.

Reaching the expectations of our clients has helped us to sell more systems than any other company within this domain, and we have achieved invaluable knowledge and experience in this field.

We keep moving on. The future requires reliable systems that are easy to use combined with the most advanced technology. After a successful listing at Nasdaq First North Denmark in 2018 we are now fully committed to fulfill these requirements by further developing our world-leading solutions in close co-operation with our partners and customers.

We are looking forward to work with you.



Søren Bøving-Andersen

A handwritten signature in black ink, appearing to read 'Bøving-Andersen', written in a cursive style.

CEO, Scape Technologies A/S

# How to make **THE SAFE CHOICE**

## EXPERIENCE

Inventing something doesn't bring experience like installing it in a production environment. Since 2006 we have been integrating our solutions in car plants, factories, machines and human robot collaboration areas. Many of our customers have critical demands to the availability of our solution. This has required us to deliver complete systems that our customers can rely on. Every single installation has given valuable knowledge that is implemented in Scape Technologies standard solution.

## SPEED

Customers are looking for a return on investment based on how fast parts can be delivered. We have developed a standardized solution that can deliver up to 15 parts per minute. In order to achieve even more parts per minute or to place them in specific positions, we can combine any number of robots. As a result our customers have unlimited ways to solve even the most demanding needs.

## STABILITY

Bin-Picking requires software expecting the unexpected. We have several backup procedures that allows the system to achieve picking of parts. Even if the robot encounters a challenge in the bin, we will use smart software to solve the problem and allow for continued stable picking.

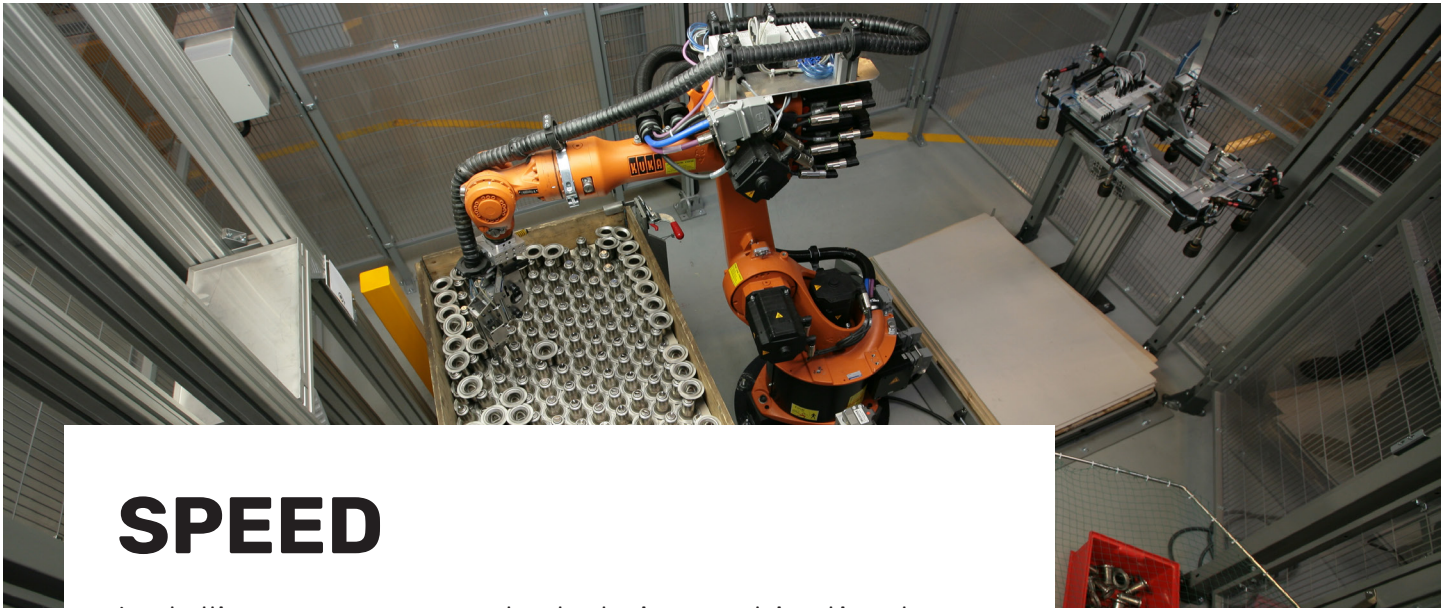
## MODULARITY

Setting up a bin picking robot requires auxiliary components in order to complete the robotic cell. With Scape Technologies you can combine several robots and our standard grippers into a powerful solution, which is applicable for all types of objects and used across robot brands with 6 axis arm such as ABB, KUKA, Universal Robots and Kawasaki.

We also deliver modules that lets you complete your cell with standard components such as bin fixtures.

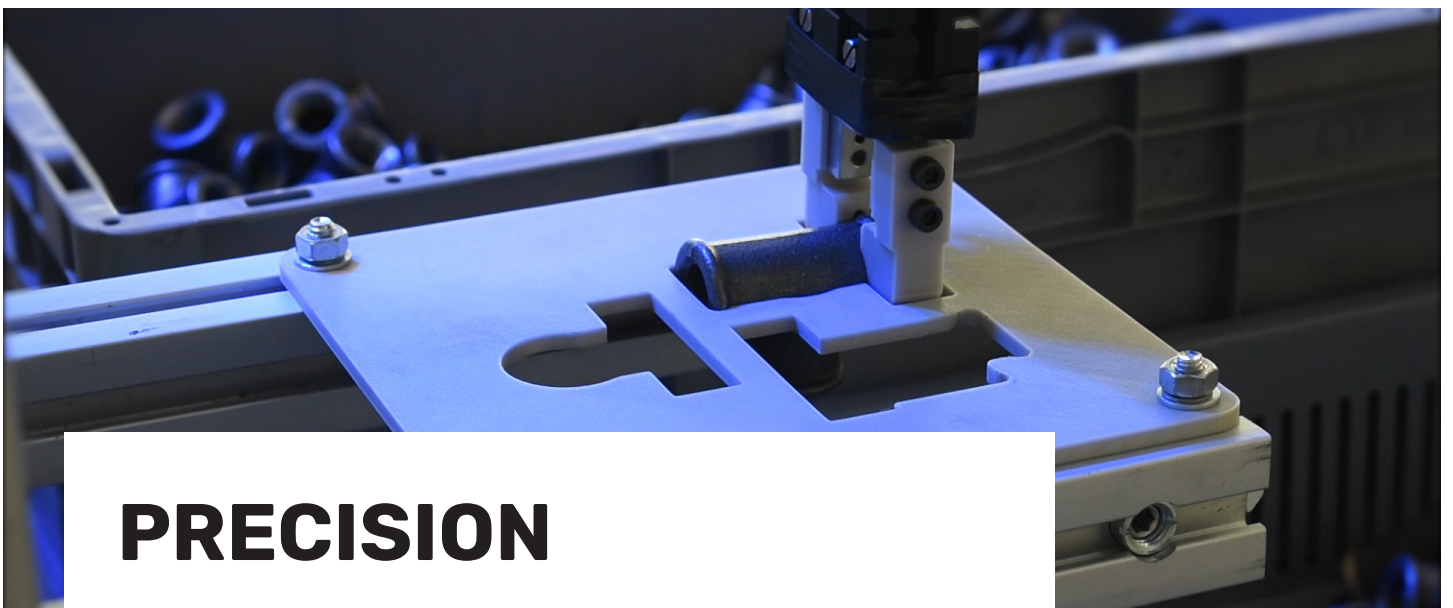


# WE MATCH YOUR



## **SPEED**

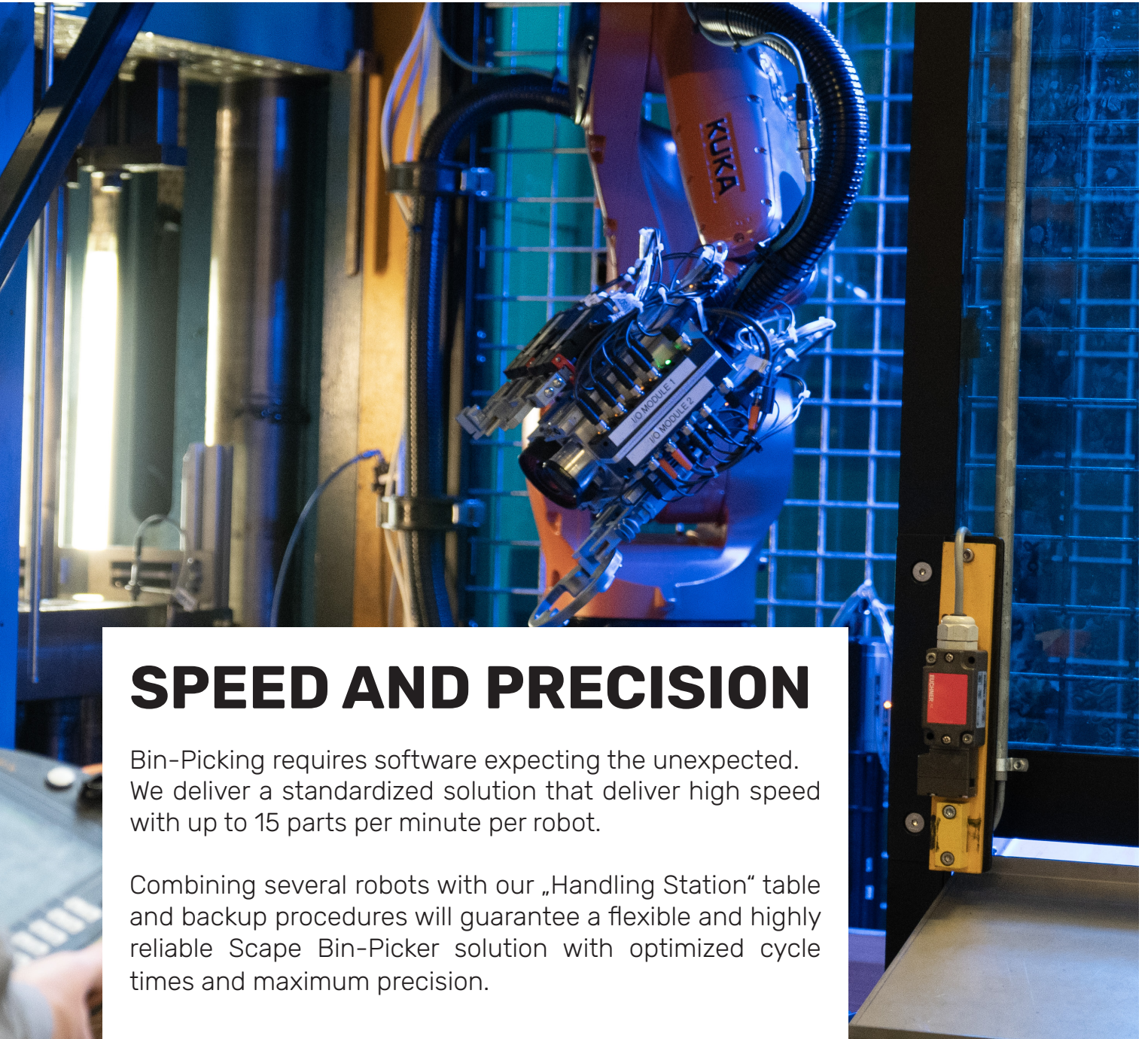
Installing one or several robots in combination to deliver any number of parts.



## **PRECISION**

Checking for features before delivering a 100% guaranteed positioned part

# NEEDS...



## **SPEED AND PRECISION**

Bin-Picking requires software expecting the unexpected. We deliver a standardized solution that deliver high speed with up to 15 parts per minute per robot.

Combining several robots with our „Handling Station“ table and backup procedures will guarantee a flexible and highly reliable Scape Bin-Picker solution with optimized cycle times and maximum precision.

A

**3D SCANNERS  
THAT FIT  
TO THE  
WIDEST  
RANGE  
OF  
DEMANDS**





# SCAPE Grid Scanner

## Advantages:

- Easy installation
- Recognizes very glossy surfaces
- Can scan from many angles



# SCAPE Pro 3D Industrial Scanner

## Advantages:

- Fast scanning process
- High detail scanning
- Robot can move without scanning

# Several Grippers and checks are cornerstones of a good Bin-Picking strategy

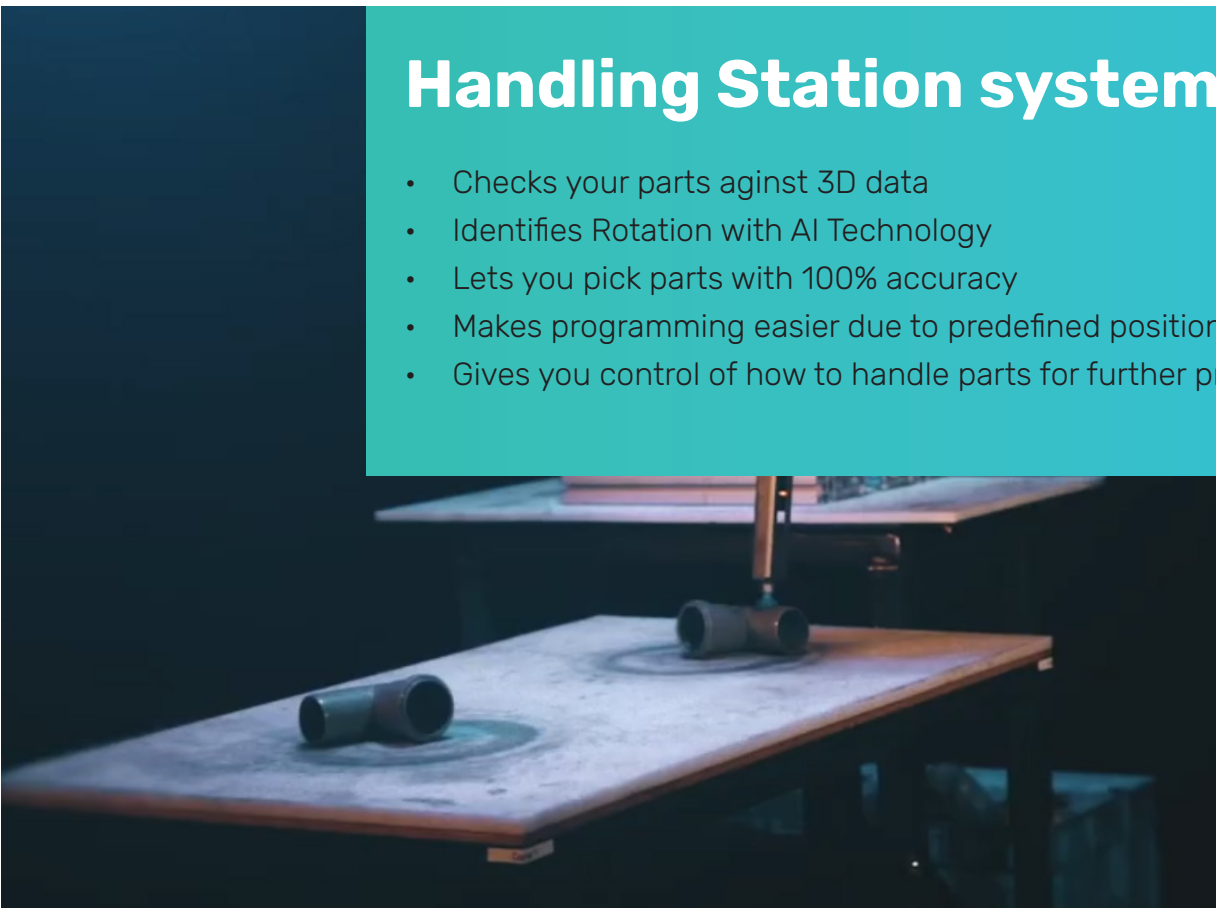
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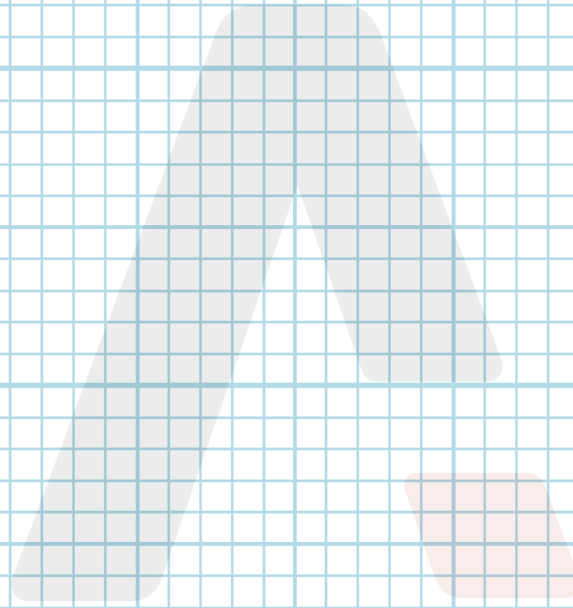
## Standard Gripping system

- Allows several grippers to be used intelligently by the software
- Can achieve higher picking speed
- Gives extra process safety against unexpected parts
- Is controlled automatically from software
- Optimizes its own picking logic based on experience



## Handling Station system

- Checks your parts against 3D data
- Identifies Rotation with AI Technology
- Lets you pick parts with 100% accuracy
- Makes programming easier due to predefined positions
- Gives you control of how to handle parts for further processes



Next Apointment: \_\_\_\_\_

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# YOU'RE ALMOST THERE...

## Scanners

- Grid Scanner
- Pro Industrial Scanner

## Tool Units

- Compact
- Standard
- Large

## Grippers

- Suction cups
- Magnets (Permanent)
- Magnet Electric
- Fingers Standard
- Fingers Heavy

## Other modules

- Tool unit controller
- Energy chain
- Bin fixture
- Structure for scanner
- HS table
- Calibration board

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## COMPLETE RELIABLE SOLUTIONS

### EXPERIENCE

Scape Technologies is the most experienced supplier of random Bin-Picking solutions used in complex production environments.

### COMPLETE AND STANDARDIZED

We take care of the critical part of Bin-Picking and deliver a complete and standardized SCAPE Bin-Picker solution that is scalable and flexible in performing complex Bin-Picking tasks 24/7 and is applicable for all types of objects and used across robot brands with 6 axis arm such as ABB, KUKA, Universal Robots and Kawasaki.

### HIGH RELIABILITY

With more than 150 Scape Bin-Picking systems working in challenging production environments, we provide a proven total solution for random Bin-Picking which can provide substantial productivity improvements to numerous manufacturing processes with **99,99% reliability**.

In fact – Scape Technologies offer a complete solution with the industry's lowest risk of failure and highest degree of meeting Return on investment.

### WE OFFER HIGH RELIABILITY - FEW OPERATOR ACTION

Example: 8,500 Bin-Picked parts per day - 24/7 production

- **99,99% reliability:** Need 1 operator action/24 hours with SCAPE Standard solution
- **98% reliability:** Need 170 operator actions/24 hours - every 8,5 minutes!

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