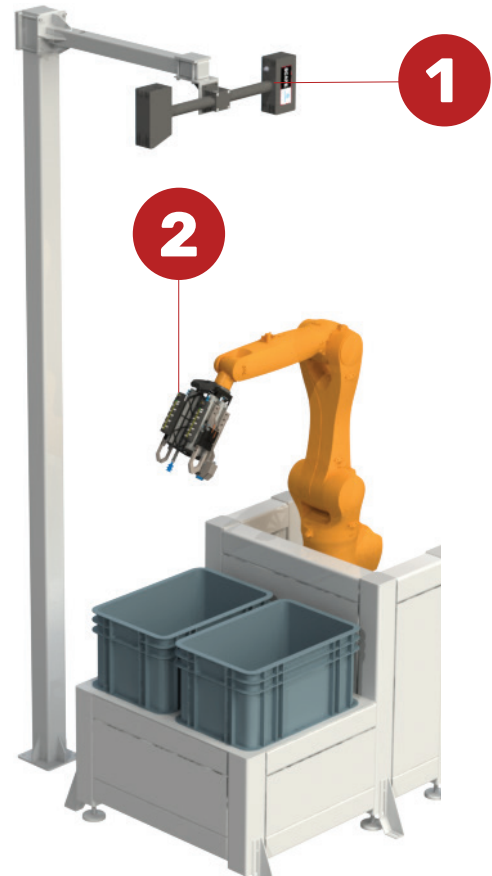


## CASE 1

### **SCAPE Stationary Scanner - Easy Installation and high flexibility lowers cycle times by up to 30%**

- 1 SCAPE Stationary Scanner**
- 2 SCAPE Tool Unit with grippers**



**Approximate price:**  
**€ 68.800**

THE SCAPE STATIONARY SCANNER CONDUCTS QUICK AND EXTREMELY PRECISE SCANNING OF PARTS IN TWO BINS. THE ROBOT AND SCANNER WORK TOGETHER IN PERFECTION - WHILE THE ROBOT MOVES THE PART, THE SCANNER PREPARES THE NEXT PICK.

THIS CUTS CYCLE TIMES BY UP TO 30% COMPARED TO USING THE SCAPE GRID SCANNER.

BASIC DATA:

AVERAGE CYCLE TIME 3,5 SECONDS

VISION SENSOR:

A SCAPE STATIONARY SCANNER MOUNTED ABOVE BINS

## SCAPE BIN-PICKER

### General Information

THE SCAPE BIN-PICKING SYSTEM CONSISTS OF SEVERAL MODULES WHICH CAN BE COMBINED IN VARIOUS WAYS, OPTIMIZING IT FOR THE CUSTOMER NEEDS. COMMON FOR ALL MODULES IS THE SAME GENERIC SOFTWARE, I.E. THE SAME SOFTWARE EVERY TIME WITH NO EXTRA TAILOR-MADE PROGRAMMING NEEDED.

SEE THE INTRODUCTION TO THE MOST IMPORTANT MODULES BELOW.  
(FOR MORE DETAILS ON THE MODULES SEE THE RESPECTIVE PRODUCT SHEET)

#### SCAPE Software Suite

The main software system included in all SCAPE modules.

#### SCAPE Part Training Studio

Without programming the Part Training software enables you to perform full training of new parts for Bin-Picking and Orientation Control. The SCAPE Part Training Studio is optional and works with all SCAPE modules.

#### SCAPE Vision Sensors

##### SCAPE Grid Scanner (Standard & Compact):

A sensor mounted directly on the robot is a simple and cost-effective solution, making it possible to place as many bins as needed in any position, provided the robot can reach them to acquire images.

The SCAPE Grid Scanner Standard can be mounted in SCAPE Tool Unit - Standard/Large and the SCAPE Grid Scanner Compact fits only the SCAPE Tool Unit - Compact.

##### SCAPE Stationary Scanner:

With the SCAPE Stationary Scanner, the scanning is conducted quickly leading to very fast cycle times. The scanner is mounted and fixed above the bins and can handle 2 bins simultaneously.

Achieves higher flexibility and lowers cycle times by up to 30%, because the robot can move while scanning, i.e. the robot is not involved in acquiring image data.

##### SCAPE Sliding Scanner:

The SCAPE Sliding Scanner is mounted above the bins on a linear unit moving back and forth.

This lowers cycle times by up to 30% as the robot is not involved in acquiring image data. The scanner can handle very large parts and can be shared by 2 or more robots.

#### SCAPE Orientation Control

If precision delivery is needed<sup>1)</sup> SCAPE Orientation Control is the right solution. It is utilized to recognize the part position and re-grip it with high precision.

To guarantee a precision delivery the part is placed on the SCAPE Handling Station. Depending on the situation the part can then be processed by either a 3D Grid Scanner or a stationary camera (for faster cycle times).

#### SCAPE Tool Units

It is often necessary to use more than one gripper in a bin-picking setup. The SCAPE system includes a Tool Unit upon which multiple grippers are mountable, thus enabling the optimal specific configuration.

<sup>1)</sup> Semi-structured parts in a bin are an exception. In this case it is often possible to design a gripper to perform precision grips directly in the bin. In this case SCAPE Orientation Control is not needed.