

# SOFTWARE



## SMART PICK 3D SOLID

A user-friendly interface allows you to integrate robot with vision system and autonomously configure the mapping of objects using the CAD file

- Gripper and gripping points management
- Robot management with collision-free trajectories
- Software filters to manage reflective surfaces

### TWO VERSIONS OF THE SOFTWARE



#### SMART PICK 3D SOLID

Complete version with all the features. Designed for randomly placed objects.



#### SMART PICK 3D SOLID LAYER

No smart robot trajectory calculation. This cheaper solution is designed to pick objects from layers.



## TWIN PICK

Twin Pick is a cloud-based bin-picking simulator and allows users to re-create the entire project starting from CAD file, bin size and robot used. This allows for quick and reliable feasibility studies.



#### with TWIN PICK

- Gripper management and design
- Simulation of objects randomly falling into the bin
- Simulation of robot kinematics
- Complete collision check between products, robot, gripper and bin
- Video export tool



#### without TWIN PICK

- Most critical in need of a do-over
- Problems related to gripper design and bin positioning
- Long set-up times
- Higher management costs

#### CLOUD PLATFORM

Thanks to cloud-based technology, you can perform extensive testing using our servers all while keeping your systems free. For example: you can simulate several bin-picking scenarios, all while turning off your PC and resume work when you can log back again.



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# EYE T+ PICK

## HIGH PERFORMANCE BIN-PICKING

3D system for random bin-picking

# EYE T+ PICK

## WHY CHOOSING A BIN-PICKING SYSTEM?

1.

The operator is no longer subject to strenuous work but focused on improving line performance

2.

You are no longer forced to change mechanical components when changing the product

3.

Compact and flexible solution. You can install the system without changing the production line

## TWO MODEL SERIES TO COVER EVERY BIN-PICKING CASE



## WHY CHOOSING OUR BIN-PICKING SYSTEM?



### MANAGE THE SYSTEM AUTONOMOUSLY

We provide you all the tools you need to operate **independently**:

- You will be able to configure new products with no extra costs
- Online knowledge base and tutorials
- Training courses to manage your systems



### LOWER COSTS AND INSTALLATION TIMES

**Speed up the feasibility** studies and eliminate inconveniences during installation:

- Reduce installation times thanks to our Digital Twin for bin-picking
- Demo Units available for quick and effective testing
- Remote or on-site support available



### INCREASE PRODUCTIVITY

Improve your ROI:

- Optimize the process by using our bin-picking Digital Twin
- Fast cycle times thanks to our predictive algorithms
- Increase your plant's general efficiency

## TECH SHEET



**EyeT+ Pick LT** is a 3D vision system based on dual laser triangulation.

The LT-20 device integrates a sensor capable of reaching 350 acquisitions per second in full format.

**EyeT+ Pick ZV** is a 3D vision system to be installed on-board robot without limiting its reachability inside the containers, even for the smallest co-bots.

Other than being extremely light and compact, this system performs very fast acquisitions with very limited impact on cycle times.

# EYET+ PICK

## FAQ

### Is multi-bin-picking supported?

Yes, our EyeT+ Pick ZV is specifically studied for this type of cases

### Which robot brands do you support?

Kuka, ABB, Fanuc, Yaskawa, Kawasaki, UR, Doosan, Comau, Staubli. List is growing everyday, we can also add robots after specific requests

### What about areas covered?

Starting from the smaller containers up to 1200mm x 800mm x 1000mm and even larger in case of special custom projects

### Is robot code available?

Yes, for main robot brands and PLCs as well

### How do I communicate with the robot?

TCP/IP, Industrial field buses (Devicenet, Profibus, CANOpen, EthernetIP, EtherCAT, Profinet), Siemens S7, ROS

### What about maintenance?

No need for scheduled maintenance and the system will be delivered already calibrated

### How do I perform feasibility testing?

You can use our digital twin for bin-picking: Twin Pick. You can simulate projects and export videos to show to the client. Contact us for a free demo

### Is it possible to perform extremely precise machine tending?

Yes, by using our additional vision module Visual Align

### BIN SIZE 600x400 mm height 300

Device	LT-20-400	ZV-2
Working distance (over bin - mm)	900	600
Spatial resolution (mm)	0.20-0.26	0.32-0.5
Installation	Fixed	On-board Robot

### BIN SIZE 800x600 mm height 600

Device	LT-20-700	ZV-2
Working distance (over bin - mm)	1000	900
Spatial resolution (mm)	0.35-0.56	0.51-0.84
Installation	Fixed	On-board Robot

### BIN SIZE 1200x800 mm height 1000

Device	LT-20-900
Working distance (over bin - mm)	1300
Spatial resolution (mm)	0.43-0.80
Installation	Fixed

NOTE: Standard LT models, customization available. ZV is recommended with multi-bin scenarios by being on-board. Rugged versions also available upon request.

# EYET+ PICK