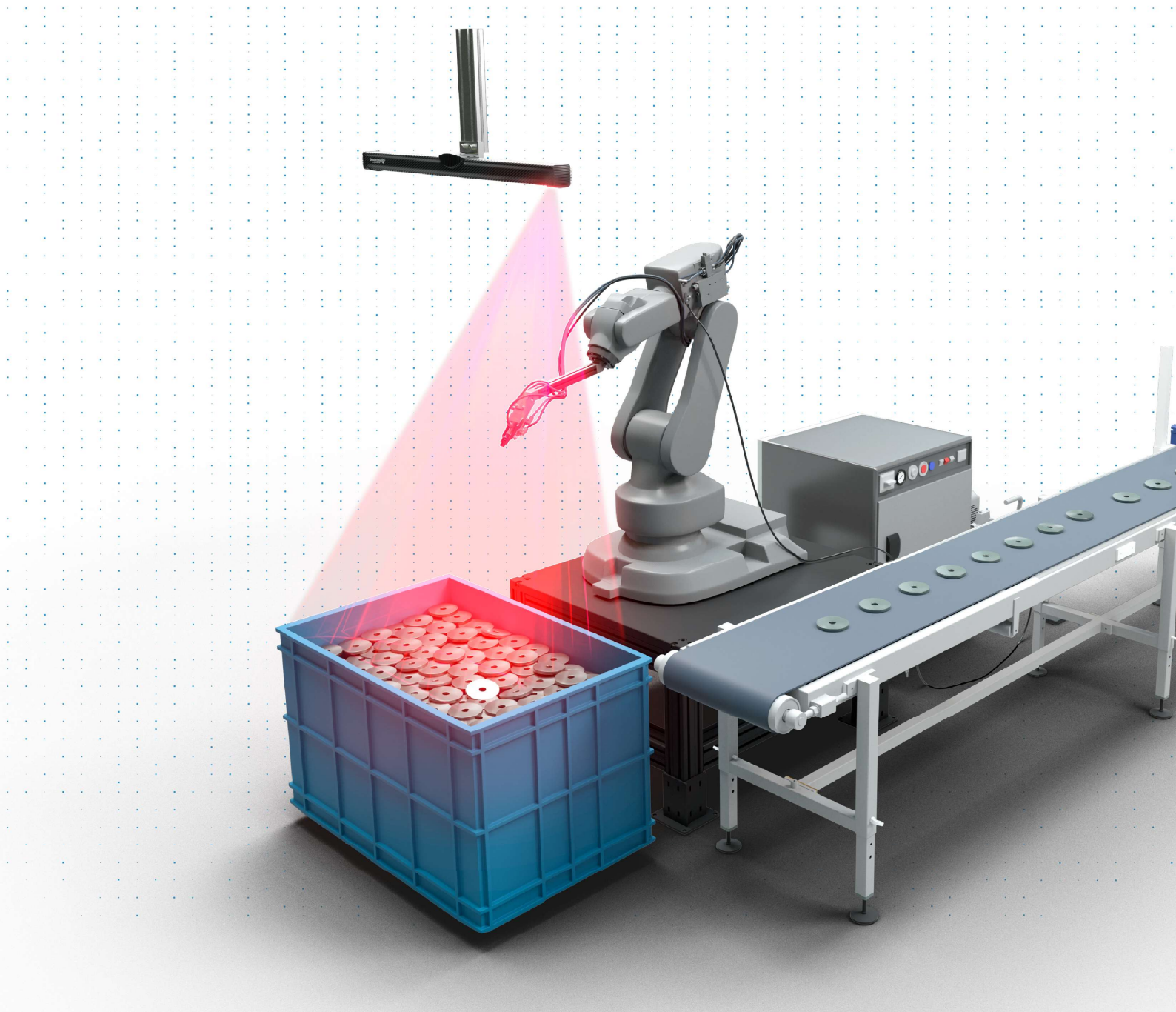
Photoneo | Focused on 3D

Material handling

Robotic intelligence software

Bin Picking Studio

All in one picking solution for everybody



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Intelligence for your robot

The Bin Picking Studio is an in-house developed state of the art software created for one single purpose - enable bin-picking to everybody in the world. It is easy and understandable for whoever thinks about moving their production to the future with automation.

Why is Photoneo Bin Picking Studio different?

Effective and efficient

Reach cycle times ranging from 3 seconds and get your investment back exactly as planned.

Complete stack of technology under one roof

With Photoneo, you no longer need to search for providers of robotic intelligence, 3D vision, localization or path planning because everything is included in one solution from one vendor

Wide range of possibilities thanks to the 3D vision

You no longer have to compromise when it comes to the ranges. With the Photoneo PhoXi 3D Scanner family you can choose between 5 models ranging from 161 - 4000 mm.

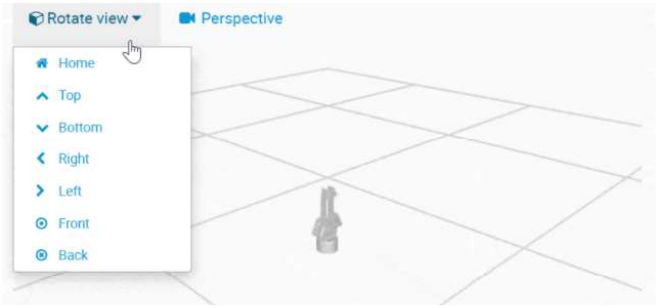
World class support

The customer journey is very important. For us it starts from the first moments when you get in touch with us. We provide free of charge feasibility and consultancy to kick off the projects as smoothly as possible. Then we stand by you throughout the entire integration.

How does it work?

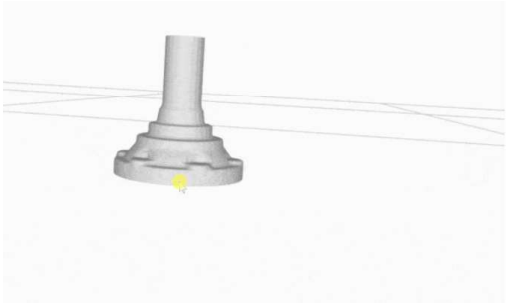
1 Select a robot from the database

We are supporting more than 150 robot models from various brands. And if you have a robot that is not in our list - get in touch and we will gladly provide assistance.



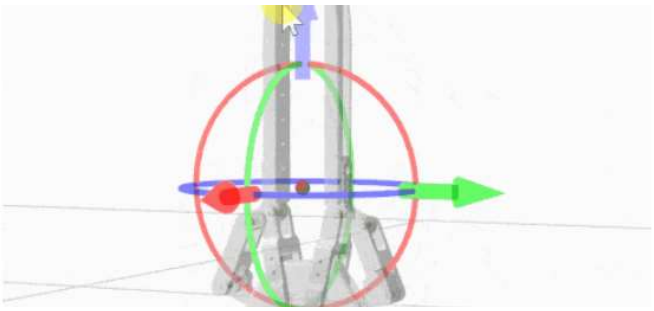
2 Upload the model of gripper

Drag & drop the CAD model of your gripper into the studio. It is used for tool point configuration in the virtual environment.



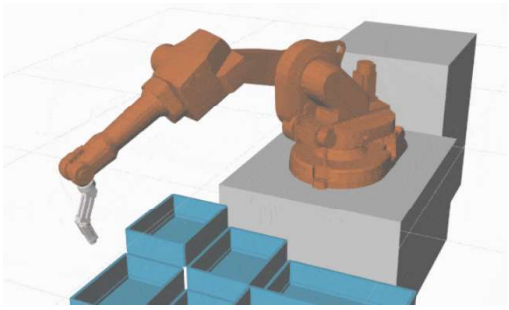
3 Select & upload parts for picking

All you need to start planning your bin-picking gripping points is a CAD model of the product you want to pick. Upload it into the Bin Picking Studio and immediately start working with it in a virtual environment.



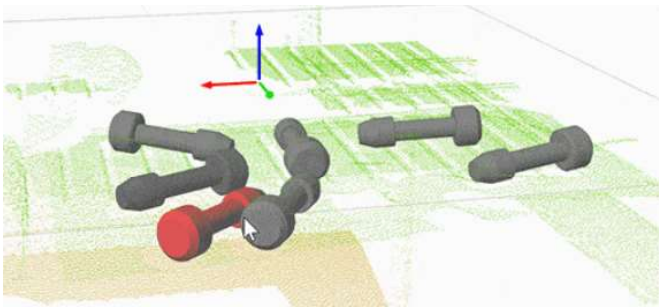
4 Setup the gripping points

The setup of bin picking begins with the selection of points where and how will the gripper grasp the object. Bin Picking Studio offers you full support also in this task. Thanks to the simple visual process you no longer need to involve heavy math.



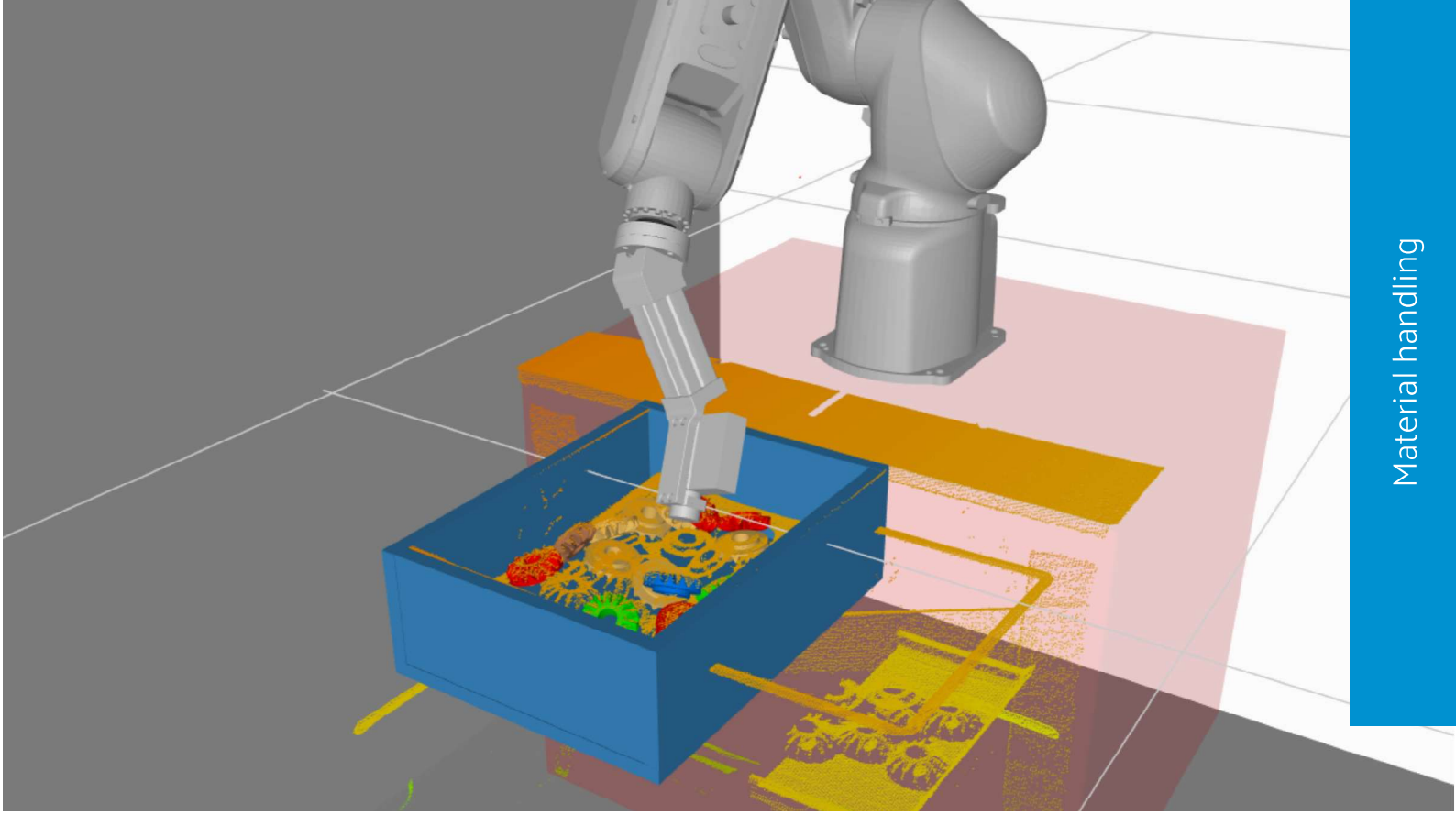
5 Load your environment

In this step, we will let the Bin Picking Studio know where will the picking take place. It is done again in the easiest fashion possible - by loading a CAD model of your picking cell. Immediately after the upload, the Studio offers you a 3D visualization available for work.



6 Setup your localization

Bin Picking Studio implements a built-in engine for setting up an object localization algorithm. The algorithm based on the CAD matching approach was developed by Photoneo to suit the use for bin-picking with a focus on speed and robustness.



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Bin Picking Studio highlights

Feature	Description
Path planning	Secures a collision-free movement in complex environments thus protecting your robot
Number of vision systems	Attach up to four 3D scanners, allowing you to pick four differnet parts from four bins with one robot
Robot database	Bin Picking Studio offers a database of more than 150 robotic models for your projects and convenience
Supports flexible production	Unlimited storage capacity for any number of bin picking solutions stored in one system
Support and feasibility	Enjoy a free feasibility study of every part plus 16 free of charge support hours during integration
3D vision	Select from 5 sizes of best-in-class 3D vision PhoXi 3D Scanner with scanning range from 161 - 4000 mm

Supported robotic brands

ABB KUKA YASKAWA FANUC STÄUBLI

Kawasaki UNIVERSAL ROBOTS MITSUBISHI ELECTRIC NACHI

DOOSAN

For more information please contact sales@photoneo.com