





Reliably bin-pick any part of any random shapes and sizes with our very latest world-class 3D vision technology!

Automated bin-picking is a recent innovative concept. Following the exponential growth of robotic in the industry, the need for automated handling of bulk parts has become a necessity.

An automated bin-picking system is a vision application software intended to locate bulk parts or elements, and transmit their position to a robot so that it can grab them.

Thanks to an innovative 3D calculation algorithm, HANDOGA™ will identify and select the one part that is the easiest to grab from a random bulk of items. It will take into consideration the container and gripper shape characteristics, in order to reliably avoid any collision by the robot.

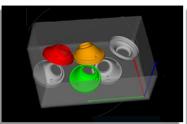
HANDOGA™ will adapt to your production throughput.

At each picking cycle,  $HANDOGA^{TM}$  will communicate to the robot both the position (x, y, z) and orientation (Rx, Ry, Rz) of the best grabbing point from the part that is the easiest to pick.

## This is a 3- step process:

- Collect the image of the bulk content and construct a cloud points 3D representation.
- Identify and pinpoint all parts in the bulk container. This is done by matching the cloud points representation with the pre-loaded 3D CAD drawing of the item.
- Communicate to the robot the oriented position co-ordinates of the best grabbing point from the part that is easiest to pick.













## **CREATOR OF VISION SOLUTIONS**

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