

Bin Picking

3D Robot Handling Configurator

1 sec

PHOTONEO

Structured Light

Even small parts

Dense point cloud

1 second scanning time

5 sec

COMPETITION

Laser Line

Only big parts

Sparse point cloud

5 second scanning time

Bin Picking - The Complete Solution



Bin Picking Configurator - Wizard style

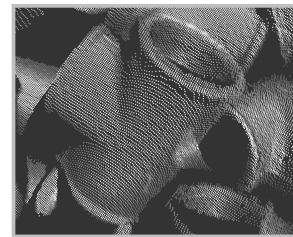
Robot

- ▶ Automatic robot + camera calibration
- ▶ All major robot brands supported
- ▶ Path planner optimizer for short cycle time



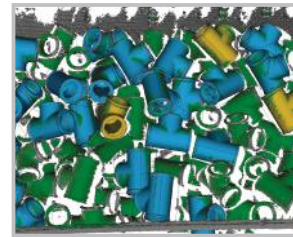
3D Scan

- ▶ Scanning time from 500ms
- ▶ Best in class point cloud quality
- ▶ Small part in big bins scannable



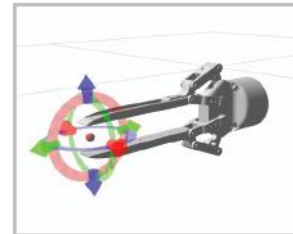
Localization

- ▶ CAD based comparison
- ▶ Smart memory - pick more parts from one scan
- ▶ Fast matching algorithms



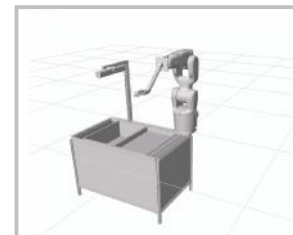
Gripper

- ▶ Multiple gripping points
- ▶ Multiple tool points
- ▶ Simple gripping point setup



Simulation

- Virtual simulation:
- ▶ Collision avoidance
 - ▶ Path planner
 - ▶ Gripping success rate



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