



**Embedded Point Cloud  
Engines**

**TOUCH &  
AUTOMATE**  
Beyond INDUSTRIE 4.0

# 3D Robot Vision for Bin Picking IntelliPICK3D-PRO



**Next Performance Level  
- Ultra Fast -**

**ISRA**  
VISION

# Reliable 3D Bin Picking Made

## Highest Efficiency

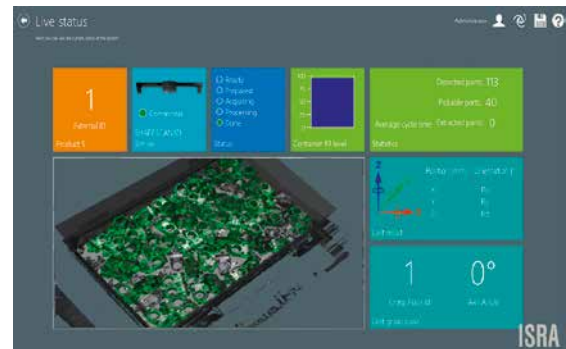
- Return on investment in less than a year for typical applications
- Maximum productivity through a scanning time of a few seconds
- Shortest cycle time and highest system availability
- Double speed with integrated robot path planning

## Maximum Robustness

- Automated sensor and robot calibration
- Robust capturing and collision free grabbing of complex part geometries
- Increased output with standard, heavy and bulky parts
- Intelligent pick and place with integrated collision check
- Robust 3D object detection at every depth



## IntelliPICK3D-PRO



Stereo Scan with Multiline Illumination



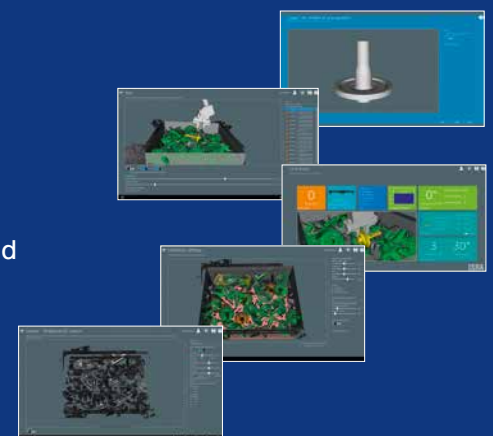
Detection of Parts in the 3D Point Cloud

## Technology and Performance

### Easy-to-use with intuitive GUI

Only a few steps to the finished application. Intuitive parametrization at the factory floor in modern design based on new GUI.

- Guided workflow navigation
- Simple and intuitive setup
- Intelligent image processing tools
- Integrated plausibility checks
- Efficient processing of 3D point cloud
- Standard communication interface for all common robots
- Embedded PC for faster processing
- Wireless LAN embedded
- Industrie 4.0 OPC-UA



# Easy with IntelliPICK3D-PRO

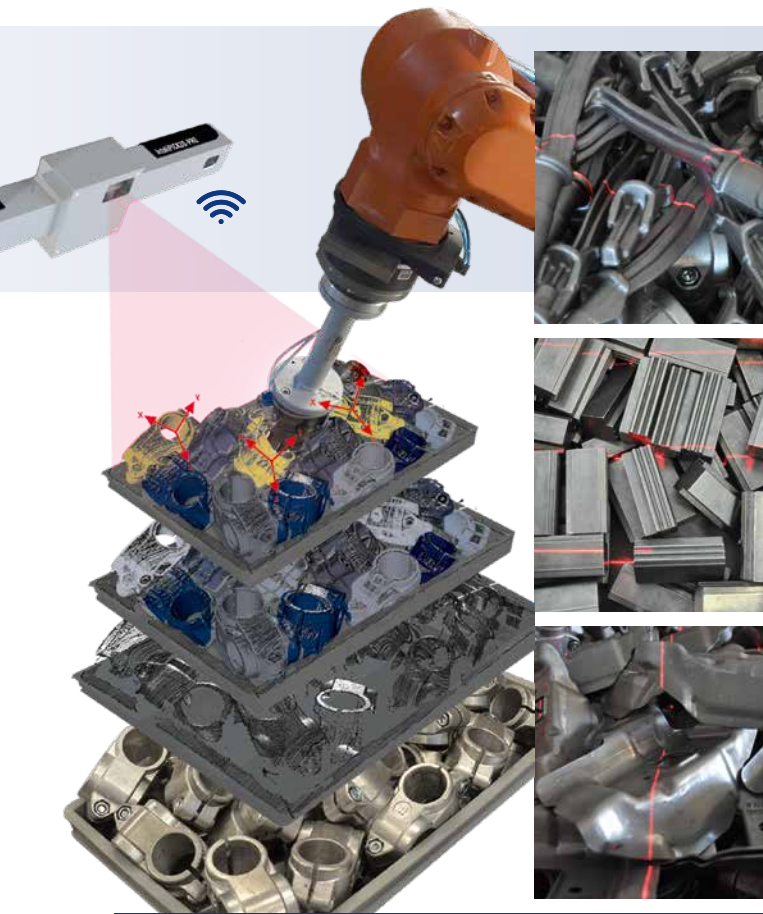
**Next Level**

## Best Flexibility

- Infinite variety of objects using 3D CAD data teaching
- Applicable for one or more containers
- Integration of new parts within minutes
- Flexible mounting system
- Multiple use: Applicable in many different industries
- Automatic container detection for highest availability

## The Future of Automated Production – Now!

- No expert knowledge needed - integrate and start operation: Parameterizing instead of programming
- Easiest setup and installation, due to CAD based recognition
- Save time with pre-calibrated sensors
- Standardized components with low maintenance effort



**• Embedded Sensor  
• Faster  
• Higher Accuracy**

## Advanced Technology

- Higher speed and accuracy, better resolution through embedded cameras
- Largest field of view
- Direct connection to the robot
- Best robustness even on non-cooperative parts by advanced multi laser line projection
- Compatible models to existing product line
- Industry 4.0 highlights: OPC-UA and WLAN on-board
- Reduced system components with embedded PC

**Collision-Free Robot Guidance for Picking**

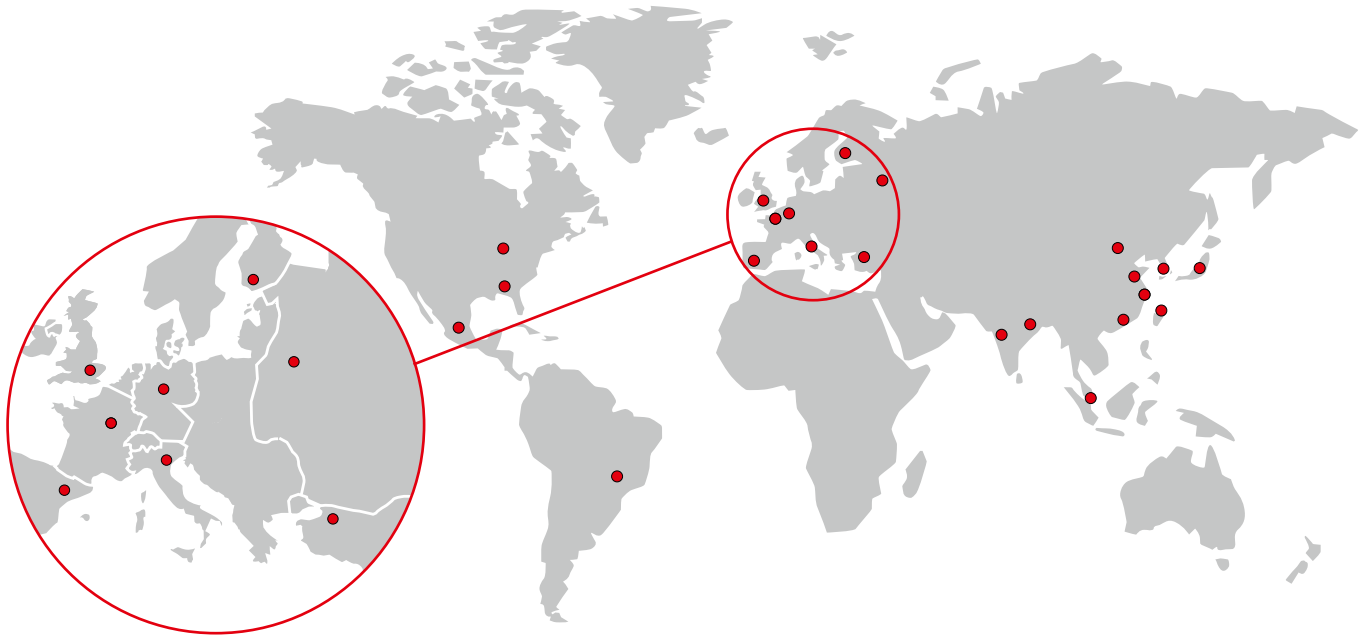
**Great Price, Outstanding Product**

## Features

- Plug & Automate: Ready to use in HOURS with ANY ROBOT
- Fast and Robust 3D scan and detection in seconds
- Collision free robot path and gripper planning
- Robust 3D object detection of small and shiny parts
- Picking of several parts with only one scan
- Accuracy within millimeter range



# Innovation for Robot Automation



## Automation at its best

ISRA VISION has been a leading supplier of high-performance quality inspection, robot guidance and production logistics systems for more than 30 years.

Our systems are used around the world in many different industries and applications. Our mission is to offer a comprehensive portfolio of standard solutions, covering all requirements along the process chain.

ISRA's experience and technological competence in the field of industrial image processing has been proven by thousands of successfully installed systems worldwide.

## Benefits at a glance

Customers opt for ISRA's solutions for the following reasons:

- Our development activities are consistently aligned with our customers' requirements.
- We are continuously expanding our knowledge and expertise in all core areas of industrial image processing.
- Our customer relationships do not end with the delivery of new products. The Customer Support and Service Center provides comprehensive support for the use of your systems and helps you to increase your productivity – be it via our telephone hotline, remote service, on-site service, or our maintenance services.
- More than 900 employees at our sites in Europe, North and South America, and Asia are committed to your success.

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