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**Extended sensor features for system availability and process safety**

## **The next dimension of bin picking: new sensor generation offers fast, flexible and robust separation of components**

IntelliPICK3D is the new and extended sensor generation for flexible bin picking solutions. In the course of the ongoing development of the "Touch & Automate"-portfolio, the new sensor line will be joined by even more system sizes and equipped with new and useful system features. Thanks to its advanced software and new calculation times the new sensor generation provides highest reliability and a maximum of system availability. Serving the future of industrial production, the fully automated gripping will be faster and more precise than ever before.

The new IntelliPICK3D sensor portfolio for fully automated bin picking was particularly designed to address the challenges and demands which can be found right at production lines. With its robustness and resilience against disturbances the new sensor generation guarantees an uninterrupted supply of parts, thus maximizing productivity and production yields.

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### **New features and short calculation times providing maximum system availability**

Every system learns even the most complex shapes of new parts quickly and easily by reading CAD-data, enabling it to detect an almost unlimited range of parts. Due to the intuitive design of its user interface, the sensor can be operated without any experience or expert knowledge. Integrated plausibility checks verify the proper parametrization. High-intensity yet safe to the eye laser lighting allows for detailed object detection and a high depth of focus independent of the distance between the sensor and the container. Completely new features and short calculation times provide important advantages for production time: IntelliPICK3D's new detection software recognizes any foreign objects among the parts to be picked, allowing continued part removal from the current container and saving valuable time.

Extended software makes the system tolerant to varying container positions or even to detect different types of containers for highest efficiency. Due to the "Fast Collision Check" feature multiple parts can be picked right in a row and collision free without any additional scans. The system takes a reference picture of the container to compare if parts got out of their place. It reduces cycle times to a minimum. As a result cycle times of only a few seconds can be realized. And more speed is coming up: in the nearest future the new sensor will be able to detect components in less than one second.

But already today, versatility and speed of IntelliPICK3D reduce the return on investment to less than a year in common applications. Besides the useful system features, standardized system components

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minimize the maintenance effort and make it budget friendly in ownership.

### **Increasing process efficiency along the entire production line**

A completely new application now uses the IntelliPICK3D's CAD-based point cloud recognition for placing parts in a container with a robot gripper, providing a robust loading process by improving the flexibility of the sorting robot: disruptions caused by changes like shifted parts are minimized and the need for manual intervention is eliminated. With this additional application, the entire technological potential of IntelliPICK3D is unleashed to increase process efficiency along the entire production line. In the field, manufacturers now efficiently save time and money by deploying IntelliPICK3D at both ends of their production line as well as in other pick and place processes along the line.

### **Prepared for the future of industrial production**

With a lean design, the sensors of this product line seamlessly fit into any production line. Available in various sizes, they allow for safe gripping of small parts as well as large and bulky units. For the ability to pick very small components, the IntelliPICK3D family will include the MiniPICK3D system for gripping of smallest parts in the order of 3x3x3 millimeters. Equipped with four cameras, it safely recognizes even small metal parts or plastic components like plug connectors. Every IntelliPICK3D sensor is delivered pre-calibrated and automated calibration of robot and sensor as well as guided workflow navigation support fast commissioning. The systems support all standard communication interfaces for common robots and are easily installed in any production

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environment due to their flexible mounting system. As part of the “Touch & Automate” portfolio of connective sensors, the new IntelliPICK3D series will be equipped with WiFi and well prepared for the future of industrial production and INDUSTRIE 4.0.

**Images**



**The IntelliPICK3D family for fully automated bin picking is designed to address the challenges of different production lines.**



**Available in various sizes, the new 3D solutions allow for safe gripping of small parts as well as large and even bulky units.**

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