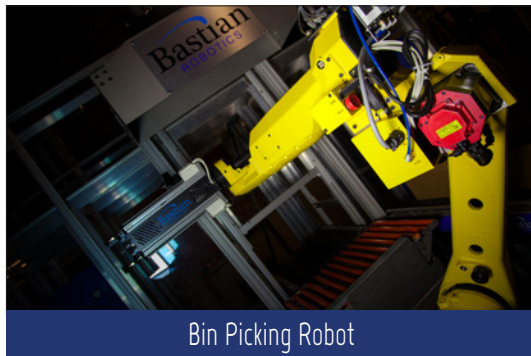


## Goods-to-Robot Picking

### Vision, Intelligence, Flexibility

Bastian Robotics integrates some of the most cutting-edge 2-D and 3-D vision components with its flexible and robust End of Arm Tool (EoAT) designs to create robotic picking solutions perfect for goods-to-robot operations. Our solutions are capable of picking the most complex piles of products. Systems can be designed in a modular fashion allowing new products to be easily introduced into a system and identified by the robot.



Bin Picking Robot



Bin Picking End of Arm Tool

### How does it work?

First, a tote containing randomly oriented objects is presented to the 3-D camera system. At this point a series of photos is taken to map out the object orientations. Within a split second, the robot and vision controls identify the “most pick-able” object in the pile and release the robot to pick it.

Once an object has been identified, controls manipulate the robot arm and EoAT inside the tote while using suction or a gripping technology to pick an object without encroaching on other objects or the tote walls. At this point the robot retracts from the bin and places the object in a secondary shipping carton and is ready for another pick and place sequence.

### Benefits

- Eliminates the need for upstream sorting of randomly oriented, bin-stored products
- Reduces the tedious, time-intensive process of picking items from piles of product
- Modular, quick programming of newly introduced SKUs
- Reduced labor costs
- Improved order accuracy



## Specifications

- Integrated 2-D or 3-D vision systems
- Intuitive end of arm tool design to avoid constrained bin walls and products
- Large range of product sizes from chapstick to large, machined, automotive parts
- Integrates with Automated Storage & Retrieval System (AS/RS) front-ends for picking and placing of ordered items from dispatched totes

## Features & Applications

- Integrates seamlessly with product conveyor, pallet conveyor, and ancillary equipment such as AS/RS
- Sensors for intricate operations
- Configurable product geometry programming
- HMI controls interface
- Singulating items shipped in bulk onto take-away conveyor
- Picking bulk, random items for quality inspection
- Part assembly via picking parts from multiple bins

## Contact

- Interested in implementing this technology in your facility or simply want to know more about it?

Please contact us today for additional information:

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- Phone: (800) 569-6762
- [www.bastianrobotics.com](http://www.bastianrobotics.com)



Large Range of Product Sizes



Vision Integrated End of Arm Tooling



AS/RS Integration



Vision Guided Bin Picking