



Robot Random Bin Picking

MWES integrates robot random bin picking systems that can locate and separate parts from bins as a component of a production line. The bin picking process that MWES uses is based on identifying the correct part, determining the location and picking randomly placed parts from a bin with a robot and equipped with a 3D scanning system.

The MWES robotic bin picking systems are designed to distinguish parts of different shapes regardless of surface finish, shine, rust or color and can locate the top edge of the bin to adjust for bin placement variations along with alerting the operator if the bin is empty or if any foreign debris is detected in the bin.

Robotic random bin picking automation technology allows for containers to be bulk filled with parts that have just cleared through manufacturing cells. This sort of bin picking technology can send bins to downstream operations, set each bin in place and thus keep the automated manufacturing running smoothly.

DYNAMIC VISION PICKING

- Can remove tier sheets, used to separate part layers
- Able to perform accurate final part placements
- Quality control capabilities for parts that are mismatched
- Capable of working with tall bins that must be emptied
- Can discover appropriate pick patterns for bin parts that were placed randomly
- Able to deal with a variety of part weights, shapes, materials and sizes



MIDWEST ENGINEERED SYSTEMS INC.

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WHY PARTNER WITH

Midwest Engineered Systems

Since 1991, MWES has provided automated manufacturing solutions that our customers and partners trust and depend on. We bring our world-class capabilities to any project with solutions that will bring about improved throughput and a return-on-investment.

No matter the industry, our dedicated staff of engineers are adept at understanding specialized and diverse processes from a variety of production environments, to deliver systems that are designed to solve the unique problems each customer is looking to solve.

YOUR AUTOMATION Solutions

- Full Factory Automation
- Assembly Line Automation
- Robotic Welding
- AGV & AMR Integration
- AS/RS Buffer Systems
- Web Handling & Converting
- Case Packing Automation
- Robotic Palletizing & Depalletizing
- Food Handling & Forming
- Vial Filling Automation
- Robotic Press Brake
- Standard Machine Tending
- Robotic Bin Picking
- Robot Laser Cutting
- Custom Machines
- New Product Introduction
- Additive Manufacturing
- Proof of Principle Testing

INTELLIGENT

EXPERIENCED

DEDICATED

WE ARE INNOVATION THROUGH AUTOMATION

RESPONSIVE

EFFICIENT

SUPPORTIVE

TRUST US WITH YOUR DATA

MWES is ITAR Compliant

We pride ourselves on our secure facilities, systems and processes that ensure our customer's and partner's trade secrets is our top priority.

WE HAVE YOUR BACK WITH 24/7

Customer Service & Support

We offer prompt **24/7** service and support for all of our products and provide support for systems developed by other automation integrators.

- Technical support
- Preventative maintenance
- Replacement parts
- On-site system integration
- Operator, programmer & maintenance training
- Field service for most robot brands
- Productivity improvements
- System retrofits & upgrades
- HMIs – standard & custom
- System modernization
- Offline programming
- Entire automation system audits

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