IndustriAl
Robotics Capabilities

Bastian Robotics is an independent robotic system integrator dedicated to helping our customers increase productivity through proven technology, automation and sound operating procedures.

Bastian Robotics provides turn-key solutions from design engineering and simulation all the way through project management, installation, preventative maintenance, and critical downtime support. We take great pride in providing exceptional service and flexibility to our customers.

Our solutions vary in complexity from simple automation equipment and robotic cells to complete material handling systems. With our in-house controls and manufacturing capability along with complete customer support, we are uniquely positioned to help our customers excel in their markets.

Every solution we propose is considered on its own merits to provide tremendous productivity gains and a quick return on investment.

As a systems integrator, we will continue to seek out leading technologies in both material handling equipment and information systems coupled with proven operational strategies. Our goal is to use these tools to help companies, across a broad spectrum of industry segments, to be leaders in their industries.

The Bastian Solutions Difference

As an independent integrator, Bastian Robotics can leverage the optimum technologies to help you arrive at a solution that exceeds your expectations. The following are just a few of the many benefits of working with us:

- **IN-HOUSE SERVICES**: From design and engineering all the way through assembly and programming, we keep the entire process in-house.
- **FACTORY ACCEPTANCE TESTING**: Prior to installation, the customer can see their system set up and tested with their products to help ensure a smooth start-up.
- **PROOF OF CONCEPTS**: When it comes to complex projects, proof of concepts help to verify the functionality and key components of a design prior to commencing a full project.
- **SYSTEM MODELING**: Simulations and renderings are a great way to verify system capabilities, save time, and money, and reduce potential errors.
- **INNOVATION**: Bastian Robotics integrate cutting-edge technologies like Bin Picking and Mobile Robotics to tackle even the most complicated tasks.
- **TURN-KEY SOLUTIONS**: We are capable of supplying all the services and equipment you need to both get your system up and running and maintain it.

We offer a comprehensive material handling system using a proven design process to give our clients a competitive advantage in their industries.

Our engineering methodology begins by collecting input from all key stakeholders. We develop our concepts based on extensive data gathering and analysis. Next, we use our broad industry experience to develop material handling system alternatives and a set of evaluation criteria to determine the best solution.

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THE ANATOMY OF
Robotic Solutions

A robotic material handling system can be as simple or complex as your operations require. Each system is customized to your needs, allowing you to increase productivity, reduce labor costs, and grow your business.

MATERIAL HANDLING ROBOTS
Industrial robots transport product from one location to another with pinpoint accuracy.

PRODUCT INFEED
Products can be brought in as individual cases, totes or pallets.

END OF ARM TOOLING
A robotic end of arm tool is custom engineered to carefully and precisely handle your product.

PRODUCT OUTFEED
Individual cases are palletized by the palletizing robot. Full pallets are brought out of the area with a pallet conveyor.
**Machine Tending, Product Testing & Measuring**

Robotic machine tending provides transport and manipulation capabilities more complex than basic processes. Robots secure product from a supply position, transport it to and interface with the machine before removing the finished part.

**Pick & Place**

Human pick and place applications require repetitive motion over a long duration resulting in possible ergonomic issues. Pick and place robots eliminate these problems and can provide increased efficiency as well as decreased production costs.

**Collaborative Robots**

Collaborative robots are opening up new possibilities as excellent ways to automate tedious operations performed by factory employees.

**Goods-to-Robot**

Goods-to-robot, bin picking systems are the next step into order fulfillment automation that integrate with the back end of an AS/RS to fulfill à la carte orders and consolidate items for shipment. These can help reduce labor costs while simultaneously improving the speed and flexibility of custom order fulfillment.

The ability to pick from delivered bins can also help improve operations in some of the following areas (among others):

- Singulating items shipped in bulk on to take-away conveyor
- Picking bulk, randomly oriented items for quality inspection
- Part assembly via picking parts from multiple bins

**Palletizing/Depalletizing/ Storing/Retreiving**

Robots can be used to palletize a multitude of different objects consisting of all different shapes, sizes, weights and materials.

**Case Handling**

Exceptional flexibility and superior ROI based on better work environment, increased production & improved pallet quality.

**Layer Handling**

When faster rates are required, a full layer of product can be palletized using a standardized end of arm tool to increase throughput and operational efficiency.

**Bag Handling**

Robots accurately palletize bags from an infeed conveyor, leading to increased production, reduced costs and high uptime.

**Mixed Size Handling**

Improves ergonomics & allows for high SKU variation on pallets, reducing employee turnover & increasing order accuracy.

**Industrial Products**

From palletizing automotive batteries and scrap metal bales to plastic bottles, robots can handle your product and improve your operation.

**Storage & Retrieval**

Increases throughput, efficiency. Also reduces ergonomic issues, improves safety of products & eliminates repetitive manual tasks.

**Case Packing**

In robotic case packing, products are automatically transferred into the robotic cell and are queued for packaging or located automatically by an integrated vision system.

Packages are erected and fed into position where the system will initiate the packing process. Using a custom end of arm tool, the product is picked and placed by the robot into the desired package.

Once the packaging is complete it exits the system, the robot repeats the packing process.
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