Material Handling Systems Integration

Bastian Solutions is an independent system integrator dedicated to helping our customers increase productivity through proven storage, automation, information systems, and sound operating procedures.

Bastian Solutions provides turnkey solutions from design engineering and simulation all the way through installation and project management. We take great pride in providing exceptional service and flexibility to our customers.

Our solutions vary in complexity from simple manual racking, shelving and multi-tier solutions to highly automated systems such as mobile robots, Automated Storage and Retrieval Systems (AS/RS), Automated Guided Vehicles (AGVs), RFID, sortation and conveyor systems.

Every solution Bastian Solutions proposes 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 Exacta Warehouse Management System (WMS) provides the supply chain tools and operational visibility needed to run a lean operation and achieve your business goals.

The benefits of a WMS can be enhanced with material handling automation to reduce the labor and cycle time to process items.

Supply Chain Software & Automation

Our Exacta software suite includes a warehouse management system, a warehouse control system and an order management system providing a unique end-to-end supply chain solution.

Intelligently manage your supply chain with process and inventory management.

The Exacta Warehouse Management System (WMS) provides the supply chain tools and operational visibility needed to run a lean operation and achieve your business goals.

The benefits of a WMS can be enhanced with material handling automation to reduce the labor and cycle time to process items.

Industrial Robotics

Our robotic solutions leverage optimum technologies to help you arrive at a solution that exceeds your expectations.

Consulting & Engineering Solutions

Today’s business environment requires constant improvement to maintain a competitive advantage. Our experts have years of experience working in a variety of industries developing solutions that give businesses competitive advantages.

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

Our process includes defining system requirements, developing layout options, performing computer simulation analysis, and selecting best-of-breed technologies. We use ROI and payback calculations to determine the most economically feasible alternative, as our designs are created with the lowest overall cost of operation.

Services

Turn-Key Solutions

We are capable of supplying all the services and equipment you need to both get your system operational and also maintain it.

System Modeling

Simulations and renderings are a great way to verify system capabilities, save time, and money, and reduce potential errors.

Factory Acceptance Testing

Prior to installation, the customer is invited to our facility to see their system set up and tested with their products.

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.
Industrial Controls

We offer complete controls solutions for machine automation and material handling systems.

Our team will get your control system operating quickly and efficiently, providing an upper-hand in a competitive market. Clients come to us with the confidence of knowing they will receive leading quality and execution that go beyond the confines of traditional engineering solutions.

Let the expertise of our engineers give you full control of your system. Our solutions include motion control, assembly, process control, material handling, furnace control, data collection and reporting.

System Equipment

Whether you need a complete system solution or simply a single component integration, we’ll put our expertise to work for you. We combine the best technologies for your project to create a personalized solution that exceeds expectations.

As an independent integrator, we can source virtually any technology. Some technologies are strategic and some we manufacture in-house to fit your specifications. A few examples of our equipment include:

- **Pallet Conveyor**
  Pallet conveyors automate the movements of both empty pallets (fast moving) and full pallets (slow moving).

- **Vertical Spiral Conveyor**
  Spiral conveyors provide the speed and reliability of conventional conveyors while saving floor space.

- **Extendable Conveyor**
  A versatile piece of equipment, this conveyor can expand up to 4 times its retracted size to fit into different areas of a facility.

- **Stretch Wrapper**
  Full pallets ready for storage or shipping are accepted onto the stretch wrapper envelope to be wrapped by attached media.

- **Racks**
  Standard or custom rack designs can be created depending on your system requirements and storage needs.

- **Pick Modules**
  Pick modules are single story or multi-level rack structures to store inventory and pick items for order fulfillment.

- **Augmented Reality Picking**
  Innovative, hands-free, wearable glasses providing a new level of order fulfillment efficiency.

- **Pick to Light, Put to Light, Pick to Display, Voice Picking and RF Handheld**
  Pick to Light, Put to Light, Pick to Display, Voice Picking and RF Handheld are commonly used to achieve greater operational picking efficiencies.

- **Automated Storage & Retrieval Systems (AS/RS)**
  Taking less space and inducing no human error, AS/RS systems are appropriate for moving high volumes of inventory.

- **Automated Guided Vehicles (AGV)**
  AGVs are programmed to consistently and predictably transport materials without need for human assistance or barriers.

- **Sortation**
  An ideal solution for separating products from in-feed conveyor lines to shipping lanes, palletizing operations, and other sortation applications.

- **Conveyor**
  From simple, straight-line conveyor to fully automated systems, conveyors are undeniably a preferred solution for transport and sortation of materials.

- **Goods-to-Person**
  A modern method of order fulfillment, allowing for an increase in efficiency of the picking process by moving the product directly to the operator.

- **Print-and-Apply Labeler**
  Automatic labeling is available for packaging, manufacturing and supply chain operations.

- **Case Erectors**
  High-speed case erectors utilize extreme precision to maintain high efficiency and reduced impact to cases.

- **Picking Technologies**
  Pick to Light, Put to Light, Pick to Display, Voice Picking and RF Handheld are commonly used to achieve greater operational picking efficiencies.

- **Sortation**
  An ideal solution for separating products from in-feed conveyor lines to shipping lanes, palletizing operations, and other sortation applications.

- **Conveyor**
  From simple, straight-line conveyor to fully automated systems, conveyors are undeniably a preferred solution for transport and sortation of materials.

- **Goods-to-Person**
  A modern method of order fulfillment, allowing for an increase in efficiency of the picking process by moving the product directly to the operator.
Order Fulfillment Technology

Having the right technology to perform essential order fulfillment functions is critical to success. Whether you’re looking to improve order accuracy, ramp up productivity for pick operators or increase customer satisfaction—or all of the above—we can provide an order fulfillment solution tailored to fit your warehouse.

Sortation Conveyor

Sorters are the ideal solution for separating products from in-feed conveyor lines to shipping lanes, palletizing operations, packing stations and other sortation applications.

Shoe Sorter
Shoe sortation provides a very soft, positive divert at rates up to 220 cartons per minute for a wide variety of product shapes, sizes & weights.

Pusher
High speed pusher sorters are used to sort items difficult to convey due to their irregular shapes up to 120 items per minute.

Cross Belt
Cross Belt sorters are used to sort parcels, apparel and small items at high speed as well as fragile or high friction items.

Tilt Tray
Tilt Tray sortation will simultaneously sort irregularly shaped products from small, light polybags to larger packages weighing up to 34 kg.

Activated Roller Belt
Activated Roller Belt (ARB) is a modular plastic conveyor belt that enables quick and precise package handling processes.

Narrow Belt
High-friction divert wheels rise up between the belts to accurately divert product at a 30 to 90 degree angle at a rate of 100 cartons per minute.

Case Studies

Our industrial automation expertise helps our customers across industries achieve their automation goals.

iHerb
In order to support order fulfillment in their California location, iHerb chose Bastian Solutions to develop a new system in Hebron, Kentucky. The system features 10 inventory Perfect Pick aisles, 50+ workstations with touch-screen monitors, and a put-to-light system all powered by Exacta Warehouse Control System. As a result, iHerb is able to support their California facility with a scalable system that can process orders in as little as 15 minutes.

Southern Wine & Spirits
Due to changes of legislation in the State of Washington, Southern Wine & Spirits partnered with Bastian Solutions to be the first privatized spirits distributor in the state. This resulted in four pick modules that allow the facility to serve the entire state with next-day delivery.

McCormick Spices
In order to improve palletizing processes, McCormick turned to Bastian Solutions to develop a robotic palletizing system within a small footprint. As a result, a full-layer palletizing system was developed holding a consistent rate of 45 cases-per-minute and a high level of visibility for operators.
Some of Our
Clients

Pharma & Healthcare
Roche
CVS
Becton Dickinson
Berry Plastics
Mölnlycke

E-Commerce
iHerb
NewEgg
Monoprice
Shaklee
B&H Photo

Manufacturing
Graphic Packaging Int’l
Johnson Controls
International Paper
Aeroquip
Amtrak

Parcels
USPS
DHL
FedEx

Apparel & Retail
BHFO
PETZL
Sur La Table
Cabela’s
Game Stop

Food & Beverage
McCormick
Pepsi
Anheuser-Busch
Southern Wine & Spirits
Cargill

Consumer Goods
Amway
Mary Kay
AT&T
Garmin
Epson

Automotive & Aerospace
The Boeing Company
Honda
Rolls-Royce
SMC

WWW.BASTIANSOLUTIONS.COM