SOFTWARE CAPABILITIES

Warehouse Management System (WMS)
Warehouse Control System (WCS)
Warehouse Execution System (WES)
Augmented Reality Picking (AR)
Fleet Director Software (MAESTRO)
Automated Order Routing (SENTINEL)
INNOVATIVE
Software Solutions

From inventory control to hardware agnostic integration. Exacta software provides the data and insights to the most complex automated systems to date. See how our customers feel about being powered by Exacta.

Our Process

We offer comprehensive material handling integration systems leveraging software and automation developed through a proven design process to give our clients a competitive advantage in their industries. Our engineering methodology includes 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.

INNOVATION
Looking to leverage new advances in technology to answer the question "What's Next?"

INTEGRATOR MINDSET
Design and integrate best of breed solutions leveraging our extensive technology partner network.

FLEXIBILITY
Keep what makes you different...
Exacta is flexible enough to allow you to continue your business process.

TURN-KEY SOLUTIONS
We are able to offer consulting, material handling solutions, controls, and software combined for a fully integrated system.

STEP 1: DEFINE
Our software engineers work with project stakeholders to determine your project objectives.

STEP 2: DESIGN
Standard software modules are designed to streamline the process of implementation.

STEP 3: CONSTRUCT
Analyze data from host system and create a workflow for your operations.

STEP 4: VALIDATE
Concepts developed are then tested and validated with the customer.

STEP 5: DEPLOYMENT
Various pieces of automation equipment are implemented along with the system’s supply chain software and host system.

STEP 6: SUPPORT
24/7 support is available to ensure maximum uptime of your system.

The Exacta Difference

As an independent integrator, Bastian Solutions can leverage best of breed logistics technologies to help enterprises arrive at a solution that exceeds their expectations. These complex systems require reliable, intelligent software to coordinate and control each component, ensuring they work together seamlessly.

Contact us for more information: 888.725.3046, www.BastianSolutions.com
Exacta Managed Order Lifecycle

STEP 1: Inbound
Orders are received and scanned into Exacta to log inventory of all items within the warehouse.

STEP 2: Storage
Items are separated and placed into storage for optimal picking. Exacta can perform cycle counts to determine levels of inventory when replenishment is needed.

STEP 3: Goods-to-Person
Dense storage combined with robotic pickers deliver SKUs to an employee for further processing. Exacta communicates with the goods-to-person system for inventory levels and picking tasks.

STEP 4: Light Directed Picking
High velocity SKUs can be placed into pick to light modules. Exacta can determine the fastest pick route possible and batch common orders.

STEP 5: Put Wall Processing
Manual or automated put walls can process batch picking and organizing orders for faster throughput.

STEP 6: Print & Apply
Completed orders are boxed and placed onto a conveyor where the boxes receive a shipping label from Exacta.

STEP 7: Outbound
Destinations for completed orders are diverted by conveyor and placed into their respective carriers to reach the end-user.

Warehouse Management System Modules
- Receiving
- Returns
- Waving
- Picking
- Pack & Ship

Industries Served
- Pharmaceutical
- 3rd Party Logistics
- Consumer Goods
- Automotive
- Food & Beverage
- Manufacturing
- Retail & Apparel

Warehouse Control System Modules
- Planning
- Automation
- Integration
- Order Fulfillment
- Visibility
- Warehousing
- Aerospace
- eCommerce

1. Exacta Managed Order Lifecycle
2. Warehouse Management System Modules
3. Industries Served
4. Warehouse Control System Modules
5. STEP 1: Inbound
6. STEP 2: Storage
7. STEP 3: Goods-to-Person
8. STEP 4: Light Directed Picking
9. STEP 5: Put Wall Processing
10. STEP 6: Print & Apply
11. STEP 7: Outbound

Order Lifecycle Diagram:
- Inbound
- Storage
- Goods-to-Person
- Light Directed Picking
- Put Wall Processing
- Print & Apply
- Outbound
INNOVATIVE

Warehouse Execution System

Exacta Warehouse Execution System

A Warehouse Execution System (WES) is a hybrid software system where a Warehouse Control System (WCS) shares functions from a traditional Warehouse Management System (WMS). The objective of a Warehouse Execution System (WES) is for highly automated facilities to coordinate labor and equipment through dynamic optimization through real-time inputs. This way the operator can apply the knowledge gained from the Warehouse Execution System (WES) reporting features to optimize the operations of the distribution center.

WMS

Having the right tools to manage warehouse operations and distribution environments is essential for any supply chain professional. The Exacta Warehouse Management System (WMS) provides you with a suite of software applications that enable you to customize and view your warehouse system in ways that best benefit your business requirements. Exacta enables you to plan processes within the warehouse to increase operational efficiency.

Improve Warehouse Operations

The benefits of warehouse management systems in operational performance can be enhanced through integration with material handling automation to reduce the labor required and reduce the cycle time to process items.

- Scalable solution that can manage changes in your business
- Flexible to communicate with a variety of ERP/host systems
- Insights provide business intelligence into supply chain operations

WCS

The Exacta Warehouse Control System (WCS) orchestrates material and information flow to order fulfillment technology and material handling equipment. Exacta includes several modules of functionality typically found in a warehouse management system to efficiently direct and manage processing within your warehouse. The modular nature allows additional functionality to be easily added as the needs of your system or facility evolve.

How WCS Works

A warehouse control system (WCS) provides a single central interface to a host system by working with material handling equipment from a variety of vendors, providing flexibility in purchasing decisions.

- WCS software, with visibility to both incoming orders and orders already in process, releases orders in quantities to match the system’s current ability to process them, offering continuous flow.
- A WCS coordinates multiple types of material handling equipment within one system for synchronized, high-throughput processing.
- WCS reacts to feedback from the order fulfillment automation and material handling equipment used and quickly adjusts and balances workflow.

Human Machine Interface

Human Machine Interface (HMI) is a key component of a Warehouse Control System solution. The HMI is a graphical monitoring tool used to provide visibility to detailed automation system status information for operators and maintenance personnel. HMIs provide real-time visibility to monitor the vital statistics of the material handling system.

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INNOVATIVE

Warehouse Execution System

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Augmented reality (AR) picking using wearable technology combines the very best of vision- and voice-guided picking to produce a faster, hands-free solution for industrial environments.

Augmented reality picking uses smart glasses to merge virtual images and information with an operator’s surrounding environment. The operator wears the glasses, follows the commands given, and scans product barcodes all within the glasses’ display. The combination of real-world and virtual information provides speed and accuracy beyond previous warehouse picking technologies.

FEATURES:
- Heads-Up Display
- Simple Gesture & Voice Controls
- View Barcodes & Product Images
- Integration with WMS, WCS, WES

BENEFITS:
- Increased Mobility
- Hands Free Picking
- Faster, More Accurate Picking
- Real Time Alerts

EXACTA MAESTRO

In the logistics and manufacturing arena, the name of the game is to eliminate waste and gain efficiencies within operations.

The goal is to leverage advancements in autonomous vehicle design to drive better productivity and safer work environments.

Bastian Solutions has developed Exacta Maestro. Maestro is a fleet direction application that adds a layer of intelligence to optimize autonomous vehicle agents in a supply chain application. Exacta Maestro orchestrates movements of a variety of agents including swing reach trucks, AGVs, and other autonomous vehicles within an implementation.

Exacta Maestro optimizes the assignment of prioritized ‘Tasks’ to eligible vehicle agents aimed to complete all tasks as effectively as possible, maximizing the use of automation equipment and minimizing labor within your operations.

EXACTA AR PICKING TECHNOLOGY

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The web-based ExactaBev Portal provides route-waving tools that are flexible, rules-driven, and easy to use. ExactaBev organizes picks into waves of work that maximize picker efficiency while keeping picks for a stop together. The rich graphical displays let users visualize the work to be done and the labor required in each area of the warehouse.

- Real-time and historical data reporting
- Intelligent wave routing for maximum efficiency
- Predictive analysis accurately estimates when each route will be completed.
- Robust and user-friendly tools are built into the web interface to help operators research and resolve exceptions.
- Automated integration with conveyor systems drives accuracy, speed, and sorting so that every route is loaded onto the trailer correctly, every time.

Exacta Sentinel is a standalone routing software package for our clients to install, configure, and implement faster and easier than ever before. Standard functionality allows Sentinel to be offered at a lower price point with a shorter lead time. All systems will include a standard interface communication structure and visibility into the system through reporting or a web application.

Optional functionality (configured during installation) includes zone routing, sortation routing, weight check, weight capture, and dimension capture.

Preventative Maintenance & Support

Our customer support team is dedicated to helping you fix specific issues and answering questions regarding your material handling system. From the beginning of a project throughout operation, we will work directly with you to maintain and manage your system so that it performs to its greatest capability.

We offer many different services such as delivery and assembly of parts, maintenance and repairs, customer training, and 24/7 system support. We guarantee to respond quickly to any inquiries that you have. Bastian Solutions also offers maintenance and service contracts, which are available monthly, quarterly, bi-annually, and annually.

Software Training

Bastian Software Solutions offers comprehensive training to get associates/employees rapidly up-to-speed to effectively execute their jobs using the Exacta Suite. Training is customer-specific and features end-user enablement using a surplus of proven teaching methods.

Our technical trainers are involved throughout the entire project: from the initial Functional Specification Document (FSD) phase, to the development/quality assurance, and finally product implementation. This ensures that our technical trainers can provide full support and training at both the business process level and end-user operations level.

Interested in your own solution?

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