



Material Handling Systems

INCREASE PRODUCTIVITY THROUGH
PROVEN AUTOMATION, MATERIAL
HANDLING SYSTEMS AND SOUND
OPERATING PROCEDURES

Cover: PUMAAutoStore

CONGER.COM

Solutions Start Here

Conger Industries integrates leading technologies in material handling and information systems coupled with proven operational strategies.

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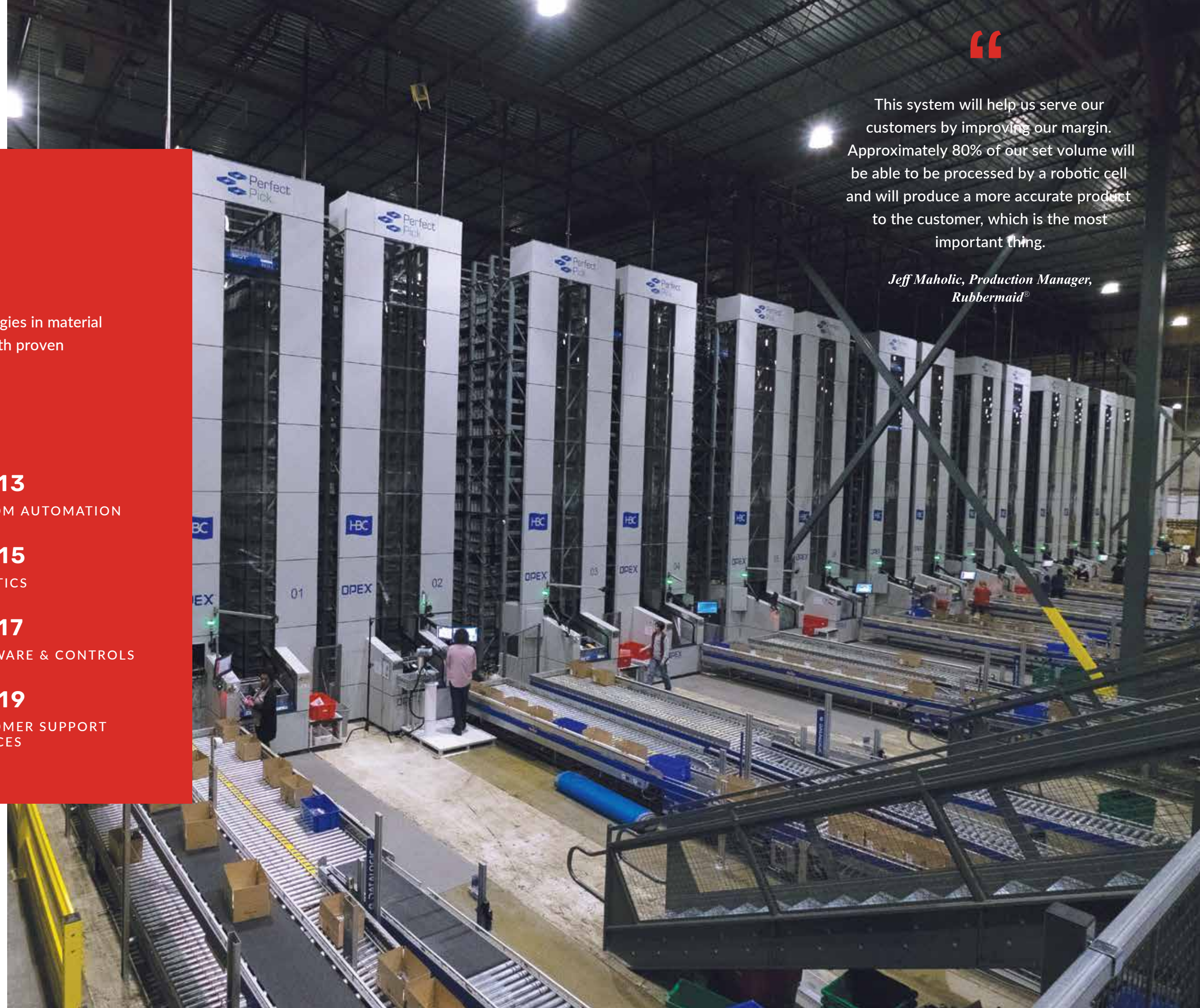
SOFTWARE & CONTROLS

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CUSTOMER SUPPORT
SERVICES

This system will help us serve our customers by improving our margin. Approximately 80% of our set volume will be able to be processed by a robotic cell and will produce a more accurate product to the customer, which is the most important thing.

*Jeff Maholic, Production Manager,
Rubbermaid®*



Material Handling Solutions For Any Industry

Our experts combine the powers of scalable material handling systems, innovative software and custom automation engineering for complete, unique solutions. Our goal is to use these tools to help companies, across a broad spectrum of industry segments, become leaders in their industries.

We know material handling solutions do not come in a one-size-fits-all package. That's why we partner with Bastian Solutions that has decades of experience in custom vertical industry solutions. Our experts partner with you to engineer a material handling system focused on your business objectives.



AEROSPACE



AUTOMOTIVE



CONSUMER
GOODS



ECOMMERCE



FOOD &
BEVERAGE



MANUFACTURING



PHARMACEUTICAL



RETAIL &
APPAREL



THIRD PARTY
LOGISTICS



WAREHOUSING



EXPERTISE

Lead Your Vertical Market

Our service partners integrate leading technologies in material handling and information systems coupled with proven operational strategies.

Whether you need a complete system or single component, we'll put our expertise to work for you. With proven experience in industrial material handling, Conger Industries has the resources to design and integrate world-class automation systems. We combine the best technologies for your project to create a personalized solution that exceeds expectations. See how our material handling services can help you.

Consulting & Design

Our independent consulting group provides engineering support for companies looking to improve their supply chains. Using detailed research, extensive data analysis and creative concept development, strategic recommendations are presented based on your business goals and requirements.

If you are considering enhancing or changing your operations – optimizing your supply chain network, improving your distribution center, streamlining your manufacturing processes or implementing a new material handling system – hiring our consulting team ensures you get the most effective operation with the highest return on investment.



Featured:
Operations Assessment

The goal is to provide recommendations that will lead to immediate benefits while determining if an in-depth study is justified for other, more involved changes.

Solutions



Operations Engineering

We help clients learn how to efficiently run their operations by providing assessments, advising on possible changes to management, training employees on equipment and coordinating with other department heads to fine-tune their processes and systems.

Operations Plan

The goal of an operations plan is to take a holistic approach to determine the best over-all long-term configuration for a new or retrofitted facility, assessing its economic and operational viability to meet your company's vision for the future. Our consultants will develop the end state facility design and implementation plan to achieve that state, developing budgets, business cases and staffing plans as appropriate.



Supply Chain Network Design

Our state-of-the-art optimization software and a proven methodology that delivers the lowest cost for your supply chain network, while meeting all your service level requirements. Our analyses examine facility location, facility size, inventory levels, and inbound and outbound transportation.

Slotting Analysis

A slotting analysis will identify how your products move, where they should be located to optimize picking as well as where to store inventory in your facility to minimize cycle time to your customer.

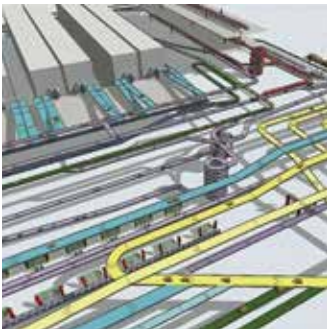


Lean Manufacturing Study

A slotting analysis will identify how your products move, where they should be located to optimize picking as well as where to store inventory in your facility to minimize cycle time to your customer.

Simulation

Computer simulation models can be used to help evaluate potential automation investments as well as changes to current operations. Results of a simulation can help determind throughput rates, staffing levels, design enhancements and system capacities.



WMS Selection

Our consultants assist with finding the appropriate WMS (Warehouse Management System) for your operations using a methodology that defines expectations by researching goals, processes, KPI's, any existing WMS or ERP functionality, restrictions and other points of interest that might help our experts define the best solution.

Labor Measurement

We can help you increase productivity by creating labor performance standards in your facility. With such standards, you can drive productivity improvements in your facility while containing and even reducing costs.



Sustainability

We offer Greenhouse Gas Accounting and Clean Energy Adoption studies to support our client's efforts to build resilient, competitive supply chains by reducing their supply chain's dependency on finite natural resources such as fossil fuels.



Layout & Warehouse Design

Armed with the latest CAD 3-D software, our warehouse design teams not only develop efficient systems but also have a detailed understanding of the technical components that comprise them. This allows our consultants to produce an optimal material handling system layout to support your business goals.

Picking Technologies



Voice Picking

Voice picking is designed to keep an operator's hand and eyes free, allowing them to focus more on the task at hand. Each operator is equipped with a mobile device or voice dedicated terminal and a headset with microphone. Easy-to-understand voice prompts direct operators to locations and instruct them as to what task needs to be performed.

Pick Modules

Pick modules are designed specifically to help you accurately perform picking and product replenishment operations. Our pick module design provides elements from pallet rack, pallet-flow, push back, and carton flow rack to meet your specific application needs.



Put to Light

A put to light system is similar to a pick to light system, only instead of picking product to ship to consumers, it is designed to replenish stock to a store, closing containers, indication of a full container to close, opening a new container and configurable scan verification as you open a container for the location.

Pick to Light

Pick to light systems provide you with an efficient picking process that increases productivity and gives your warehouse the boost it needs. The Exacta pick to light software can be used on a standalone basis as an order fulfillment software solution or be integrated directly into the Exacta warehouse management system, your existing WMS or other existing host systems.



Robotic Bin Picking

Our solutions partners integrate some of the most cutting-edge vision components and artificial intelligence with flexible end of arm tool (EoAT) designs to create robotic bin picking solutions perfect for goods-to-robot operations. These systems can be designed in a modular fashion allowing new products to be easily introduced into a system and identified by the robot.

Emerging Technology

Increase picking efficiency within your operations with Scallog robotic goods-to-person order fulfillment systems or Autonomous Mobile Robots (AMRs). These dynamic picking solutions helps ecommerce, retail, and distribution operations organize and streamline order fulfillment for small products.



Automated Storage & Retrieval Systems (ASRS) Mini-load & Unit-load

ASRS thrive in applications where high volumes of inventory move in-and-out of manufacturing or distribution operations. Storing with ASRS means accurate, real-time data is kept on inventory - eliminating need for physical inventory inspections and also providing direct access to items at all times.

ADAPTO

ADAPTO is a modular shuttle-based automated storage and retrieval system (ASRS) with sorting and sequencing technology built in. This system guarantees fast and accurate order picking with multidirectional shuttles and sequencing capabilities, which is especially helpful for meeting the high demands of ecommerce fulfillment.



AutoStore

The AutoStore Black Line and Red Line systems are innovative storage solutions that allow complete configurability and flexibility. Bins are stacked vertically in a grid and retrieved by robots that travel on the top layer of the system. This makes it possible for the grid to be placed around columns, on mezzanines, and on multiple levels.



Perfect Pick®

Perfect Pick is an energy-efficient solution for goods-to-person picking and stocking. Using proven iBOTS® technology to retrieve and putaway goods, it runs at up to 1000 picks per hour. This technology has a simple, flexible design allowing for complete scalability in both speed and size.

Integration

Looking for technology to help meet the challenges of a growing fulfillment or warehouse operation? Increased product flow and more customer demands are difficult challenges for manual processes to overcome, which is where order fulfillment technologies such as voice, pick to light or goods to person solutions can help. Increased efficiency, reduces picking errors and improved customer service are just a few of the benefits that an automated solution can offer.

Featured: PUMA

Featuring new innovations like the AutoStore Black Line and in-line packing automation, the Indianapolis distribution center provides 10x more capacity and is 20% faster than their California facility. PUMA, together with their 3PL partner NFI/Cal Cartage, can now comfortably meet peak season demands with plenty of room to grow.





Featured: Hudson’s Bay

North America's oldest retailer partnered with our solutions partner to develop an order fulfillment center capable of competing with Internet retail giants such as Amazon. The 750,000-square-foot facility holds the most advanced order fulfillment technology in Canada and has improved operations to give the retail giant a competitive advantage with online shopping.

TECHNOLOGY

Conveyor & Sortation

Our solutions partner has implemented more than 500 conveyor systems, helping our customers fulfill their orders with accuracy and on-time delivery. Whether you are conveying individual products, full cases, or pallets, we can recommend the appropriate equipment, technology, and material flow layout. Our engineering team designs conveyor systems using 3D modeling tools, allowing you to visualize and simulate how your final system will operate.

Products & Systems



Transport Conveyor

Moving items from point to point is common practice using transport conveyor. Depending on the application, there are a variety of models to choose. From belted to roller, inclines or declines, transport conveyor is a simple way to optimize manual operations.

Accumulation Conveyor

This conveyor is commonly used to transport and accumulate cartons or unit loads so that they are efficiently queued up and fed into sorting, wrapping, palletizing, strapping or various other processes. Each zone uses a photo eye to detect the presence of a product. The conveyors provide a buffer zone where a steady supply of product can be oriented or held back when downstream processes are not ready.



Sortation Conveyor

Sortation systems are often employed when high quantities of products need to flow to different destinations for further processing or shipping. Sorters are the ideal solution for separating products from in-feed conveyor lines to shipping lanes, palletizing operations, packing stations and other sortation applications. Sorters are versatile and can sort a wide range of product sizes and weights to multiple divert lanes.

Merge & Combine Conveyor

Merge conveyors and combiner conveyors are used to arrange products flowing from multiple infeed lines of conveyor. Typically, the merging process is needed to combine product from upstream pick modules with multiple lines, into a single stream of product on a single conveyor.



Vertical Spiral Conveyor

Spiral or decline conveyor take up a fraction of the floor space of traditional conveyor, resulting in significant financial savings. Another advantage are the merging capabilities. Pick modules specifically benefit with vertically merging products from multiple levels onto one take away conveyor.

Gravity Conveyor

These are non-powered solutions that use gravity or some external force to move products. Gravity conveyors may be metal or composite chutes, rollers, or skatewheel conveyors. They are one of the most economical material handling solutions and are easy to install and relocate since they do not utilize motorized parts.



Pallet Conveyor

Pallet handling conveyors are not a one-size-fits-all solution. We integrate first-class technology that fits the unique requirements of your project to get operations running smoothly and efficiently by increasing throughput and flexibility while lowering overall costs of operations.

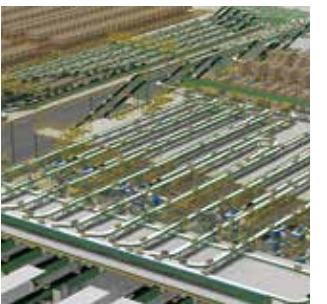
Conveyor Ancillary Equipment

Ancillary equipment added to your conveyor system is often the place where you will see the largest return on your investment. These pieces of equipment are an inexpensive and efficient option that can include in-line scales & scanners, print & apply labelers, case sealers, automatic stretch wrappers and more.



Overhead Conveyor

Overhead conveyors utilize a single rail whether manual or driven, from which the conveying and load handling takes place over work areas. Overhead conveyors can be installed to follow almost any continuous path, changing direction both horizontally and vertically. If able to use multiple drives, a single path can be several thousand feet.



Conveyor System Design

As an independent conveyor system integrator we specify and select the best of breed ancillary conveyor equipment regardless of the manufacturer. If there isn't a piece of standard equipment available to meet your application, we will create a custom design and manufacture it for you.

Tailored Products & Systems



Custom Lifts

We have the ability to convey on a carriage to interface with conveyor systems on multiple elevations in order to utilize the vertical space of your facility. Our custom lifts are built to handle boxes, totes, tires, pallets and other items, and raise them multiple stories with ease and accuracy.

Custom Platforms

We build ergonomically sound and safe platforms that lift people and products that might be too expensive or heavy to be manipulated by hand. Our custom platforms are built to help your operations to continue seamlessly. We have the capabilities to work with any space allotted or specifications given.



Custom Turntables

Conveyor turntables are used for a variety of applications in manufacturing and distribution centers. They are typically implemented to aid in operator ergonomics as well as increase overall efficiency. We specialize in low-profile conveying surfaces and can implement different types of powered or chain.

Custom ASRS

We customize these systems to accommodate product that is too large in length, footprint and weight for normal manufacturers to handle. Our designs can accommodate any specifications including temperature and being seismic zone approved.



Custom Conveyor

Our solutions partner has created custom conveyor for a variety of customer and industry needs. From plastic modular belting and stainless steel, to high pressure wash-down and corrosion resistance, we can build conveyor for your environment. Pallets, steel, automotive tires or even small blister packs – we can create the conveyor solution your operation needs.



Custom Equipment

Whether it's extreme environments, unique applications, excessive weight, specific temperatures or standard material handling solutions just don't meet your technical requirements, we can help. We are capable of solving any material handling or automation problem to help you achieve your desired processes and fulfillment.



Custom Conveyor Transfer

Conveyor chain transfers are typically used in Chain Driven Live Roller (CDLR) conveyor to pick up the product and transverse it perpendicular to the CDLR Conveyor flow. Chain transfers come in many styles and variations such as between rail chain transfers, extended style chain transfers, and conveyor-to-conveyor chain transfers.



Custom Conveyor Accessories

Conveyor accessories provide solutions and extra ergonomic equipment to a standard conveyor line. Our solutions partner's custom conveyor accessories can be tailored to fit the customer's specific requirements. Conveyor accessories range from custom pushers, to blade stops and cross over ladders.



Custom Pallet Handling

Commonly comprised of drag chain and/or CDLR conveyor that can handle wood, corrugate, plastic and metal pallets. From destacking to downstream robot placement, we are able to create any pallet solution you need. This allows us to increase the efficiency of both distribution and manufacturing operations by automating functions that usually require forklift operators.



Custom AGV Tops

Our solutions can efficiently and accurately transport individual or multiple boxes, totes and even pallets, then safely transfer them to the other end of the facility for continued processing. This allows you to avoid adding miles of conveyor and safety costs while increasing throughput, reliability, and accuracy of deliverables.

Custom Automation

We specialize in providing simple, innovative solutions for your complex industrial situations. Our experienced engineers create advanced automation systems for extreme conditions utilizing the latest technologies to produce high speed, precise results.

When your situation demands a one-of-a-kind solution, we bring you the unparalleled experience and resources to design, fabricate and install it.

all specifications - different brand components, style of



Featured: Tire & Wheel Handling

Our custom automation group provides you with highly customized solutions by implementing leading-edge technologies. We work with manufacturers on any and all specifications - different brand components, style of construction and paint color, just to name a few. We adhere to those customer specific requirements for conveyor, lifts, flippers, ASRS systems, AGVs and more. We know how to handle green tires with plastic modular belting made specifically to deal with the harsh conditions that uncured tires require. Our products are guaranteed to endure the high temperatures, corrosive elements and any other challenges of your manufacturing and distribution facility, while maintaining the high quality required by the industry.

Industrial Robotics

Industrial robotic systems are used to automate processes within a manufacturing or distribution facility. These systems are automated, programmable and capable of movement on three or more axis. Often, robots are integrated to perform very specific repetitive actions with a high degree of accuracy, increasing productivity and efficiency while lowering overall production costs.

Safety is our number one priority. Our robotic systems feature advanced cameras, sensors, and automatic shut off to better collaborate with a human labor force.

Featured: Rubbermaid®

Newell Brands is a leading global consumer goods company with a strong portfolio of well-known brands such as Rubbermaid®, Paper Mate®, Sharpie®, Calphalon®, and more. Previously, at the company's 850,000 square foot facility in Mogadore, Ohio, Rubbermaid® product kits were being manually assembled on a box line with 15-20 operators. With a focus on increasing productivity, improving consistency, and shipping a more accurate product to customers, Newell turned to our solutions partner to design and implement a robotic system for kit assembly.



Products & Solutions



Robotic Vision

We integrate some of the most cutting-edge vision components with flexible and robust end-of-arm tool designs to create robotic picking solutions perfect for goods-to-robot operations, pick and place applications, mixed load depalletizing quality inspections and machine tending.

Robotic Palletizing

Robotic palletizing provides our clients with highly robust and flexible solutions. Our internally designed and manufactured end-of-arm tooling is tailored to your application's exact needs to ensure that we handle all of the required products and materials in a gentle and reliable way.



Robotic Packing

Robots can efficiently and accurately pick single or multiple items to pack single or multiple cases per cycle. Robotic packing solutions enable manufacturers to reduce labor and safety costs while increasing throughput, reliability, and accuracy of orders.



End-of-Arm Tool (EoAT)

The key to every successful robotic work cell implementation is the robust and functional design of the EoAT. We place a strong focus on our EoAT designs and are proud to have implemented some of the most innovative and reliable end-of-arm tools in the industry.



Mobile Robotics

Mobile robots are the future of automated order fulfillment. We offer the best foot forward with these great solutions. Whether you are replenishing your inventory, picking case items, or delivering completed orders to loading docks, mobile robotics have you covered.



Pick and Place

High-speed pick and place robots take product from one location to another with pinpoint accuracy. Human pick and place applications can require repetitive motion over a long duration resulting in possible ergonomic issues. Highspeed pick and place robots can provide increased efficiency as well as decreased production costs and ergonomic issues.



Robotic Document Inserter

Our robotic document inserter provides redundancy with 3 or more printers and utilizes a highly reliable 6-axis robot that accurately places the proper paperwork in the appropriate carton, every time.



Machine Tending

Machine tending can be dangerous work and requires the consistency that a robotic solution can provide. Robots replace human interaction to move product from a supply position, transport it to a machine, orient it, and then interact with the machine. Our turnkey designs are capable of handling items as small as a dime and as large as a refrigerator.



Robotic Simulation

Testing different run-time scenarios with actual robots is an expensive proposition. Robotic simulations with software tools from ABB, Fanuc or Kuka, are a great way to reduce time, cost, and errors for robotic systems. Simulations are performed on a PC with exact robot parameters built in as well as other cell components, so testing emulates the real world.



Robotic Sorting

Robotic sorting can offer unparalleled throughput and flexibility. These systems are completely customizable and fully modular, handling items of all shapes and sizes. Our solutions can provide tilt-tray or crossbelt sorters with independent, track-free robots. These sorting techniques increase return on investment by at least double and have no single point of failure.

Integration Options

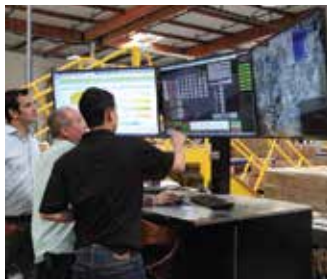


Exacta Warehouse Execution System

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 WES is for highly automated facilities to coordinate labor and equipment through dynamic optimization through real-time inputs.

Exacta Warehouse Management System

The Exacta 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.



Exacta Warehouse Control System

The Exacta WCS orchestrates material and information flow to order fulfillment technology and material handling equipment. It includes several modules of functionality typically found in a WMS to efficiently direct and manage processing within your warehouse.

ExactaBev

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 single stop together.



Exacta Sentinel

Exacta Sentinel is a standalone conveyor 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 than traditional WCS software.

Software Training & Support

We provide customers with essential support functions, including around-the-clock access to technical specialists and an online support portal for reporting, tracking and resolving issues. We offer comprehensive training so that employees that can successfully leverage the Exacta suite within the warehouse.



Human Machine Interface (HMI)

Our solutions partner's HMI solution keeps you connected with your material handling and automation system. Designed to be an intuitive and user-friendly graphical interface, the multiple 3D screens provide a detailed view of how the system is operating. The HMI gives you real-time access to vital operational information. Mobile viewing options on phones or tablets means greater mobility within the facility.

Engineering System Design

We offer custom control system design and integration, along with full system service and support to give you peace of mind in your improved operations. By establishing and encouraging communication with our customers throughout the entire system design and implementation process, we are confident that our customer's desires and needs will be addressed and valued.



Industrial Controls

Our solutions partner's controls services and offerings bring you open, non-proprietary solutions. We are experienced with most major brands of PLCs and are a licensed Rockwell Machine Builder, which is a classification only a handful of controls integrators hold. Utilizing an "Open Controls Architecture" means that at the end of the project, you own all our PLC code complete with design comments.



Panel Shop

Our panel shop capabilities include control panel design, fabrication, testing and quality control, and installation capabilities that extends to the details of power supplies, field boxes and electrical components. Keeping fabrication in house and working directly with suppliers allows us to pass along a savings directly to you.

Software & Controls

As an independent integrator, we offer complete, scalable warehouse software solutions that can also be implemented as separate components. The Exacta™ supply chain software suite can interface with other systems as well as be implemented as a complete solution to your business needs. As a result, Exacta reduces inefficiencies in the warehouse and the need for you to have additional resources to monitor and support additional applications.

Our team will get your control system operational quickly, allowing the benefit of improved operations ahead of your competition. From new to existing equipment and small conveying systems to fully automated conveyor systems, let the expertise and experience 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.

Featured: Best Buy Case Study

Best Buy is a worldwide, omnichannel electronics retailer enriching the lives of its customers through technology. To compete in today's fast-paced ecommerce environment, Best Buy is revolutionizing its supply chain network, creating logistical efficiencies that seems impossible in the past.





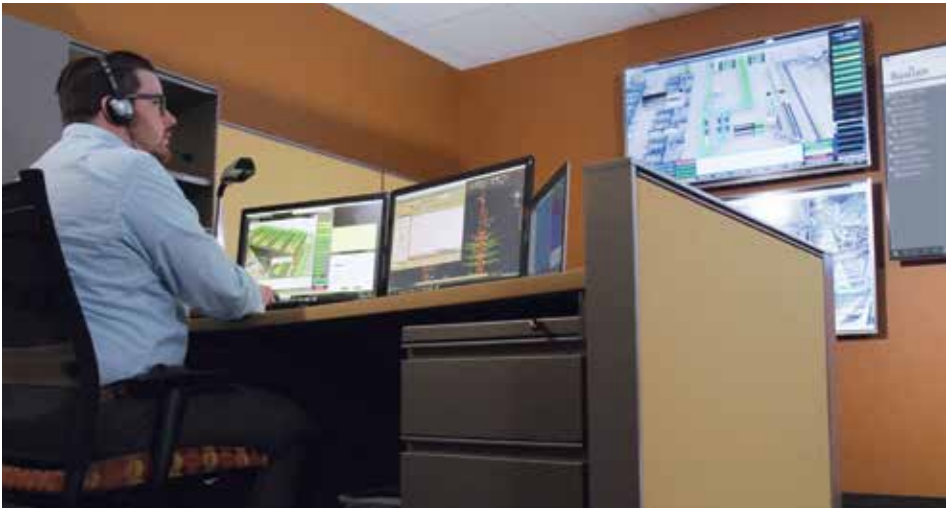
SERVICE

Customer Support

Conger Industries strives to create reliable systems that improve our customer's operations. Whether you need preventative maintenance, replacement parts, repairs or 24/7 system and Exacta software support, we're here to help. We guarantee to respond quickly to any inquires that you have.

Together with our solutions partner, there are expert technicians available to inspect each piece of equipment and proactively address those minor maintenance issues. Regardless of make or manufacturer we are ready to minimize your downtime and keep your operations running smooth.

Resources



Technical Support

Built in support is offered for one full year following project implementation. That includes around the clock assistance for mission critical operations. Our support team provides a primary, secondary and tertiary contact, all from a single toll free phone number. One advantage of Our support program is that once engaged, support technicians will train system experts at your site to ensure the highest reliability and uptime. In an emergency we know that time is of the highest value. These contacts are intimately familiar with your system and are ready to minimize your downtime and keep your operations running smooth.

Maintenance

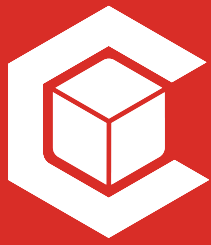
Our solutions partner has 6,000 expert technicians available through Toyota Material Handling North America Service Centers that are experts in maintaining and servicing all forms of material handling equipment. They can inspect each piece of equipment and proactively address minor maintenance issues before they escalate into expensive and unplanned outages. Regardless of make or manufacturer, our preventative maintenance program provides support and around-the-clock assistance, 24 hours a day, seven days a week.



Parts

Keeping up with system maintenance can be easily done at any time through our customer portal. Quickly and easily find parts and accessories through a curated list of products designed for your system.

For general inquiries, we offer a large inventory of material handling products through our online store. Search for custom conveyor, lift tables, workstations, totes, safety equipment, parts and more!



CONGER

CONTACT US or visit our website to see how we can start engineering your competitive edge today!

PHONE: 1.800.226.6437

WEBSITE: conger.com

SERVICE AREA

(service area shaded in white)



CONGER.COM