

Innovation. Expertise. Services.

Services and guarantees

Our associates have the experience, technology, and commitment to provide the best solutions for your material handling needs. This commitment includes supporting you long after the sale is completed. At TGW our goal is to provide an outstanding customer experience through:

- Technical design reviews
- Application testing
- Systems engineering and project management
- On-time, correct, complete delivery
- Customer support 24 hours a day, every day
- Two-year warranty
- Guaranteed system performance
- Customer education and training

Technologies:

TGW products are recognized worldwide as among the highest quality available in the material handling industry. Innovation is a hallmark of our products, many of which incorporate patented technologies.

- Carton, tote and unit load conveyor systems
- Automated order-fulfillment systems
- Sortation systems
- Pick modules
- Automated storage & retrieval systems for
- mini-loads and unit loads
- Equipment Controls
- Visualization Systems
- Warehouse Control Systems

System Solutions

To implement a system that works perfectly for your application you need innovative, reliable technology fully supported by superior expertise and services.

Innovation. Our innovative technologies take material handling to new levels of efficiency and reliability. For example, our proprietary narrow belt sorters reduce energy use by 60% compared to conventional sorters. Our stacker cranes have an anti-oscillation drive that greatly enhances both speed and accuracy. These are just two examples of the many TGW innovations which will result in the best value solution for your application.

Expertise. Experience with a broad range of applications has given us a high level of expertise that will be applied to your design to create the best system solution. During technical design reviews we analyze your material handling requirements, your problems, and your “worst case scenarios” to make sure your system will handle any situation. Often our project managers suggest alternatives that increase productivity and save money.

Services. TGW’s Sales Team and Project Managers go beyond the sale to proactively manage your solutions, making certain that fulfillment and delivery go smoothly and that your system is operating as promised. You also have access to a variety of services including technical design reviews, engineering and project management, continuous customer support, controls design, PLC programming, software and integration, and customer training. You have not experienced exceptional customer service until you have experienced TGW.



Ermanco Carton & Tote Systems



At TGW we believe in innovation that contributes to the success of the system.

You'll see the results of our innovations in measurable terms such as increased throughput, improved accuracy in order fulfillment, and and lower total cost of ownership. We strive for innovation that boosts performance and the bottom line.

- Every one of the 650 NBS® Narrow Belt Sorters we've supplied are performing reliably at or above the specified sortation rate. In many cases investment payback was six months or less.
- The TURBO™ Sortation System boosts narrow belt sortation rates with WAVE™ technology (patent pending). The result is reliable 200 cpm sortation for half the cost of a shoe sorter system.
- XcelSORT® Sliding Shoe Sorters meet the need for hard-to-sort product in the 200-300 cpm range. Total cost of ownership is reduced by its long-life components and simple design which allows quick, easy maintenance access. (would be nice if we could show this)
- IntelliROL® motorized-roller conveyor zones are powered and controlled independently to run-on-demand for maximum control, improved safety, and energy and noise reduction.
- Pick Zone Modules achieve high throughput by using a "velocity transfer" to transfer without stopping. The entire Pick Zone Module is driven by one motor which saves costs.

Innovation with purpose.

Ermanco Carton & Tote Systems



order selection



accumulation

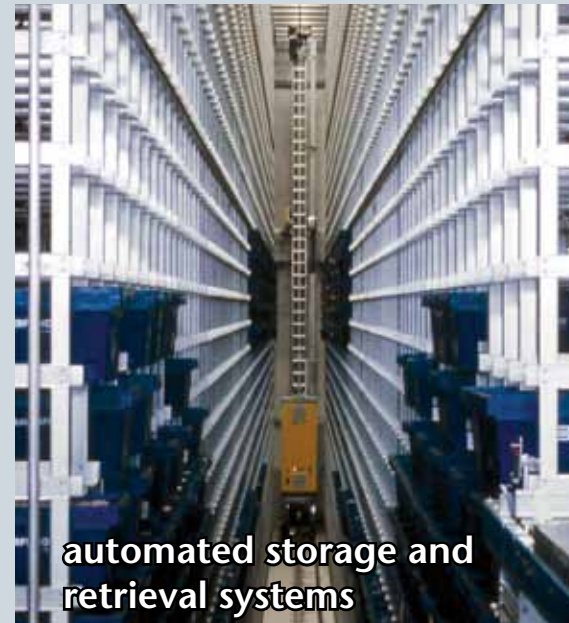


carton & tote integrated systems

Carton & Tote Systems

We are committed to providing the best value every time. Each system is customized by applying proven standard technology to meet the your specific system requirements.

- TGW Induction Conveyors are available with a variety of drive configurations to provide just the right speeds and gaps for each application.
- The innovative drive system of NBA[®]23 accumulation conveyor offers efficient zero-pressure accumulation of mixed weight and size products - even for long lengths with minimal horsepower and energy consumption.
- GAPmaster[™] performs the same functions as a brake meter belt at a much lower cost. It's driven by the same belt as the adjoining NBA 23, eliminating a motor, clutchbrake, controls and wiring for significant savings.
- Cost-effective CRUZcontrol[®] accumulation logic package utilizes a unique electronic sensor control system that accommodates all accumulation control requirements.
- The efficient Mustang mini-load crane stores and retrieves up to 150 loads per hour. The optional anti-oscillation drive enables rapid positioning at the highest speeds and accelerations available.



Expertise for results.

We are more than equipment suppliers. As integrated systems provider, we “think systems” and will provide you with the technology and services you need to implement your system and to make it meet or exceed your expectations.

- Our complete line of ULC™ Unit Load Conveyor technologies includes conveyors for transportation and accumulation, transfer devices, transfer cars, vertical lifts, turntables, sizing stations and automated storage and retrieval systems - everything you need for a pallet handling system.
- Modular ULC components are thoughtfully designed to be easily integrated into a highly efficient customized system. Interchangeable standard components guarantee minimal stocking of spare parts.
- ULC Unit Load Conveyor technology has been used extensively and with excellent success in Europe for 30 years.

Services for success.



Unit Load Systems



horizontal transportation
and accumulation



automated storage and
retrieval systems



transferring



automated load handling

Innovation in the details results in superior performance. The little things are important, and sometimes even critical to optimum operation. Reliability, speed, and versatility are inherent by design in all TGW technologies.

- Both drive and carrying chains on ULCTMCC Chain Conveyor are adjusted to exact specifications with torque-limiting chain tensioners.
- ULCTMVLB Vertical Lifts transport pallets between multiple elevations. Versatility is achieved through single or dual load positions and choice of roller or chain conveyor as the load handling device.
- Maximum drive to each roller of the ULCTMRC Roller Conveyor is achieved by a precision roller chain which positively engages the roller sprocket.
- Horizontal as well as vertical movement of pallets by the ULCTMRT Roller Transfer transfers loads smoothly and reduces pallet damage while improving throughput.
- Rugged ULC conveyors and transfers move loads up to 3,300 pounds and can operate in temperatures as low as -22°F.
- Innovation resulting in exceptional system performance is demonstrated by the Magnus automated storage and retrieval system which can reach heights up to 60 feet and can store and retrieve up to 50 loads per hour.

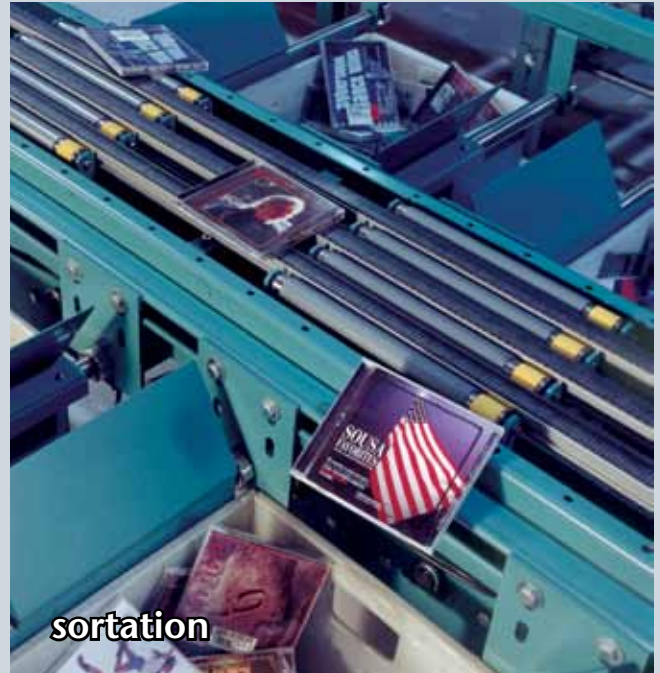
Innovation with purpose.



Systems for Individual Products

Accuracy, speed and flexibility are key to the success of any system. The best designed system fails if any one component does not perform as needed. Our Individual Product technologies provide picking accuracy up to 99.9% for fast, accurate order fulfillment. We have such confidence in all our technologies that we guarantee system performance.

- The **NBS®90SP** Narrow Belt Sorter - Small Products conveys products at speeds up to 300 feet per minute and achieves a sort rate of 120 products per minute. A series of narrow belts, each with individual take-up, enables the system to precisely track products as they reach specified divert points. High-friction rollers then rise to grip and gently divert products at a 90° angle in either direction.
- The **A-Frame** Product Dispenser processes up to 1800 orders per hour and can eject up to 6 products per second. It handles products as small as 1-1/2" X 3/4" X 5/8". The unique stock monitoring scanner allows both a dynamic refilling strategy and seamless production batch tracking.



Expertise for results.

Our success is our success.

Successfully implementing a system requires expert advice on selecting, applying, installing and controlling the technologies that comprise your system. TGW has that expertise and will use it to your best advantage.

Supply Chain Solutions

Sales Team

Besides providing proposals and sales assistance, your Sales Manager will facilitate our many services such as applications engineering, technical design reviews, and training. Our goal is to give you an outstanding customer experience.

Technical Design Reviews

Knowledgeable Application Engineers will review your system design, making suggestions to ensure you are using the best and most cost-effective technologies and efficient layout to implement the optimum system for your application.

Application Testing

Once a system is conceived, testing in the TGW Technical Center verifies the system will reliably handle your products and consistently meet operational requirements.

Controls

Software and controls are defined to integrate your entire system for seamless operation.

Implementation Services

Project Management

TGW has field-proven success in managing system implementation for a wide variety of applications. Our experienced project managers make the process worry-free.

OTCC Delivery

One of the critical steps of implementation is delivery of the right hardware and services at the right time. We deliver your order on time, correct, and complete.

Installation

Take advantage of our efficient installation services. Then let us fine-tune your system with commissioning services.

System Launch Support

TGW will provide skilled associates to stay on your site after startup to ensure a smooth transition to your new system. On-the-job training of operating and maintenance personnel is also available.

Lifetime Services

Comprehensive System Audits

We will perform an audit of your system operation and your maintenance procedures.

Maintenance

We provide comprehensive preventive maintenance services. Or, if you prefer, we also offer on-site staff who will assume responsibility for the maintenance of your system.

System Upgrades and Expansions

TGW engineers are always ready to assist when your existing system needs updates or expansion.

Technical Support and Emergency Services

Customer Support is provided 24/7/365 to help keep your system running at peak performance. Trained field engineers are also available on-site to help get your system back to full operational capacity.

The Conveyor Institute

Useful seminars on TGW technologies, proposals, and applications are led by our experienced material handling professionals. We offer on-line training, layout, and technical design review meetings.

Services for success.



Mission

To meet or exceed all customer expectations by providing the highest quality products and services, on time, at exceptional value, in an environment which promotes safety and personal development.



TGW GmbH, Wels, Austria



TGW Systems, Spring Lake, Michigan

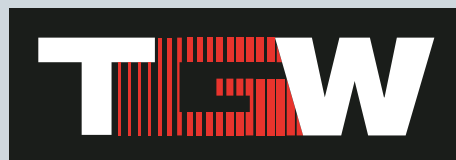
About TGW

TGW is an integrated logistics solutions and material handling equipment provider for both large and small companies. Our expertise is in the planning, design, implementation, and lifetime service of integrated logistics solutions to help a company's supply chain. TGW is a global company with a worldwide perspective and resources.

TGW in America had its beginnings as Ermanco, which was founded in 1964. Ermanco developed breakthrough line-shaft-driven live roller conveyor technology as well as Narrow Belt Sortation. In 2005, TGW GmbH of Austria purchased Ermanco, creating a global company.

The Ermanco name lives on as our family of conveyor and sortation technologies manufactured in the US.

As a global TGW, we've provided hundreds of automated material handling systems to many of the world's largest companies. With a commitment to innovation, product development, and unparalleled customer service, let TGW help you today.



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