



Efficient and consistent sortation up to 100 ppm

NBS 30 conveyor employs a series of narrow belts, each with patented individual take-up. 30-degree diverting is accomplished by three rows of divert wheels powered by the main conveyor. The simple innovative design reduces cost and energy consumption while increasing sort reliability. The main conveyor drives the divert wheels so no additional drives are required.

The NBS 30 carries product at speeds up to 300 feet per minute and achieves a sort rate of up to 100 products per minute. NBS 30 diverts experience less tipping and skewing of product, and overall superior and more accurate diverting characteristics than other diverts. Even unstable products are successfully diverted with the exclusive limited slip-clutch design, which provides a small acceleration ramp for diverting.

During the last 10 years, energy consumption of TGW NBS has been reduced by 87.5% compared to the original ERMANCO EWX sorter, which has a conventional sorter construction. This energy savings also translates into less noise, belt pull, and component wear. Energy usage is 60% less than for conventional sorters. In addition, field reports indicate that installation time for NBS sorters is close to 50% of conventional sorters due to the simplicity of the construction and belt path. NBS diverters can be easily repositioned to perfectly suit the application or to reconfigure. Belt mistracking is eliminated with the total belt retention system. Maintenance requirements are minimal.

Technical Specifications

Maximum Speed	300 fpm
Maximum Throughput	100 ppm
Maximum Product Weight	75 lbs
Dimensions of Product	Minimum 6" x 9", Maximum 28" x 36"
Minimum Distance Between Products	18"
Minimum Distance Between Divert Points	Spur width x 2 + 5"
Maximum Length of Sorter	200'

Ermanco NBS® 30 Narrow Belt Sorter



A series of narrow belts, each with its own take-up, span the length of the conveyor. High-friction divert wheels rise between the belts, accurately diverting product at a 30-degree angle. The NBS 30 is as efficient as it is fast—divert wheels are driven from the main conveyor, eliminating the need for extra drives.

Feature	Benefit
Main conveyor drives divert wheels	Minimum power consumption and operating cost, best value capital investment
Product is conveyed along entire length on belt	Quiet operation, increased accuracy of diverts
Simple design	Ease of maintenance
Individual belt take-ups	Smooth product flow, long belt life
Three rows of divert wheels with precision bearings	Reliability of divert, maintaining orientation
High-friction divert wheels with precision bearings	Positive and quiet divert
Modularity of divert mechanism	Allows easy reconfiguration of system

U.S. Patent 6,834,365

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.

Solutions and Support

- DC Design and Operational Assessment
- System Integration
- Full Life-Cycle Support and Training
- Equipment Controls
- Visualization and Warehouse Control Systems
- Carton, Tote and Unit Load Conveyor and Sortation Systems
- Automated Order-Fulfillment Systems
- Automated Storage and Retrieval Systems for Mini- and Unit Loads

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