

FlexLink pallet applications
in the automotive and electronic industries



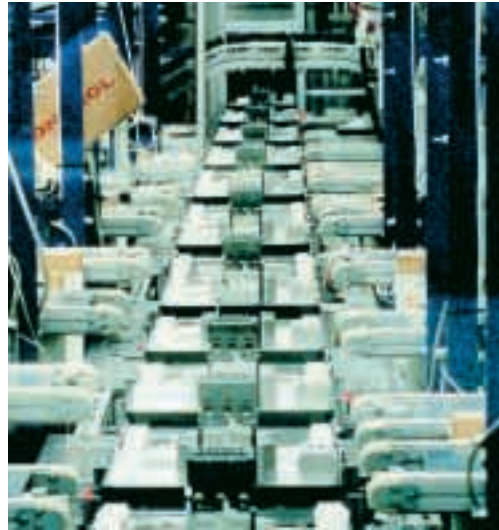
FIRST CHOICE FOR EASIER AUTOMATION



FlexLink®

A flexible, durable and modular assembly solution for the future

The FlexLink XT twin track conveyor system is a flexible plastic chain pallet conveyor. The system is especially well suited for manual and automatic assembly and test systems in the automotive and electrical/electronics industries. The modular concept allows simplified engineering and ordering, as well as fast configuration for improved productivity.



◀ Dynamic Assembly System (DAS) implementation for the manufacture of individual contactors utilizing integrated on-line assembly flow management (AFM) software.



▲ Automatic welding and riveting assembly line for a complete car seat guide rail.

System data – XT

- 25 m maximum conveyor length/module
- 30 m/min maximum conveyor speed
- 240, 320 and 400 mm square pallet sizes
- 30 kg maximum pallet weight
- 250 kg maximum accumulated weight at 5 m/min
- +/- 0,5 mm locating accuracy

Dynamic Assembly System

- From manual to automatic assembly with frequent product changes.
- Integrated production control system and material flow control.
- Dynamic layout for parallel and/or sequential flow.
- High volume mix flexibility with “push or pull” capability.
- Dynamic buffering for balanced production flow.
- Plug and play capabilities for improved productivity.

Main features

- Simplifies your assembly process.
- Flexible and reusable.
- Easy to design and build.
- Fast ordering and delivery.
- Easy to adjust and change.
- High up-time and short time to repair.
- Proven chain technology.
- Compact wheel bend design.
- Accessories for electrostatic discharge (ESD) and cleanliness control.
- Able to meet 100 V static level upon request.



▲
Complete fan house assembly line with serial flow for vacuum cleaner.

Visual control / top assembly line providing tailor-made assembly and quality check-up of personal computers.



FlexLink provides compact horizontal and vertical bends with no need for extra drive units or sensors combined with high up-time and short repair time.

Individual ergonomic operator stations in a DAS line for manual final assembly of sewing machines.



A sturdy design and ample pulling power allowing transport and accumulation of heavy work-pieces

The FlexLink plastic chain conveyor system XK features a modular and safe design allowing flexible transport and accumulation with great accuracy, even in hostile environments.

A complete range of standard divert / merge devices come in easily assembled standard component kits for easy and fast configuration of highway / satellite layouts, which can be attached to an existing conveyor without the need for cutting or welding of the beam.



System data – XK

- 40 m maximum conveyor length/drive unit.
- 50 m/min maximum conveyor speed.
- 200–150, 250–225 and 300–300 mm standard pallet sizes.
- 30 kg maximum pallet weight.
- 800 kg maximum accumulated weight at 5 m/min.
- +/- 0,1 mm locating accuracy.

Main features

- Satellite installation with a minimum of interference through standard divert/merge devices.
- Short delivery times, with divert/merge devices as standard products.
- The robust and wide XK pallet guide rail system ensures a smooth and reliable transport, also for wide products.
- A drip catcher system providing a clean working environment.
- Standard modular devices proving flexibility highway/satellite layouts as well as reliability, low installation and lifetime operating costs.

Satellite system for automatic gluing of loudspeaker bass unit elements.



Highway main flow with integrated manual workstations operated by a pneumatic stop.



B&W Loudspeakers Ltd.



Pallet in-feed and accumulation line for manufacturing of motor parts with standard divert/merge devices and wheel bends requiring a minimum of drive units.



Circulating final assembly line of adjustable steering columns to commercial vehicles.



The design of the XK pallets allows accumulation through bends.



Closed top chain featuring overlapping plates for pallet applications.

A wide range of pallet components for light to medium loads ensuring cost efficiency, static control and cleanliness.

The pallet handling components for conveyor systems XL and XM are designed for light to medium loads from maximum 3 kg (XL) up to maximum 8 kg (XM). The pallet handling components are fully compatible with the other components in the FlexLink programme. A wide range of chain and slide rail options are available, ensuring the best possible solution regarding static levels and cleanliness. Designing and building a FlexLink pallet conveyor is quick and easy, and the resulting conveyor retains the flexibility typical of all FlexLink products.



Electrostatic discharge (ESD) protected pallet assembly line of hard disc drives in clean room.

Fully automated test station with integrated pallet conveyor for steam irons.



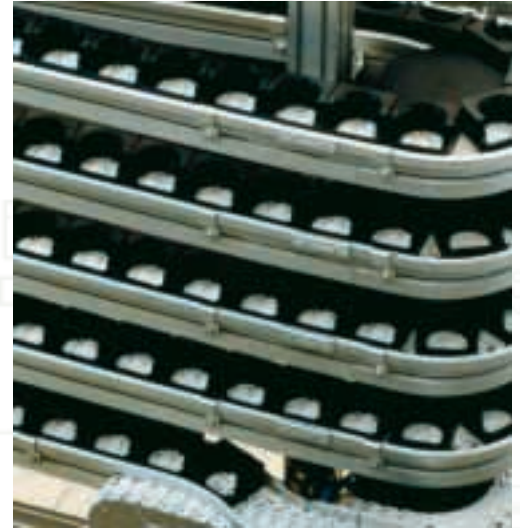
Pallet buffer in a manual working station for assembly of electrical shavers.

System data – XL and XM

- 40/30 m maximum conveyor length/drive unit.
- 60 m/min maximum conveyor speed.
- 100–100/150–120, 150–150, 150–200 and 150–250 mm standard pallet sizes.
- 3/8 kg maximum pallet weight.
- 150/200 kg maximum accumulated weight at 5 m/min.
- +/- 0,1 mm locating accuracy.
- Able to meet class 10 clean-room standard (US Federal Standard 209E) upon request.
- Low ESD volts and resistivity values ranging from conductive to dissipative.



Inline FIFO pallet buffer for car horn production, using XM alpine standard concept without the need for additional drive units and controls.



Low static calibration line using conductive pallets and chain for automatic testing of electronic measurement instruments.



Main features

- Installation with a minimum of interference of the production process.
- Short delivery times, with pre-bent guide rails, pallet stop and locating stations as a few examples of standard products.
- Wide range of reinforced polyamide pallets with standard accessories for fast and cost-effective expansion as well as in-line accumulation.
- The XL flanged guide rail system ensures a smooth and reliable transport even for wide products on pallets.
- Complete range of accessories for static, ESD and cleanliness control.
- Standard components providing flexibility and compatibility with existing FlexLink conveyors.

Automatic end of line palletizing cell using custom manufactured pallets in a twin track configuration for a fuel injector calibration line.

