OPTIMIZING YOUR MANUFACTURING

ASSEMBLY OPERATION UTILIZING PALLET-HANDLING CONVEYOR SYSTEMS

REAL VALUE ADDED BY INDUSTRY



Manufacturing companies contributed \$2.17 trillion to the U.S. economy according to the most recent annual data. source: www.bea.gov

FACTORY AUTOMATION IS THE KEY



Pallet conveyor systems continue to be a crucial component for virtually every manufacturer seeking to improve profits. source: www.nam.org/Newsroom/Top-20-Facts-About-Manufacturing/

WHAT ARE THE CHARACTERISTICS OF PALLET CONVEYORS?



Transfers materials and work in process from one point to other.



Items transported can be small and delicate, or heavy and bulky.



Pallets range from around 10 x 10 inches to 48 x 48 inches.



Carry loads of **less than a pound, up to several hundred** per pallet.

VARIOUS PROCESSES CAN BE PERFORMED



Pallet carries parts to be assembled to an operator or robot.



Pallet may be freed from the conveyor when it reaches the operator or robot, then returned once assembly is complete.



Pallet can be lifted, rotated and positioned while still on the conveyor.

ADAPTABLE

PALLET CONVEYORS CAN...



Pallet conveyors allow for materials to be moved and stored effortlessly. This **streamlines and standardizes material handling**.



Eliminate operations that

require labor but do not add

value. For example rotate its

pallet to a desired orientation.



Modular approach helps manufacturers adapt to changing demands and production requirements.

TYPES OF PALLET CONVEYOR SYSTEMS



All processes happen in time with each other.

All pallets move in the same direction at the same time.

NON-SYNCHRONOUS



All processes can be independent of each other.

All pallets can be removed and reintroduced to the line as needed.

ADVANTAGES OF MODULAR PALLET CONVEYORS



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IN-LINE	OVAL	SERPENTINE	PARALLEL	RECTANGULAR	OVER-UNDER

The modular design of pallet conveyors **provides for a variety of different configurations that maximize your floor space**, allowing the same system to run multiple products with little change-over.

PALLET CONVEYOR MODULES LIFT AND ROTATE **VERTICAL TRANSFER MAINLINE CONVEYORS** LIFT AND TRANSFER UNITS (VTUs) devices lift the pallet off move pallets between are typically dual strand. move pallets between the mainline, traverse or Featuring accumulating adjacent lines at a right various mainline spur conveyor and angle. Is positioned roller chain, flat top chain rotates it either 90° or elevations in Over and between the strands of or timing belts as the 180° and lowers it back. Under pallet systems. the mainline conveyor. conveying medium.

PALLETS an essential component in modular pallet-handling systems. They come in a variety of different sizes, styles and materials. PALLET STOPS are used to stop, separate or queue pallets at or before a particular location or assembly station. POSITIONING UNITS accurately and precisely locate the pallet, lift it off to maintain location, while the conveyor continues to run.

TRAVERSE OR SPUR CONVEYORS Transverse move pallets short distances, between mainline runs and Spur in and out the mainline.

WHY CHOOSE VersaMove Pallet-Handling Systems?



The VersaMove workpiece pallet conveyor system allows for cutting-edge productivity and efficiency, while still providing the flexibility needed for a broad array of industries and operations. Available in three sizes, it can be expanded or reconfigured to meet



company's needs. **mk North America designs and engineers the VersaMove pallet-handling conveyor systems.** We fully assemble all modules, build and test each system prior to shipping. **We work with experienced systems integrators.**



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