



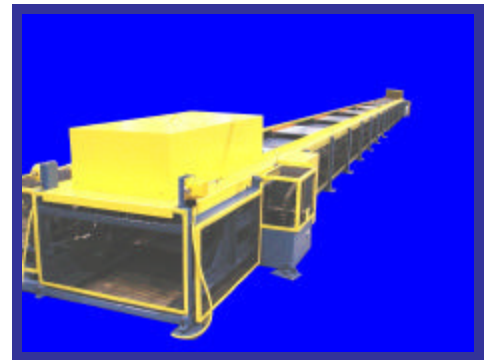
1st and 2nd Quarter 2006

OMNI provides ergonomic and material handling equipment for the manufacturing and automotive industry. OMNI's recent innovative projects include Body Side Over/Under and a Engine/Transmission Marriage Conveyor for GM Lansing Delta in Lansing, Michigan. Other projects included a Dock Sequencing Conveyor system for Magna Powertrain in Lansing, Michigan and a Lineside Delivery System for Toyota in San Antonio, Texas.

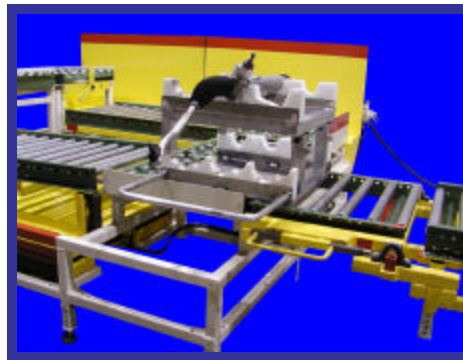
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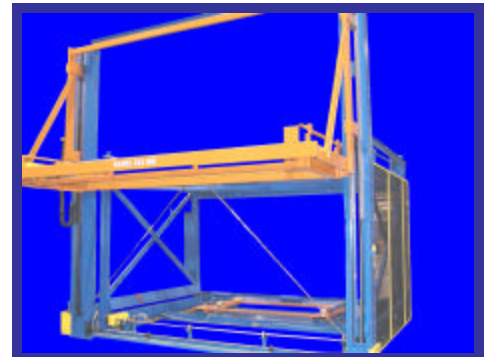
**Engine Transmission  
Marriage Conveyor**



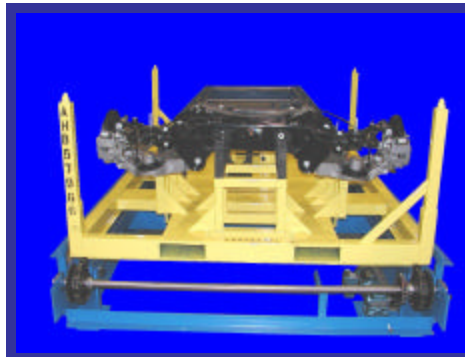
**Lineside Delivery  
System**



**Body Side Over/Under**

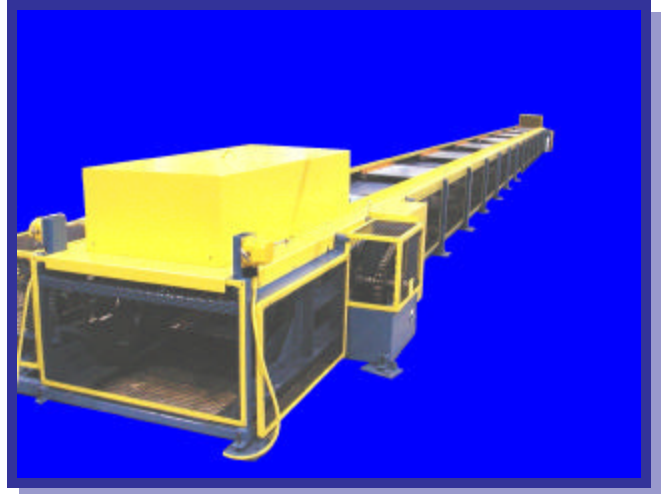


**Dock Sequencing  
Conveyor System**



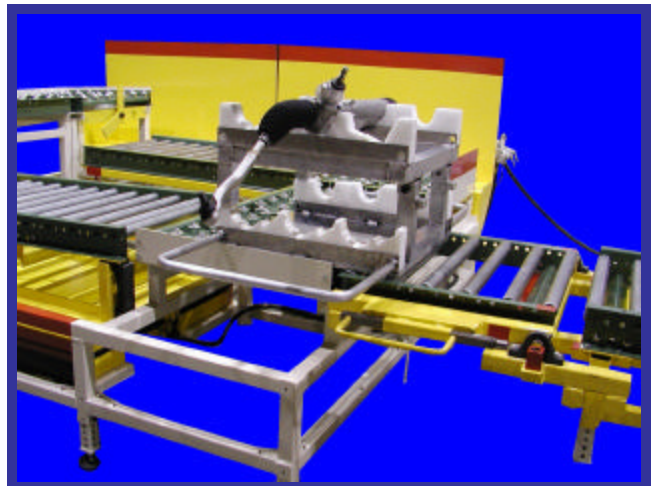
## GM Lansing Delta Engine/Transmission Marriage Conveyor

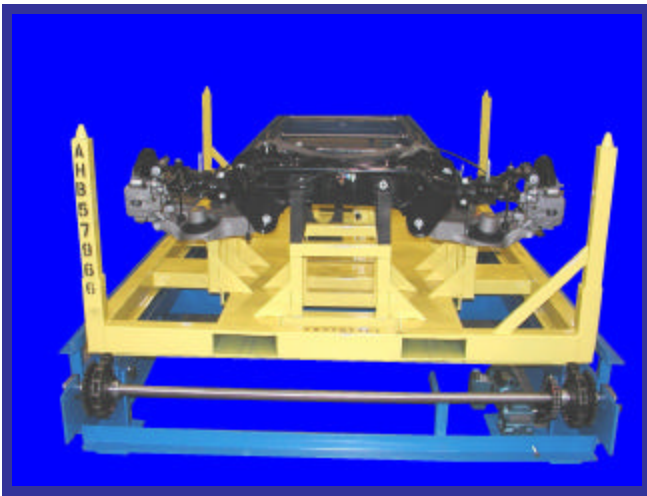
The engine and transmission for GM's new Buick Enclave get assembled on OMNI's newly designed synchronous pallet conveyor. This conveyor is quite unique in that the assembly pallets do not invert 180° when returning on the lower level. Also, there are no lifts at each end of the conveyor to accomplish the recirculation. This ingenious design also combines low, ergonomic operator height with a pallet capacity of 2,000 pounds.



## Toyota Lineside Delivery System

When Toyota needed a low-cost approach to lineside part presentation at their new San Antonio, Texas plant, they came to OMNI for a solution. The part in this case was the power steering link. It was to be delivered to the assembly line in proper sequence. This was accomplished by loading the parts in the correct order into a pallet at a remote staging area. Here, the pallets are loaded onto tugger dollies equipped with a gravity conveyor. These are then towed by a tugger to the assembly line. The lineside system is basically a gravity side-by-side pallet indexer. The addition of a pneumatic lift gets the pallet of parts up to an ergonomic height for operator unload. When the pallet is empty, it is pushed by the operator down an outbound gravity ramp for loading back onto the tugger dolly. OMNI not only designed and built the lineside conveyor, but also supplied (11) pallets and (3) tugger dolly conveyor systems to Toyota.

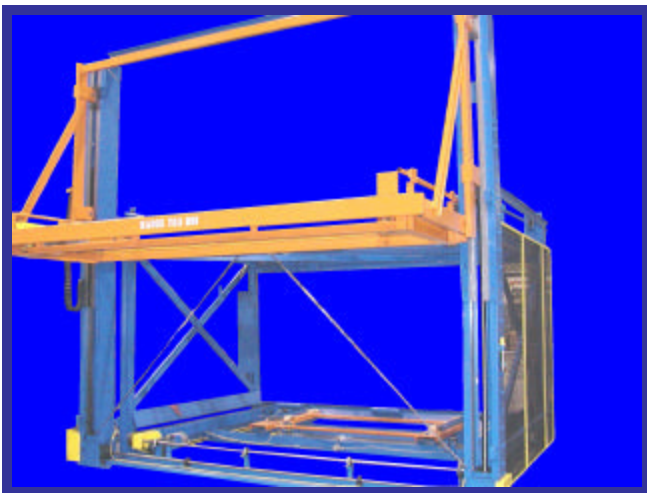




## Magna Powertrain Lansing Dock Sequencing Conveyor System

This system allows racks full of parts to be automatically arranged in a precise sequence and then loaded automatically into a trailer for shipment to the assembly plant. The system is programmed to a customer's pre-arranged assembly requirements. This is an ongoing process that is fully automated and repeated as each truckload of empty racks is unloaded and replaced with full racks.

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## GM Lansing Delta Body Side Over/Under

OMNI recently designed and built (4) body side over/under rack indexers for use in the body shop at GM's new Lansing Delta Township plant in Lansing, Michigan. These conveyors receive fork truck loaded racks full of sheet metal components. These full racks are automatically indexed to the unload position. Here, a robot picks the parts, one at a time, from the rack and places them into a welding fixture. When the last part has been unloaded, the empty rack is lifted with the ball screw carriage and is conveyed automatically back toward the fork truck unload position.

OMNI Technical Services Inc. is a single source solution for part, rack and pallet handling problems. We offer a variety of standard and patented systems to help companies reach their goals of higher production and lower costs.

OMNI is located in St. Johns, Michigan. Our engineering professionals have many years of experience in systems design. Our 45,000 ft. facility provides the manufacturing capabilities necessary to meet volume production and delivery requirements.

Established in 1978 to serve manufacturing industries, OMNI has devoted years to the design of pallet handling systems and many more to test and develop them. Through this, we have achieved a proven line of ergonomic products and 22 years ago we started an in-house division. This division, **OMNI Ergonomics**, with its specialized experience and engineering can better handle and integrate your ergonomic applications.



*“OMNI is committed to provide continuous quality improvement and solutions that will increase the satisfaction of our customers with efficiency, first run success, on time delivery and zero defects.”*

**WE'RE ON THE WEB!**  
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[WWW.OMNI-TSI.COM](http://WWW.OMNI-TSI.COM)



3-position Side x Side with  
Lift, Tilt and Rotate



7-Position Straight Line  
Indexer



Lift and Tilt with Conveyor