

New Innovative Part Handling Solutions

Volume 1, Issue 1
9/29/03

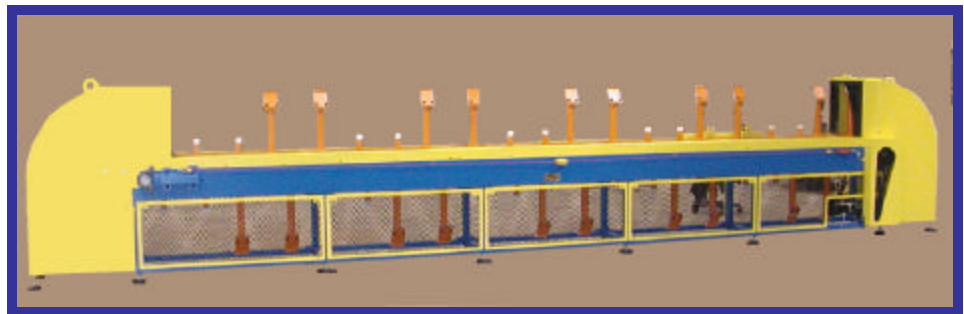
OMNI designs and manufactures conveyors for assembly and sub-assembly operations. The system can be configured for stop and go zone accumulation or continuous running. OMNI can design pallet fixtures for many styles of parts with ergonomic features to help your op-

erator. Rotate, tilt and lift motions with movable details can be designed as required. System integration with torque fastening devices, lift assists, and manipulators offer the customer one source for turn key systems.

Zone & Continuous Running
Sub-assembly Conveyor for
Front Suspension & Engine
Assembly

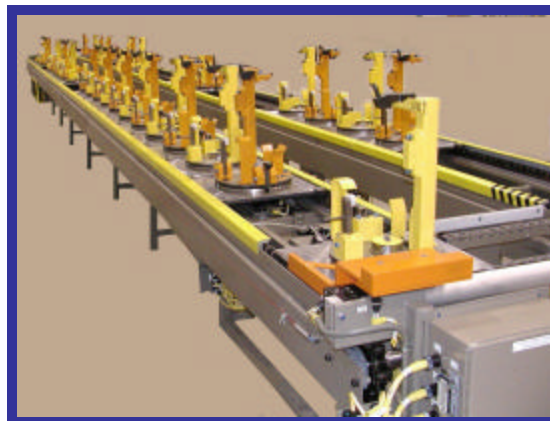


Fixture Slat Conveyor
for Forklift Dash Board
Assembly



Inside this issue:

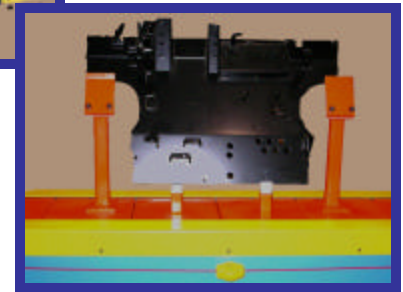
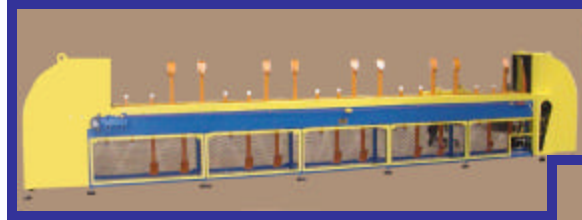
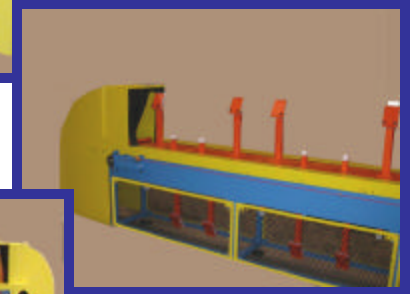
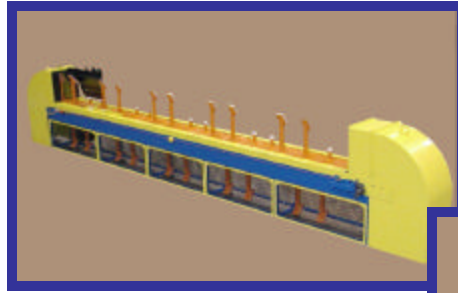
Fixture Slat Conveyor	2
High Roller Accumulating Pallet Conveyor	2
Sub Assembly Conveyor	3
OMNI Zone Side by Side	3
Company Overview	4



Accumulating Pallet
System with Roller
Flight Chain for Hub
Assembly

Fixture Slat Conveyor

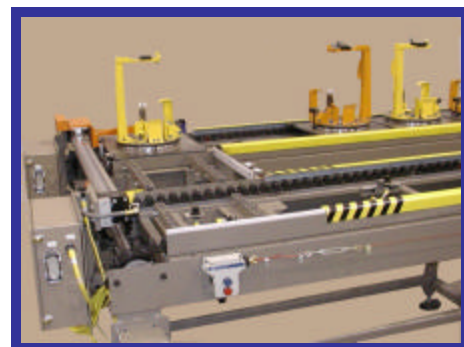
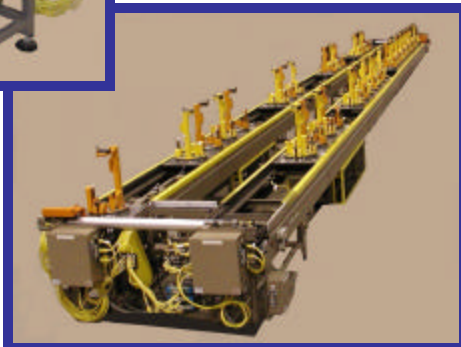
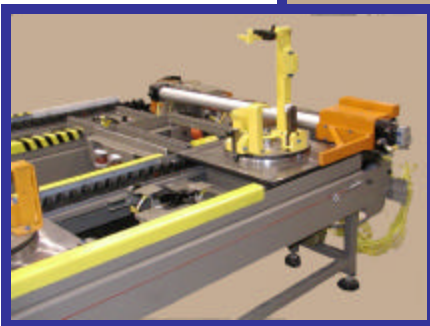
This five (5) Station Forktruck Dashboard Assembly Conveyor is 21' from head-shaft to tail-shaft with (44) 12" x 12" slats fastened to C2080H conveyor chain running on UHMW wear-strips. There are eleven (11) total part fixtures on a 48" spacing. A dashboard panel is loaded at Station #1 and conveyor indexes panel to next station. At each of the next three (3) stations parts are fastened onto the panel by operators. At Station #5 the completed panel is unloaded from the conveyor. A variable speed drive was used to select various production rate requirements.



High Roller Accumulating Pallet Conveyor

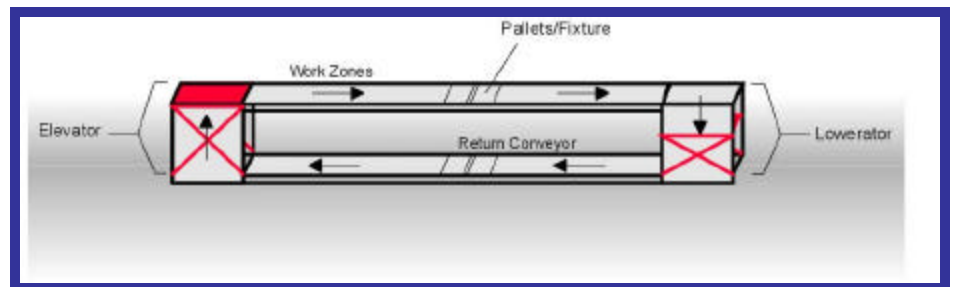
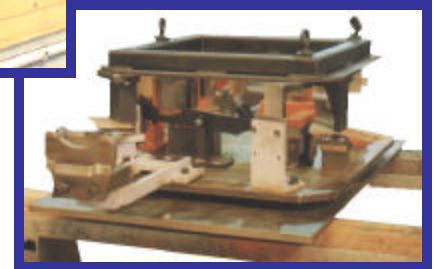
This system was designed and built for the Ford F-150 Pickup program. This conveyor provides for six assembly operators who are performing various assembly functions to the right hand and left hand front corner wheel

drive and one back-up drive with a reversing slave drive for return conveyor. Corner pop ups were pneumatic powered for up and down movements. The horizontal transfer motion was achieved with rod less cylinders and pusher details.



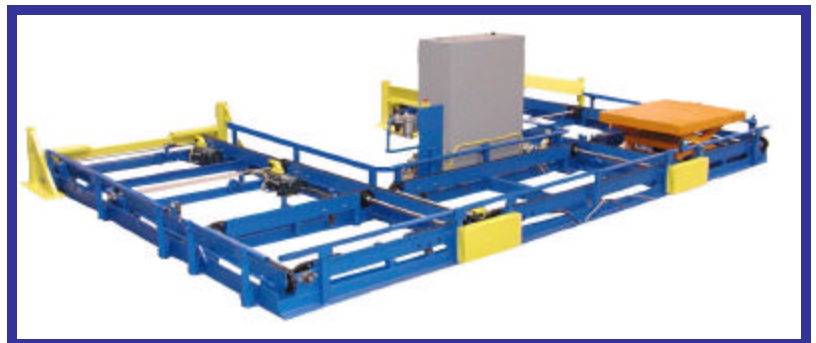
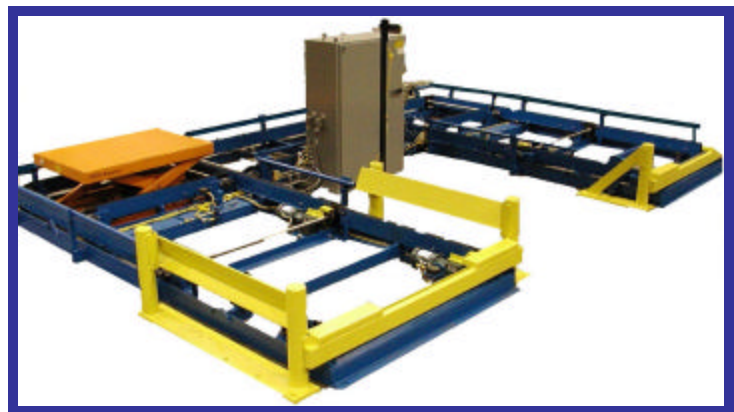
Sub-Assembly Conveyor

This system is 120'-0" long zone accumulation over under. (Can also be continuous running.) This system was designed for the assembly of cross members, control arms, rack & pinion, axels, wheel hubs, and engines. Part assembly is done on the upper run with empty pallets returning underneath on a lower conveyor. High speed elevators at each end automatically returns the pallet to the required level.



OMNI Zone Side by Side

This unit was designed for the General Motors Fairfax Assembly Plant to handle Fuel Tank racks. As racks are loaded onto the OMNI Zone Power Conveyor, they proceed to the air powered lift station. Here the operator pulls the Fuel Tanks out of the rack. As levels of parts are taken out, the operator raises the lift for convenient, ergonomic handling of the parts. The operator then presses a cycle complete button and the empty rack is indexed to the outbound zones and a new full rack is indexed into the operator position.





"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!
VISIT US AT
WWW.OMNI-TSI.COM

OMNI Technical Services Inc. is a single source solution for 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 18 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.

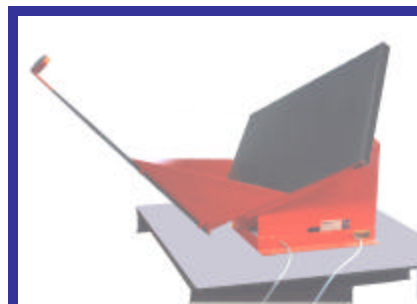


OMNI Ergonomics

Division Of OMNI Technical Services, Inc.



Zero Level Lift



Corner Tilt



Air over water operator lift.