

New Innovative Part Handling Solutions

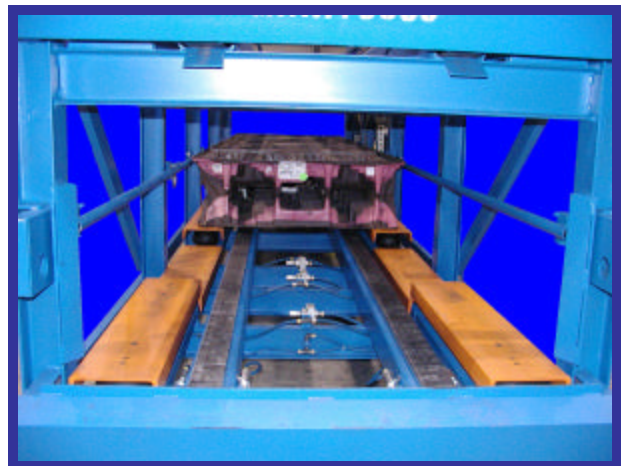
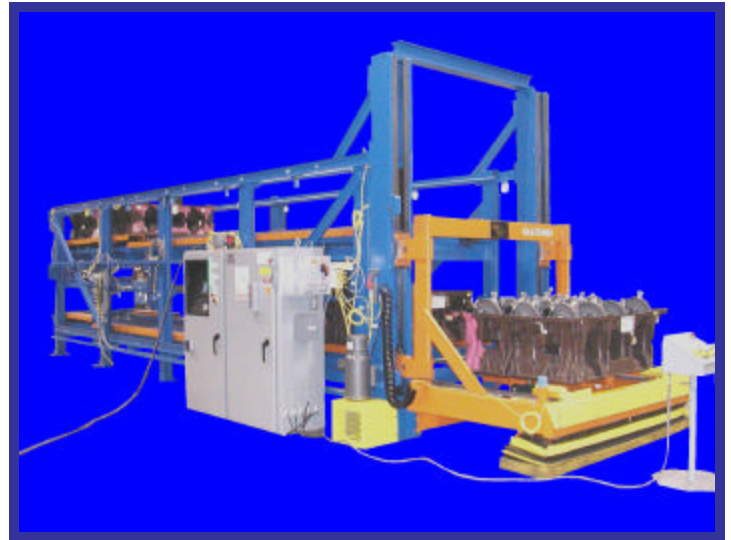
Volume 1, Issue 3
3/22/05

13-Position Over Under Conveyor system with dual ball screw elevator, 2 strand flat top chain conveyors and air bag pop up zones for non-contact pallet accumulation. The elevator also features a 180 degree powered rotate. The front hub pallet is all plas-

tic and does not provide a stable conveying base. The flat top chain and pop up zone can accommodate a tough conveying application. (Metal side guards not shown for clarity).

Front Overall View

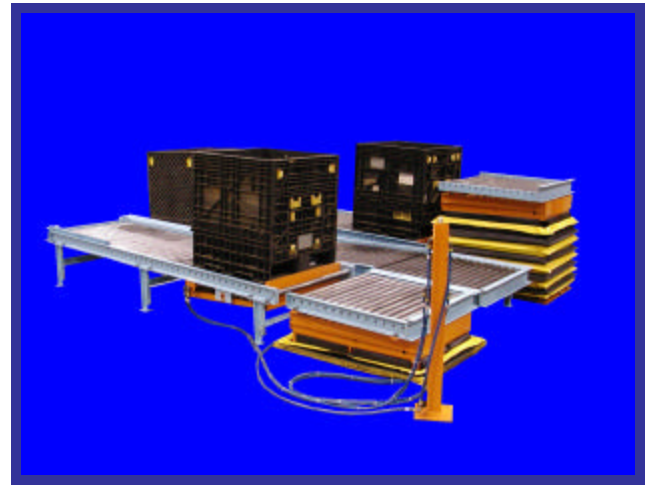
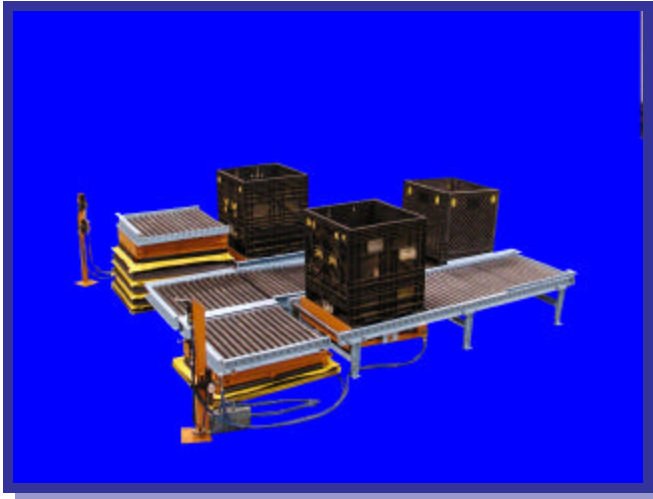
Rear Overall View



Rear view showing air bag pop up zones

Inside this issue:

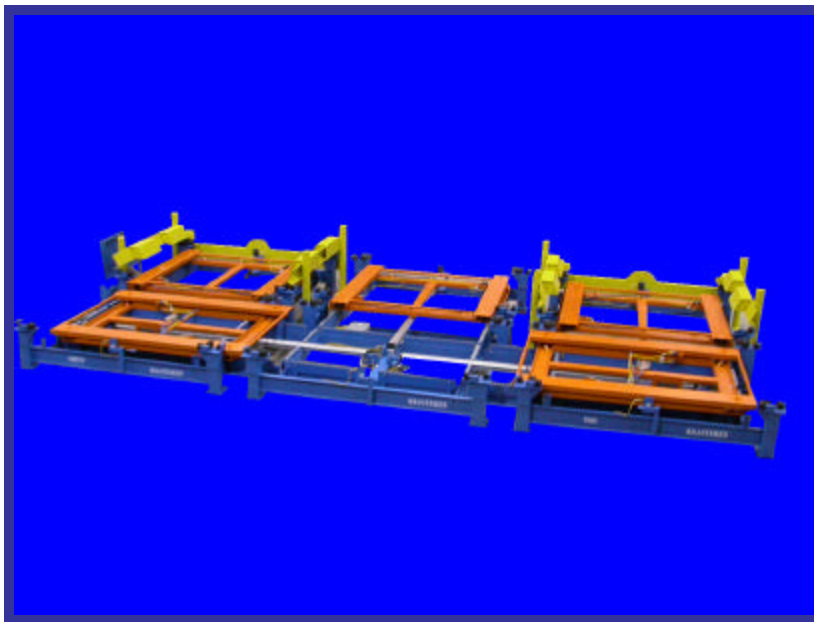
13-Position Over/Under for Front Hub Pallet	1
9-Position Gravity Side by Side for 32x30x34 Plastic Containers	2
6-Position Lift & Carry Shuttle Side by Side for Body Panel Racks	2
Flexible Manipulator Tool	3
2-Position Powered Turn Table for Robot Cell	3
Company Overview	4



9-Position Gravity Side by Side

9-Position Gravity Side by Side with (2) full container gravity conveyors feeding (2) scissor lifts and (1) outbound gravity conveyor for empty containers.

2-way stops meter containers onto the lift tables. All pneumatic controls and air logic for interlocked motions.

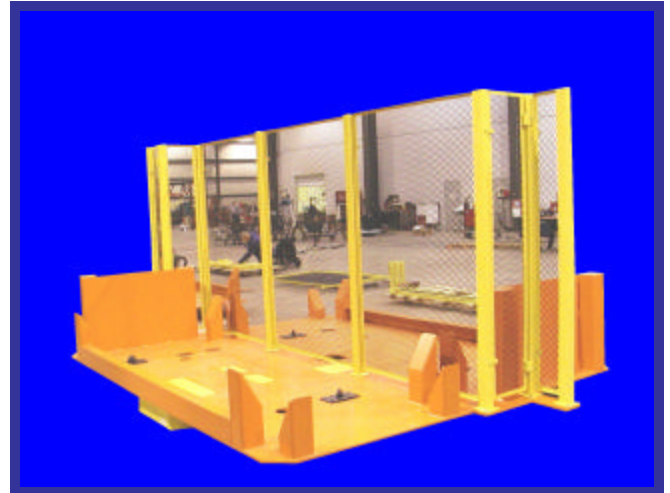
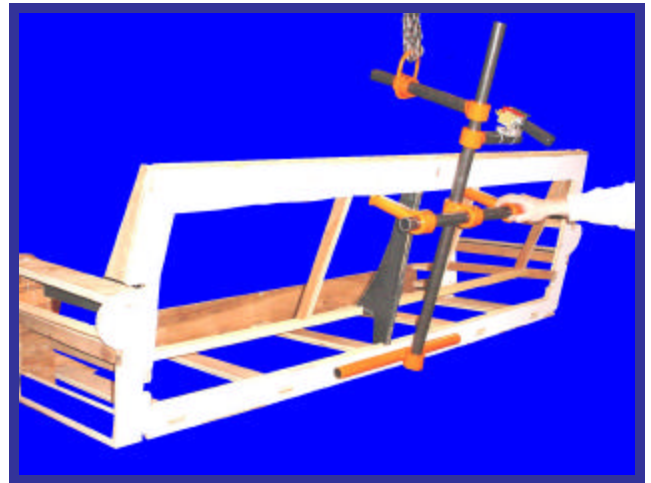


6-Position Lift & Carry Shuttle Side by Side

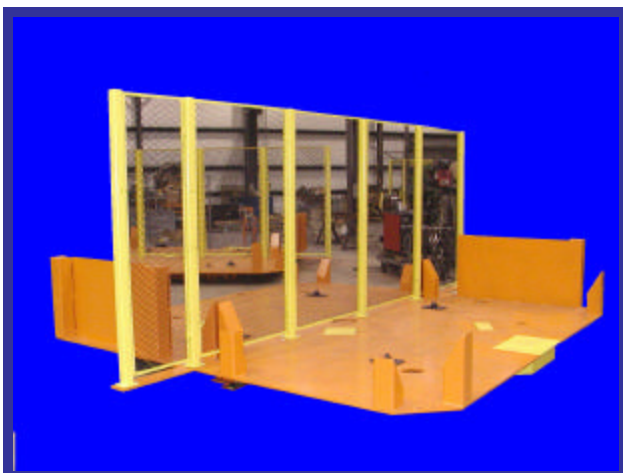
(1) of 10 systems built for robot unloading of body panel racks for an Automotive Manufacturer. RH and LH full racks lift and carry shuttle in bound on the (2) outside lanes. When the full racks are empty they lift and shuttle to the center outbound lane and lift and shuttle again out the center lane for fork truck unload. Racks were 108"x90"x51" high.

Simple and very flexible manipulator tool handling various couch and chair frames for a furniture manufacturer. A bridge crane and hoist system was also supplied but is not shown.

Flexible Manipulator Tool



2-Position Turn Table for Robot Cell



Caster Bearings support air motor/reducer driven turntable for robot rack unload in an Automotive Body shop. 180 degree shot pin stop and tapered pin rack locators were included for rack positioning.



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 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 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

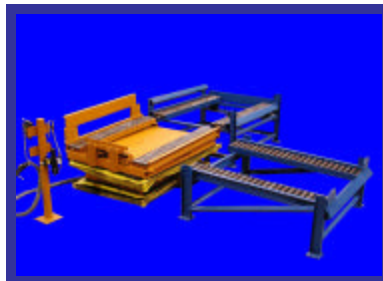


OMNI Ergonomics

Division Of OMNI Technical Services, Inc.



5-position Side x Side with Lift Table



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



Lift and Tilt with Conveyor