

Tire Platform & Transporter



APPLICATION:

A major construction equipment manufacturer required equipment that would eliminate one person from a tire mounting procedure on their assemble line.

SOLUTION:

The system consists of an air bearing platform mounted under a tire handling fixture platform. The air bearings allow virtually friction-free, omni-directional movement of heavy loads by manual movement of optional air motor powered steerable drive (0-180 degree rotation). The operator loads the tire on the platform with an overhead crane or fork truck and activates a clamping fixture. The clamping fixture is a fail-safe design that allows for positive tire holding in case of a loss of air pressure to the transporter.

BENEFITS:

- Handling fixture can be raised or lowered (0 – 6") to adjust to a proper axle alignment.
- A pneumatic scissors lift keeps fixture properly positioned during lifting; the operator then can move the tire onto an axle.
- Free access from back side allows for good visibility and clearance to mount tire onto axle.
- All controls are pneumatic rocker switches and located on back of U-handle.
- All controls and valves are easily accessible from back side.
- System air requirements are (60 PSI @ 75 CFM).
- Transporter can be easily lifted onto truck by crane or fork for movement to new location.