

Pallet Level Loader Increases Productivity While Reducing Worker Fatigue



Features/Benefits Provided:

- As a freestanding level loader it has the added advantage of being easily moved to where it may be needed at any particular time.
- Completely mechanical operation (no power connection required) and complete freedom from maintenance. There are no hydraulics and no air – nothing to spill or leak

This is leading manufacturer of porcelain electric insulators produces a broad line of types and sizes. The electric insulators range from small 5 pound units to several hundred pounds.

The Problem:

The heavier insulators are handled with power lifting equipment, other sizes are handled manually. Loading and unloading insulators stacked on skids four or five feet high involves considerable stretching and bending on the part of workers.

At inspection stations, work pieces were removed from stacked skids and workers would find themselves lifting insulators from near floor level, a physically demanding job. After seeing a demonstration utilizing a manual pallet level loader it was quickly realized that this equipment was needed. Twelve units are in service at various assembly, inspection and packing stations throughout the plant.

The Solution:

The level loader consists of a rugged, tubular steel frame incorporating heavy duty springs. The springs are calibrated to keep specific pallet loads at heights most convenient for loading and unloading. As loads are added or removed, the unit automatically lowers or rises to maintain the desired height. It is also designed with a manual turntable platform that rotates to provide near-side loading or unloading – a feature that minimizes stretching, reaching and the worker having to walk around the pallet. The freestanding portability is an added advantage that allows the machine to be easily moved.

Other features include completely mechanical operation (no power required) and complete freedom from maintenance. There are no motors or hydraulics to require attention. Operation is totally automatic, free of operator involvement. Studies have shown that the palletizer can cut the work required for loading and unloading pallets by as much as 75 percent and there are fewer back complaints. “The equipment has made a big difference. The workers appreciate how much easier it is to load and unload pallets. Also, although we have no hard and fast data, I’d say we’ve been able to get work done faster.”

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