



How-To Guide: Choosing the Right Level Loader for Your Plant or Warehouse

Determining that you need a palletizer is the first step; now you need to look at the options and select which model is right for your plant. Here's a quick guide to PalletPal® level loaders, available in non-powered or powered versions.

Load Type:

What are you loading onto the pallet/skid? If you are always loading the same items, on the same pallet, then your best choice is the non-powered **spring** PalletPal. When non-uniform loads are being palletized, the non-powered **pneumatic** (or **airbag**) PalletPal works well.

However, when weights, loads, pallet sizes or product dimensions vary greatly, then a powered **hydraulic** unit is recommended.

Capacity and Actuation:

How much will your load weigh? Capacities for non-powered PalletPals range from a minimum of 400 lbs. to a maximum of 4,500 lbs.

The spring PalletPal comes with springs in 3 sizes, which can easily be configured into 4 different ranges. The load is carried by the springs, not the scissor set.

The pneumatic PalletPal can lift up to 4,000 lbs with as little as 80 psi. One thing to note is that the airbag does not require constant air flow. The weight capacity can be adjusted by either adding or depleting air in the airbag. In this model, the scissors carry the load, while the airbag acts as a stabilizer.

The hydraulic PalletPal comes in either 2,000 lb. or 4,000 lb. capacities, and works on standard 115V power.

Controls:

How do I control the PalletPal? The non-powered models virtually control themselves. As items are loaded onto the pallet, the platform lowers to an ergonomic level once it reaches 400 lbs. Either a foot or pendant (hand) control

is available for the powered unit, which allows the operator to adjust the platform level to any height.

Features and Accessories:

All units come with fork pockets which makes portability quick and easy. Low friction, bearing-supported turntables are standard on all models, which allows for near-side loading and unloading. A phenolic frame cover can be specified, as well as a customized platform, if desired.



You may want to consider casters or leveling feet if the floor that the unit will rest on is uneven due to surface or grade. For the powered units, you can specify either foot or pendant controls. Foot controls allow the operator to continue loading the pallet while lowering the unit at the same time.

All PalletPal models are available with a stainless steel finish as well as other FDA approved finishes.

Optional bellows can deter workers from putting fingers/toes or objects into the scissor area. Bellows can also protect the lift from dust, debris or other environmental factors in a plant.

For more information or for assistance in specifying the right PalletPal model for your application, please contact Trans-Quip Inc. at 1-866-261-0251, on the web at www.trans-quip.com or by email to swproducts@trans-quip.com.

FEATURED APPLICATIONS

Maintaining Transit Railcars Require Jacks

The light railcar maintenance garage for Calgary Transit was searching for a method to raise transit cars for maintenance and repairs. Calgary Transit wanted to ensure that the equipment would provide a non-straining ergonomic level for their maintenance personnel.

The solution: a local machine builder designed and built eight “jacks” incorporating a Joyce/Dayton screw jack in each.

In order to elevate a railcar, four jacks are positioned on



each side of the railcar and raised separately to the desired height, allowing maintenance personnel to perform work underneath and on each side.

Each piece of equipment features a Joyce® mechanical

screw jack (model WJ810-96-KFTN). The screw jack is covered with a bellow to protect the screw from dust and debris, as well as eliminating any pinch points.

By using Joyce screw jacks, there is zero backlash when the car is in the raised position.

These jacks have been in service for well over 20 years.

JACK SPECIFICATIONS:

Model: WJ810-96-KFTN

Capacity: 10 tons Ratio: 8:1 Rise: 96”

Screw Type: Machine Screw Jacks with Bellows

Amphibious Drill Platform Features Mechanical Jacks



Calgary based Pantano Energy Services Inc. designs and manufactures amphibious drilling equipment to the oil sands industry. Their latest model is the Pantano Drill Platform—a 55-ton flotation platform. In order to provide a level work platform for employees, Pantano incorporated three Joyce® screw jacks at each corner between the tracks and the rig platform.



Using three Joyce mechanical screw jacks (model WJ3250U3N-12-STDX-STDX-X), each jack is moved independently, raising/lowering the platform to achieve the appropriate level.

By choosing mechanical actuators instead of hydraulic, the jacks can operate in frigid temperatures without failure. This is important as the drill platform is designed to be used year-round.

JACK SPECIFICATIONS:

Model: WJ3250U3N-12-STDX-STDX-X

Capacity: 50 tons Ratio: 32:1 Rise: 12”

Screw Type: Machine Screw Jack

A special thanks to Calgary Transit and Pantano Energy Services Inc. for allowing us to feature their stories.



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