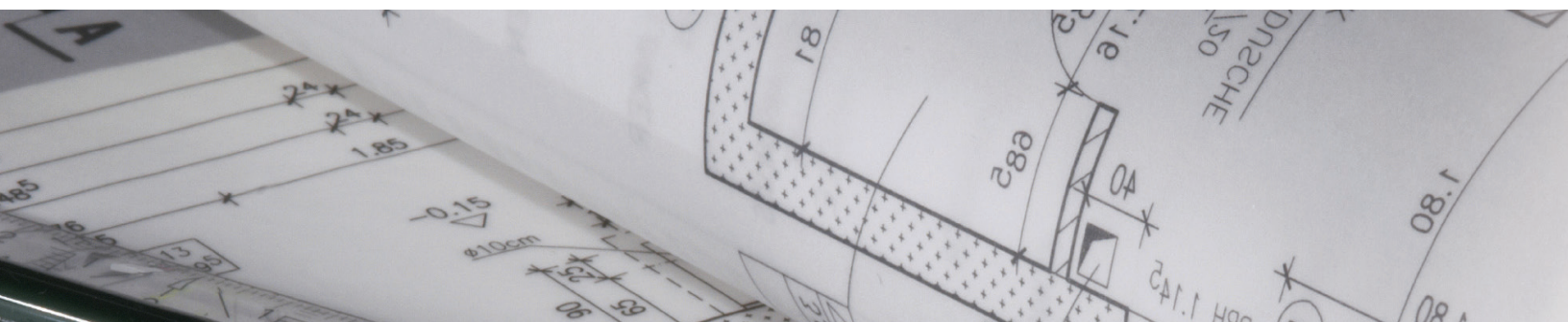




## Pentalift SolarDock™ Solar Energy Dock Leveler

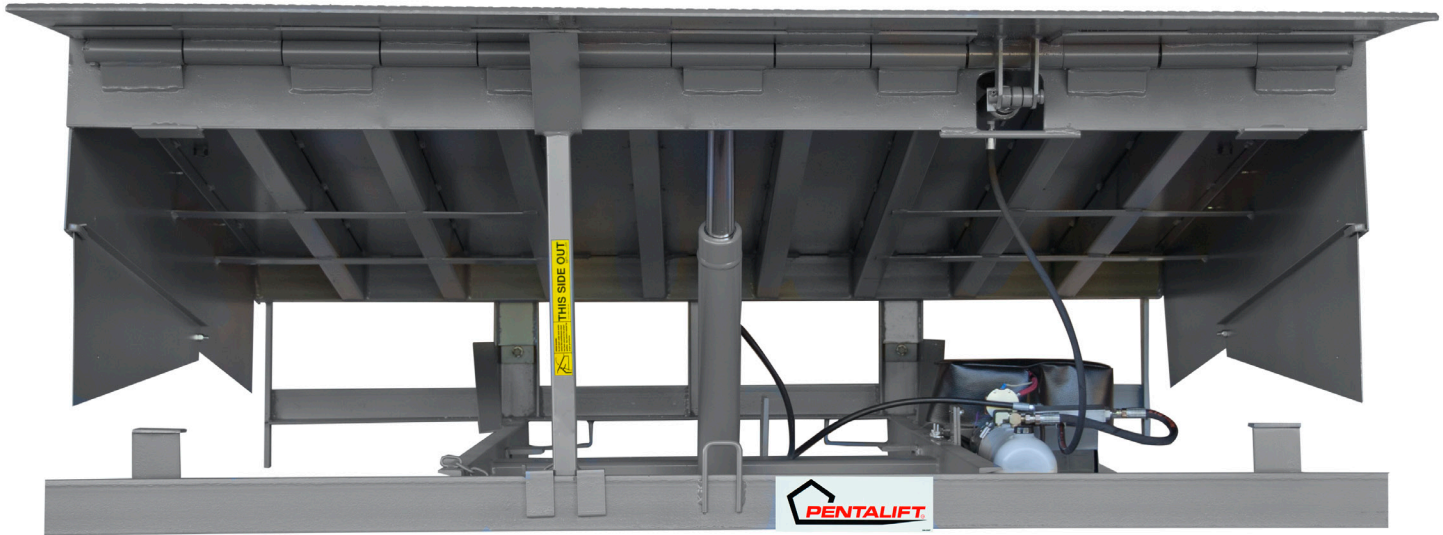
Energy efficient, affordable, environmentally "green", safety, reliability, for loading docks



Engineered for Safety!

# Pentalift SolarDock™ features

The Pentalift SolarDock™ provides all the proven benefits of hydraulic dock leveler operation with the additional benefit of utilizing solar energy as the power source. This provides unmatched energy efficiency at the loading dock yielding costs savings as well as fitting "green" profiles and directives that are being desired and mandated. The solar system acquires its power requirement from the sun. Utilizing the solar cell, the SolarDock™ eliminates expensive dedicated power supply requirements. A local 115/1/60 plug in supply is required to accommodate the low current (less than 1 amp) AC auxiliary charger, should it be required.



## Features:

- Solar energy power supply. A solar cell charges the battery. To activate the dock leveler, the accumulated power is used to operate the DC power unit. See opposing page for more details.
- Auto charging feature senses the charge status of the battery and automatically turns on the AC charger to replenish the charge in the battery, then automatically turns off the AC charger and reverts back to the solar cell charging system.
- Electrical installation cost savings. A dedicated power supply is not required. Costs associated with providing and installing the dedicated power supply are eliminated. A 115/1/60 wall plug for the auxiliary AC charger is provided. Power draw is less than one amp.
- Operated by a simple push button control.
- Fully hydraulic operation utilizes a lift and lip cylinder in conjunction with Pentalogic valve to control all of the dock leveler's operation. Hydraulic operation has proven to be the most reliable operating system for dock levelers. (See back page for more information on hydraulic dock levelers).
- Hydraulic fallsafe provides fallsafe protection which is superior to mechanical fallsafe systems and eliminates "stump-out" concerns.
- The solar energy supply and the battery allow the SolarDock™ to continue to function during power interruptions to the facilities incoming power grid.



# Pentalift SolarDock™ hydraulic dock leveler components and details

## Hydraulic power unit and battery

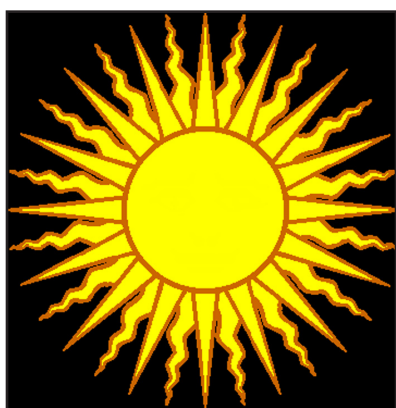


Battery cover

The DC hydraulic power unit and the battery (shown with battery cover removed) are self contained and stored under the dock leveler deck. The power unit and battery are located adjacent for simple wiring connection. A protective battery cover (shown on the right) is provided as standard. For extreme wash out or dirty conditions the hydraulic power unit and battery can be installed inside the facility.

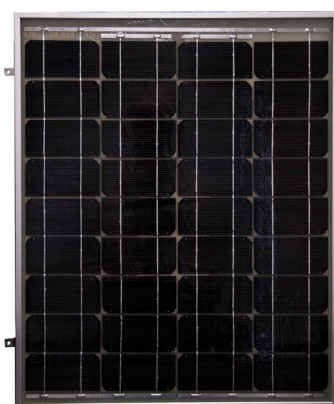
## The Sun

The energy from the sun is utilized to maintain the battery and system in an always charged state. Solar energy is renewable and it meets with almost all criteria for "green" mandates and significantly lowers energy costs.



## Solar Cell

The solar cell is installed on an exterior surface, with exposure to sunlight. The solar cell converts solar energy to electrical energy. It is wired back into the internally installed control panel with wires that are small in size and carry low voltage and amperage.



## Control Panel

The basic control panel is simple. It consists of the activation button to operate the dock leveler.

The auto charging feature senses the charge status of the battery and automatically turns on the AC charger to replenish the charge in the battery, then automatically turns off the AC charger and then reverts back to the solar cell charging system. The charger is a low amperage (less than 1 amp) 115/1/60 back up battery charger. The charger connection is provided on a standard 115/1/60 wall plug.

Pentalift designs and assembles their own control panels. Custom panels can be constructed to accommodate the interlocking of loading dock equipment such as a vehicle restraint system, overhead door, inflatable dock seal / truck shelter, and other loading dock equipment into one common control panel.



# Pentalift hydraulic dock levelers

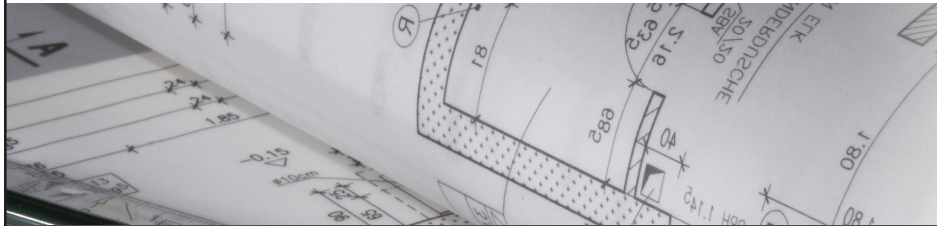


## Hydraulic Loading Dock Levelers

Conventional and Roll-Off Stop Lip



With over 25 years of experience manufacturing quality Loading Dock Equipment, Pentalift is your single-source supplier for Loading Dock Levelers, Elevating Dock Lifts, Dock Seals & Shelters, Vehicle Restraints, and much more.



## Engineered for Safety!

*"Our Primary Goal is to engineer and build the best products to ensure the ultimate in user safety and product reliability"*

**Paul Pedersen**  
**President**  
**Pentalift Equipment Corporation**

Individual Product Catalogs are available and can also be found on our website.  
Pentalift also manufactures a complete line of Lift Tables for your in plant material handling needs.

Note: Some photos may reflect products with optional features. All Pentalift Equipment Corporation products are subject to design improvement through modification without notice.

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The SolarDock™ operating system is available for all Pentalift hydraulic dock levelers. Pentalift's literature and website provides significant information on the various types of hydraulic dock leveler configurations that are available to suit a very wide range of applications. Once the appropriate dock leveler is determined the SolarDock™ system can be utilized on it.

For more information refer to the dock levelers page at the Pentalift website using the link below.

[www.pentalift.com/dock-levelers.htm](http://www.pentalift.com/dock-levelers.htm)