



PENTALOADER

SELF-LEVELING PALLET POSITIONER

MECHANICAL SPRING-CAM PALLET POSITIONER

Pentalift Pentaloader features heavy duty industrial construction and automatically maintains loads at a comfortable working height as pallet weight changes. The mechanical spring-cam design requires no electrical, hydraulic or pneumatic power, while the rotating top helps reduce bending, reaching and unnecessary walking around the pallet.

KEY BENEFITS

- ✓ Automatic self-leveling as load weight changes
- ✓ Heavy duty industrial construction
- ✓ No electrical, hydraulic or pneumatic power required
- ✓ 360 degree rotating top reduces operator movement
- ✓ Raises loads to ergonomic working heights
- ✓ Simple U-pin adjustment for different pallet weights

MAXIMUM CAPACITY

4,500 lb

VERTICAL TRAVEL

21 in.

PLATFORM SIZE

48 x 48 in.



Designed for palletizing, depalletizing, packaging, assembly, production and warehouse applications.



BUILT FOR SAFER PALLETIZING

**INTERNALLY SPRING POWERED.
NO EXTERNAL POWER SOURCE REQUIRED.**



WHY CHOOSE PENTALOADER?

- Automatically maintains the top layer at a comfortable working height as load weight changes
- Heavy duty industrial construction for demanding applications
- 360 degree rotating top reduces walking, reaching and awkward positioning
- Automatic height adjustment does not require an external power source
- Standard corner locators support consistent pallet positioning

TYPICAL APPLICATIONS

- Palletizing and depalletizing
- Production line feeding
- Assembly and packaging cells
- Order picking and kitting areas
- Warehouse, manufacturing and distribution operations

POWER-FREE & LOW MAINTENANCE

- Mechanical spring system operates without an external power source
- Lubricated-for-life bearings at pivot points
- Simple installation and easier relocation than powered equipment

AVAILABLE OPTIONS

- Accordion safety skirting
- Rotating-top brake
- Semi-portability package
- Base- or side-mounted fork pockets
- Extended corner locator clearance from 51 to 58 in.



PALLETIZING WORKSTATION

SELF-LEVELING PERFORMANCE

Each model uses a dedicated spring set with four adjustable settings. The patented spring-cam mechanism automatically changes platform height as the load changes, helping keep the top layer in the operator working zone.

360 DEGREE ACCESS

Manual rotation brings all sides of the pallet to the operator.

NO EXTERNAL POWER

Automatic height adjustment does not require an external power source.



THE SMARTER WAY TO PALLETIZE

KEEP THE LOAD IN THE WORKING ZONE

THE CHALLENGE

Manual pallet handling can drive repeated bending, reaching and walking around the load.

- Changing pallet height can pull work below the ideal zone
- Repeated bending and reaching increases fatigue and strain
- More movement may be needed to access all sides



REPEATED BENDING & REACHING

THE RESULT

When the working height is not controlled, handling can become slower and more demanding.

- More bending and reaching through the palletizing cycle
- More time spent repositioning around the load
- Fatigue can build through repeated handling cycles

THE SOLUTION

Pentaloader - the smarter way to palletize

Automatic height adjustment keeps the load in a practical working zone.

- 360 degree access
- No external power required
- Heavy duty industrial construction



SPRING ADJUSTMENT - FOUR SETTINGS FOR EACH MODEL



QUICK U-PIN / TENSION CLIP ADJUSTMENT

Each Pentaloader model uses a dedicated spring package. Four settings change the load required to lower the table. Use Page 4 to match the correct model and setting to the pallet weight range.

1 No clips - default

2 Clip B

3 Clips A + C

4 Clips A + B + C



MODEL REFERENCE & DIMENSIONS

SPECIFICATIONS, SPRING SETTINGS & OPTIONS

MODEL REFERENCE GUIDE - STANDARD SPECIFICATIONS

Models	Max Load	Low Ht.	Travel	Raised Ht.	Platform	Frame	Approx. Ship Wt.
XPL1 / XPL2 / PL1 / PL2	4,500 lb	9 in.	21 in.	30 in.	48 x 48	37 x 48	1,100 lb

Model selection is determined by the spring package / pallet load range. See the Spring Selection Guide below.

2-D DIMENSIONAL REFERENCE

Pentaloader specifications

Pentaloader models

Lowered Height = 9 inches
Full Travel = 21 inches
Raised Height = 30 inches

CORNER LOCATOR REFERENCE

- Standard platform: 48 x 48 in.
- Standard corner locators: 50 x 50 in. inside square
- Optional locator clearance: 51 to 58 in. between corner locators
- Extended locators mount to existing corners and do not change platform size

MECHANICAL OPTIONS

Semi-portability package | turntable brake | base- or side-mounted fork pockets | accordion safety skirt

PENTALOADER SPRING SELECTION GUIDE

Model	Min. Wt. to Initiate Lowering	Setting 1	Setting 2	Setting 3	Setting 4	Increment / Setting
XPL1	175 lbs	600 lbs	850 lbs	1,100 lbs	1,350 lbs	250 lbs
XPL2	175 lbs	600 lbs	1,125 lbs	1,650 lbs	2,175 lbs	525 lbs
PL1	350 lbs	1,400 lbs	1,775 lbs	2,150 lbs	2,525 lbs	375 lbs
PL2	350 lbs	1,400 lbs	2,300 lbs	3,200 lbs	4,100 lbs	900 lbs

SETTING 1 All tension clips removed (default).

SETTING 2 Only Clip 'B' inserted.

SETTING 3 Only Clips 'A' + 'C' inserted.

SETTING 4 Clips 'A' + 'B' + 'C' inserted.



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