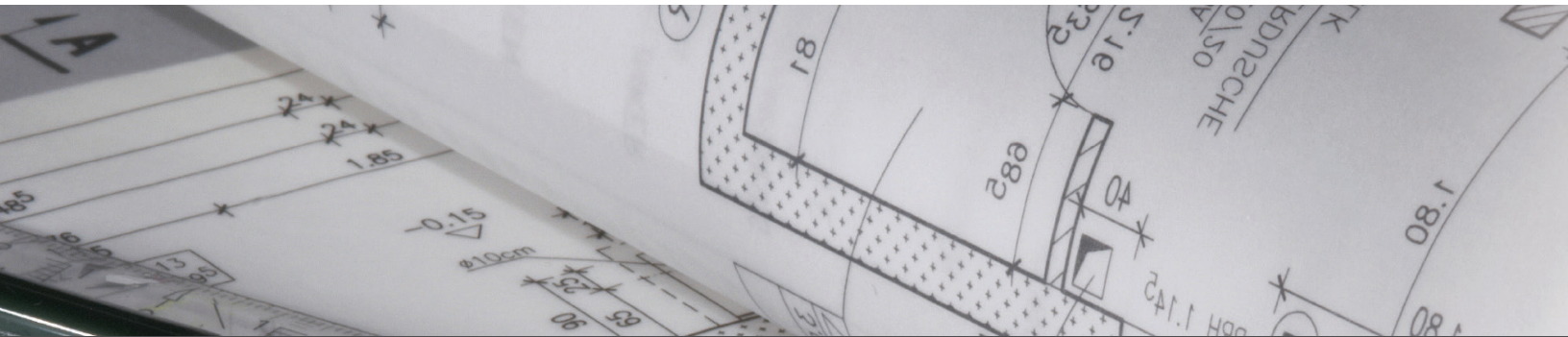




# Pentalift Pro-Series Lift Tables

Economical and ergonomic lift, rotate and tilt solutions



Engineered for Safety

# Pentalift Pro-Series lift, rotate and tilt tables

Pentalift equipment corporation, the recognized industry leader in the manufacturing of positioning solutions, manufactures the Pro-Series line of lift, rotate and tilt tables. Pentalift Pro-Series lift, rotate and tilt tables are a streamlined range of tables available for quick delivery. They create a safe, efficient workplace that increases productivity and reduces the potential of cumulative trauma disorders. Cumulative trauma disorders result when employees perform repetitive motions or work in awkward positions for extended periods of time. They are the leading occupational hazard for workers. Cumulative trauma disorders lead to increased medical and workers' compensation costs, high absenteeism and low employee morale. Using Pentalift Pro-Series lift, rotate and tilt tables in the workplace immediately increases safety, productivity and employee morale while preventing costly injuries. Pentalift manufactures the highest quality equipment in the industry. A warranty is the reflection of a company's confidence in a product and their commitment to customer satisfaction; compare our extensive warranty, design and construction features with others and you will discover another reason why Pentalift is your best choice. To immediately gain the benefits of a Pentalift ergonomic solution, simply provide the maximum weight, the physical size of the product to be handled and your product positioning requirements.



Adjustable height Pro-Series lift tables fit a multitude of applications. They increase the overall efficiency and safety of the work station by maintaining an appropriate height in relation to the operator and the process. Awkward repetitive bending and stretching motions that cause cumulative trauma disorders are eliminated.



# Pro-Series lift table incorporating a manual rotating top

Having both lifting and rotating features at a palletizing station enhances efficiency, safety and worker morale. Product positioning eliminates repetitive bending, stretching and worker maneuvering actions which lead to fatigue and injury.



# Pro-Series lift table incorporating a platform-mounted tilt table

Product is lifted and tilted into the most advantageous ergonomic position. A wide range of positioning capabilities eliminates bending, stretching or reaching to load/unload product.



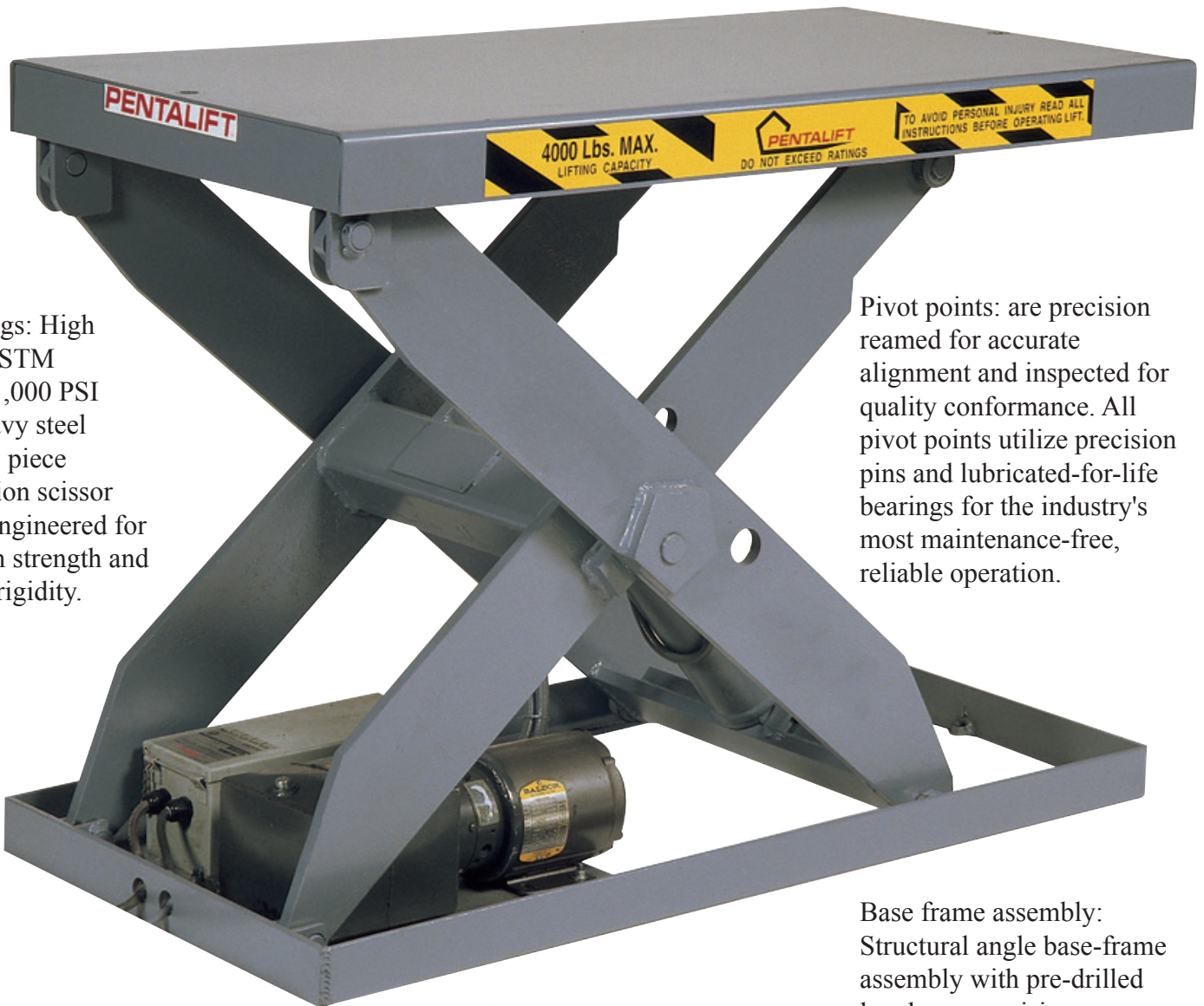
Pro-Series tilt table installed on a structural floor stand assembly.

# Pentalift Pro-Series Lift Table Construction Features

## Design Continuity

Pentalift Pro-Series lift tables are engineered with "component compatibility" logic. Each component is designed and utilized in relation to all other components and how they work together to increase the tables' performance. The end result is the most reliable and superior lift table available in the industry.

Platform assembly: High tensile steel, formed platform with rounded edges is supported by heavy-duty structural beam sections. Beams are positioned to provide superior strength and load distribution.



Scissor legs: High tensile, ASTM A572, 50,000 PSI yield, heavy steel plate, one piece construction scissor legs are engineered for maximum strength and platform rigidity.

Pivot points: are precision reamed for accurate alignment and inspected for quality conformance. All pivot points utilize precision pins and lubricated-for-life bearings for the industry's most maintenance-free, reliable operation.

Base frame assembly: Structural angle base-frame assembly with pre-drilled lag down provisions provides rigid support and allows simple and safe installation.

Shipped complete: Finished product, power unit, controls (standard push button control shown to right) and all other components are factory load tested and shipped fully assembled, complete with hydraulic fluid.




# Pentalift Pro-Series lift table model and sizing selection chart

Model No	Capacity (lb)	Low Height (in)	Vertical Travel (in)	Raised Height (in)	Platform size (in)		Frame Size W X L (in)	Lift Time (sec) approx	No of Cyl	Ship Weight (lb)
					W X L (in) Std	W X L (in) Max				
7P242.5		7	24	31	24 x 36	48 x 60	24 x 36	11	1	510
7P362.5	2,500	7	36	43	24 x 48	48 x 72	24 x 48	19	1	620
7P482.5		7-1/2	48	55-1/2	24 x 64	48 x 88	24 x 64	24	1	830
7P244		7	24	31	24 x 36	48 x 60	24 x 36	14	1	520
7P364	4,000	7	36	43	24 x 48	48 x 72	24 x 48	24	1	630
7P484		7-1/2	48	55-1/2	24 x 64	48 x 88	24 x 64	31	1	840
7P246		7	24	31	24 x 36	48 x 60	24 x 36	28	2	550
7P366	6,000	7	36	43	24 x 48	48 x 72	24 x 48	49	2	660
7P486		7-1/2	48	55-1/2	24 x 64	48 x 88	24 x 64	61	2	870

Included in base units: self-contained hydraulic power unit 1- 1/2 Hp 208-230-460-575/3/60 c/w TENV motor, pre-wired NEMA 12 motor controls, PentaFLOW bypass cylinder(s), pre-wired NEMA 12 push button on 10 ft of straight cord, reservoir filled with oil, lagging brackets on frame. All Pro-Series lift tables are to be fastened to floor. **If these models and sizes do not fit your specific needs, contact a Pentalift Sales Representative for information about our application designed equipment.**

### Exclusive Pentalift

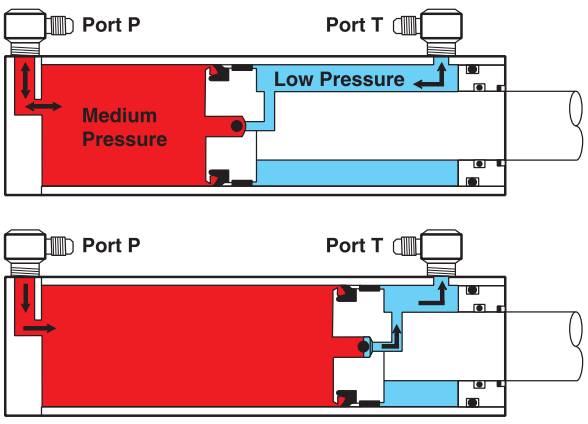


**PentaFLOW**  
Hydraulic Cylinder

The lift cylinder is the heart on any hydraulic lift system, Pentalift's exclusive design ensures the longest cylinder life, reduces maintenance and eliminates oil spills.

**Here's How it works:**  
Pentalift's PentaFLOW cylinder is completely sealed from the surrounding atmosphere and all components are continuously bathed in fresh oil. Contamination and deterioration of the cylinder cannot occur. When the cylinder reaches full extension, the bypass valve opens and allows oil to flow through the piston to the rod side of the cylinder, out the port, and back to the reservoir. This prevents the cylinder from dead ending and building high stresses in the cylinder, equipment structure and hydraulic system. Air in the cylinder is automatically removed through the bypass valve eliminating the need for manual bleeding which often results in oil spills and contamination.

Note: Precision turned, ground, polished and chrome plated cylinder rod and "drawn over mandrel" precision honed barrels are standard on all PentaFLOW cylinders.



■ Oil under medium pressure    Port P (oil from Pump)  
■ Oil under low pressure        Port T (oil to Reservoir)

## Pentalift Pro-Series lift tables options



**Toe sensor:** Positioned around the bottom perimeter of the platform, electrically interlocked contact sensor bars instantly stop the downward platform movement if any objects are contacted in the lowering path.



**Accordion bellows:** Steel reinforced, pleated yellow vinyl barrier minimizes the entry of debris under the lift table.



**Semi-portable:** (Table not to be moved when loaded.) Frame mounted rollers and removable dolly handle allow easy lift table movement to various work stations and more thorough work station clean-up. Semi-portable design configuration does not allow side/end edge loading and is to be used with evenly distributed loads only.

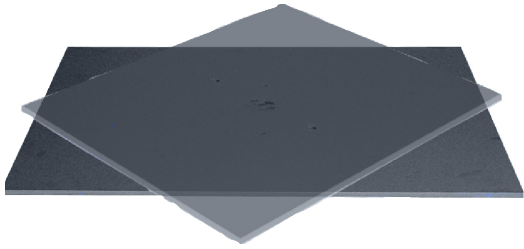
Other options (not shown with photo)	
• Non standard platforms	• Up / down travel limit switches
• Hydraulic velocity fuse	• Bevel toe guards for pit mounting
• Larger power units for increased lift speeds	• Remote power units
• Pneumatic power units	• Single phase power units

### Guarded foot pedal control:

Guarded foot pedal control station, designed to free operator's hands.



## Pentalift Pro-Series manual rotating top



Ergonomic solution which smoothly and safely rotates the work to the worker. Ideal solution to eliminate reaching or unnecessary operator movements during palletizing, depalletizing, work station assembly or manufacturing operations. Unlike other manufacturers' designs, Pentalift Pro-Series manual rotating tops incorporate a countersunk central cap screw to ensure the top platform cannot be accidentally lifted, removed or misaligned during load positioning or removal.



### Available options (not shown)

- Manually operated platform stop. Metal shaft locks rotating top at 90° increments.
- Spring activated detent stops clw spring loaded ball transfer. Automatically engages every 90° to stop rotation of platform.
- Spring loaded rotator lock. A positive spring and lever style detent will lock every 90°.

Shown with optional Accordion Bellows.

Heavy duty central thrust bearing and a minimum of 8 roller bearings ensure quiet and low effort operation.

A countersunk central cap screw to ensure the top platform cannot be accidentally lifted, removed or misaligned during load positioning or removal.

Note: Manual rotating top to be fastened to stable surface through four mounting holes supplied in the base plate.

### Pentalift Pro-Series manual rotating top model and sizing

#### Guidelines for selecting Pro-Series manual rotating tops for Pro-Series lift tables:

- Manual rotating tops can be installed on standard Pro-Series lift table platform sizes.
- Pro-Series manual rotating tops shall be installed on Pro-Series lift tables by Pentalift.
- All manual rotating tops designed to work with evenly distributed loads (center of gravity of load within 10" of deck center).
- When specifying a manual rotating top for installation on a Pro-Series lift table, reduce the Pro-Series lift table capacity by 500 lb to account for the weight of the manual rotating top.

Model No	Capacity (lb)	Low Height (in)	Platform Size W X L (in)			Frame Size W X L (in)	Ship Weight (lb)
			Min	Std	Max		
RP3625		2- 7/16	36 x 36	36 x 36	41 x 41	31 x 31	187
RP4225	2,500	2- 7/16	36 x 42	42 x 42	47 x 47	31 x 31	262
RP4825		2- 7/16	36 x 48	48 x 48	48 x 48	31 x 31	387
RP3640		2- 7/16	36 x 36	36 x 36	41 x 41	31 x 31	212
RP4240	4,000	2- 7/16	36 x 42	42 x 42	47 x 47	31 x 31	287
RP4840		2- 7/16	36 x 48	48 x 48	48 x 48	31 x 31	362
RP3660		2- 7/16	36 x 36	36 x 36	41 x 41	31 x 31	237
RP4260	6,000	2- 7/16	36 x 42	42 x 42	47 x 47	31 x 31	312
RP4860		2- 7/16	36 x 48	48 x 48	48 x 48	31 x 31	387

Included in base units: 2-7/16" overall height, 360° dual-direction rotating steel platform, minimum of 8 roller bearings ensure quiet and low-effort operation. Center pivot consists of heavy duty thrust roller bearing and countersunk cap screw to hold top platform down, preventing accidental lifting and removal of platform during load positioning or removal.

**If these models and sizes do not fit your needs, contact a Pentalift sales representative for information about our application designed equipment (highlighted on back page).**

# Pentalift Pro-Series tilt table

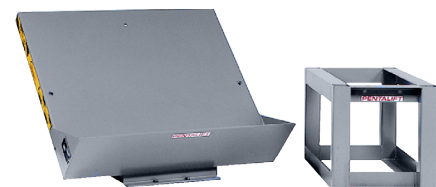


Pentalift Pro-Series lift table with Pro-Series tilt table installed. Pro-Series tilt table pivots on rolling end of Pro-Series lift table platform for maximum safety and stability.

Ergonomic design positions components within easy reach of the operator. By eliminating repetitive bending and reaching, cumulative trauma disorders are reduced and production efficiency is immediately increased. Tilt up to 6,000 lbs with ease, efficiency and safety.

## Pentalift Pro-Series tilt table top models and sizing

Model No	Capacity (lb)	Tilt Angle (Deg)	Low Height (in)	Platform Size W X L (in)			Frame Size W X L (in)	Tilt Time (sec) Approx	Ship Weight (lb)
				Min	Std	Max			
PT302544	2,500	30°	7	30 x 44	44 x 44	48 x 48	24 x 44	9	520
PT302550		30°	7	30 x 48	50 x 50	50 x 54	24 x 44	9	620
PT452544		45°	7	30 x 44	44 x 44	48 x 48	24 x 44	14	545
PT452550		45°	7	30 x 48	50 x 50	50 x 54	24 x 44	14	645
PT304044	4,000	30°	7	30 x 44	44 x 44	48 x 48	24 x 44	9	545
PT304050		30°	7	30 x 48	50 x 50	50 x 54	24 x 44	9	645
PT454044		45°	7	30 x 44	44 x 44	48 x 48	24 x 44	14	570
PT454050		45°	7	30 x 48	50 x 50	50 x 54	24 x 44	14	670
PT306044	6,000	30°	7	30 x 44	44 x 44	48 x 48	24 x 44	12	570
PT306050		30°	7	30 x 48	50 x 50	50 x 54	24 x 44	12	670
PT456044		45°	7	30 x 44	44 x 44	48 x 48	24 x 44	18	595
PT456050		45°	7	30 x 48	50 x 50	50 x 54	24 x 44	18	695



Pro-Series Tilt Table with structural floor stand.

Included in base units: 7" low height, 1-1/2 Hp 208-230-460-575/3/60 clw TENV motor, self-contained under table, pre-wired NEMA 12 motor controls, PentaFLOW bypass cylinder, pre-wired NEMA 12 push button on 10 ft of straight cord, reservoir filled with oil, lag holes on frame, 12" high backstop.

If these models and sizes do not fit your needs, contact a Pentalift sales representative for information about our application designed equipment (highlighted on back page).

Note: Pro-Series tilt tables and Pro-Series lift tables with Pro-Series tilt tables installed are to be fastened to the floor for maximum safety and stability.

Guidelines for installing Pro-Series tilt tables on Pro-Series lift tables:

- Pro-Series tilt tables shall be installed on Pro-Series lift tables by Pentalift.
- Pro-Series tilt table can be installed on standard Pro-Series lift table platform sizes, Pro-Series tilt table platform width not to exceed 50 inches.
- When installed on a Pro-Series lift table, the Pro-Series tilt table's power supply cord will be routed to the base of the Pro-Series lift table by Pentalift.
- Capacity of the Pro-Series lift table must be equal to or greater than the Pro-Series tilt table capacity plus the weight of Pro-Series tilt table.
- When tilting, consideration must be given to the load being tilted. Unusual loads with unfavorable centers of gravity when tilting could create a safety hazard.

### Available options (not shown)

- Non-standard platforms.
- Special height backstops.
- Larger power units for faster tilt speeds.
- Remote power units.
- Pneumatic power units.
- Guarded foot pedal control.
- Hydraulic velocity fuse.
- Accordion bellows.
- (See descriptions on Page 5)

# An ergonomic solution for every application



In addition to the Pro-Series line of lift, rotate and tilt tables featured in this brochure Pentalift Equipment Corporation offers positioning solutions to suit unique applications. Contact a Pentalift sales representative for details. To view our special positioning equipment capabilities use this internet link [www.pentalift.com/lift-tables/lift-tables.php](http://www.pentalift.com/lift-tables/lift-tables.php)

*"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 loading dock equipment.

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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