


# All Pentalift Elevating Docks Benefit From Our Tradition Of Quality, Performance And Reliability



**Plated Access Chain**  
Plated access chain to prevent the operator from accidentally stepping off the deck.

**Removable Guardrails**  
In accordance to OSHA standards, 42" high, with midrails and kickplates.

**Hinged Lip**  
Steel checker plate lip with full width lip hinge. (split or one piece aluminum lips are available)

**Deck**  
Constructed of checker deck with structural deck supports for maximized load distribution and support.

**Heavy Gauge Steel**  
All Pentalift Elevating Docks are constructed with heavy-duty structural steel components to provide rugged industrial service and a long service life.

**Heavy-Duty Torque Tubes**  
Torque tubes are constructed from high tensile, structural tubing designed to minimize twisting and deflection, giving a high degree of rigidity and stability.

**Scissor Legs**  
Solid steel, one-piece construction with holes precision reamed for accurate alignment then inspected for absolute conformance to design specifications. Scissor leg center pins are chrome plated.

**Hydraulic Junction Block**  
Hydraulic hoses are connected to a frame-mounted junction block to minimize hose movement, preventing wear and abrasion.

**Lubricated For Life Bearings**  
All pivot points have precision made pins that operate in "lubricated for life", maintenance-free bearings.

**Structural Base Frame**  
Constructed from high yield, structural angle to provide a rigid support base for the lift. The flange of the base angle minimizes potential for obstructions to enter into the path of the leg rollers.

**Dual Lower Rollers**  
Dual rollers allow better weight distribution and increased roller and bearing life. All rollers are tracked for maximized stability.

**PentaFLOW Hydraulic Cylinders\***  
Exclusive PentaFLOW bypass cylinders. Hydraulic velocity fuse is standard.

## Shipped Complete

Finished product, power unit, controls and all other components are factory load-tested and shipped fully assembled.



**Control by a NEMA 4X hand-held push-button control station.**  
(Optional deck-mounted and key lock-out features are available.)

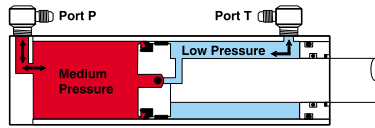
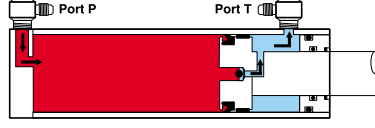
**EXCLUSIVE PENTALIFT**

**PentaFLOW**

**HYDRAULIC CYLINDER**

The lift cylinder is the heart of 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 ejected through the bypass valve eliminating the need for manual bleeding which often results in oil spills. 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

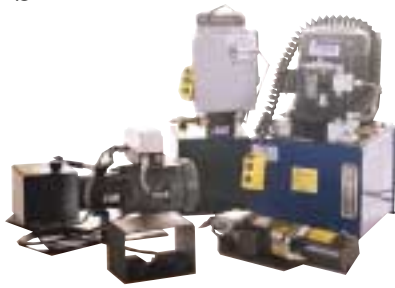
■ Oil under low pressure

Port P (Oil from pump)

Port T (Oil to reservoir)

\* PentaFLOW hydraulic cylinders eliminate the potential of internal contamination from the outside environment ensuring equipment longevity in the most demanding applications.

# Options



## Electro-Hydraulic Power Unit

Remote mounted power unit with integral oil reservoir. Totally enclosed, continuous duty motor incorporates a NEMA 12 pre-wired control enclosure. Motor starter, transformer and overload protection are standard on all three-phase power units. The power unit is completely assembled, filled with oil and factory tested prior to shipment. (Hydraulic fluid is mineral based oil).

## Controls



Fixed or removable, deck-mounted push-button controls for greater operator convenience.

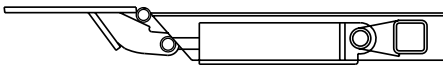
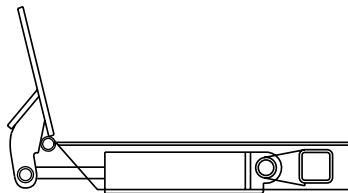
## Safety Trip Bars



Electrically interlocked safety trip bars provide additional safety for pit installations.

## Automatic Hydraulic Roll-Off Stop

ROLL OFF STOP  
UP POSITION



ROLL OFF STOP  
DOWN POSITION

Optional roll-off stop automatically raises when the lift is activated to prevent the operator from accidentally rolling off the deck. When in the fully lowered position, the roll-off stop will lie flush with the surface level.

## Other Options

- split lips
- aluminum lips
- hydraulic lips
- lip lift assist spring
- up travel limit switch
- coil cord for push-button control
- additional control stations
- wall bracket for power unit

# Model Selection Chart\*

MODEL NUMBER**	DECK SIZE (wide x long)	VERTICAL TRAVEL (inches)	CAPACITY RANGE (lb) (see note #1)	LOW HEIGHT (in) (see note #2)
HED 47_	48 in x 84 in	50"	3,000-20,000 lb	12"
HED 48_	48 in x 96 in	59"	3,000-20,000 lb	12"
HED 49_	48 in x 108 in	59"	3,000-20,000 lb	12"
HED 410_	48 in x 120 in	59"	3,000-20,000 lb	12"
HED 57_	60 in x 84 in	50"	3,000-25,000 lb	12"
HED 58_	60 in x 96 in	59"	3,000-25,000 lb	12"
HED 59_	60 in x 108 in	59"	3,000-25,000 lb	12"
HED 510_	60 in x 120 in	59"	3,000-25,000 lb	12"
HED 68_	72 in x 96 in	59"	3,000-25,000 lb	12"
HED 69_	72 in x 108 in	59"	3,000-25,000 lb	12"
HED 610_	72 in x 120 in	59"	3,000-25,000 lb	12"
HED 612_	72 in x 144 in	59"	3,000-25,000 lb	12"
HED 78_	84 in x 96 in	59"	3,000-25,000 lb	12"
HED 79_	84 in x 108 in	59"	3,000-25,000 lb	12"
HED 710_	84 in x 120 in	59"	3,000-25,000 lb	12"
HED 712_	84 in x 144 in	59"	3,000-25,000 lb	12"
HED 88_	96 in x 96 in	59"	3,000-25,000 lb	12"
HED 89_	96 in x 108 in	59"	3,000-25,000 lb	12"
HED 810_	96 in x 120 in	59"	3,000-25,000 lb	12"
HED 812_	96 in x 144 in	59"	3,000-25,000 lb	12"

\*\*Model Number: Example - Model **HED61215** is derived by taking **HED612\_** [HED = hydraulic elevating dock, 612 = width (in feet) & length (in feet) plus the capacity in 1,000's lb for the \_ (ex. 15 for 15,000 lb). Side and end load capacities are lower than rated capacity. Consult the factory for this information on a specific model basis.

**Note #1** - Units available in the following capacities: 3,000, 4,000, 5,000, 6,000, 8,000, 10,000, 12,000, 15,000 and 20,000 lb. Larger platform elevating docks available with rated capacity of 25,000 lb.

**Note #2** - A 20,000 capacity elevating dock has a low height of 20". For 25,000 lb and greater consult the factory.

\* Other deck sizes and higher capacities available. Consult the factory.

## Technical Specifications

Hydraulic Elevating Dock Model No. HED \_\_\_\_\_ as manufactured by Pentalift Equipment Corporation. Elevating dock to have a deck size of \_\_\_\_\_" wide x \_\_\_\_\_" long, built of checker plate with 8" bevel toe guards. The unit shall have a lifting capacity of \_\_\_\_\_ lb, vertical travel of \_\_\_\_\_" and a lowered height of \_\_\_\_\_". An 18" long x 60" wide one-piece steel checker plate lip is to be provided on the rolling end. Hydraulic lift cylinders shall be PentaFLOW style equipped with an automatic bypass system at the top of cylinder stroke. A velocity fuse shall be incorporated to prevent deck free-fall in the event a hydraulic hose is accidentally severed. Scissor legs shall be of solid steel construction for maximum strength and rigidity. Scissor legs shall be equipped with dual lower rollers as well as upper and lower roller retainers. All pivot points to have chromed pins and "lubricated for life" bearings. Unit to have two removable guardrails 42" high x \_\_\_\_\_" long with midrails and 4" high kickplates. An integral, swing away maintenance stand shall be provided for safety during servicing. Controls shall be a NEMA 4X hand-held push-button. The power unit is to be remote mounted and consist of a TEFC continuous duty motor with integral hydraulic fluid reservoir. The motor shall be equipped with a NEMA 12 pre-wired control enclosure. The elevating dock shall be shipped complete with hydraulic fluid.