

# ELEVATING DOCK SCISSOR LIFTS



McGrath Industries' Elevating Docks are hydraulically actuated scissor lift mechanisms that facilitate the efficient passage of freight between warehouse floor level and truck deck. Elevating Docks can operate over a very large height range compared to dock bank mounted Dock Levellers. And because the deck remains level, they are well suited to manual pallet trolley operations where negotiating an incline could be difficult. A level deck is also beneficial if accessing enclosed trucks with low overhead clearance and if the freight is typically delicate or should be kept level.

Elevating Docks can provide a truck interface where a building has no dock bank at all. The scissor lift may be mounted into a recessed pit in the floor slab or dock bank. When parked, the scissor lift's deck sits flat, flush with the floor, allowing for unobstructed cross traffic.

The Elevating Dock is raised and lowered by electro-hydraulic action. A standard feature is the "Load Lip" attached to the front of the hoist that bridges the gap to the truck deck. The lip may be manual engaged or power operated. Other optional accessories include truck buffers, handrails, gates and control features.





## POPULAR MODELS

Product Code	Maximum Load Capacity	Deck Area Length x Width	Maximum Range of Travel	Minimum Pit Depth	Height Overall
1.0-2.0/0.9-1.1	1.0 tonne	2.0m x 0.9m	1.1m	400mm	1500mm
1.0-3.0/2.2-1.5	1.0 tonnes	3.0m x 2.2m	1.5m	400mm	1900mm
1.5-2.0/1.5-1.0	1.5 tonnes	2.0m x 1.5m	1.0m	350mm	1350mm
1.5-2.4/2.0-1.5	1.5 tonnes	2.4m x 2.0m	1.5m	350mm	1850mm
2.0-1.6/1.2-1.0	2.0 tonnes	1.6m x 1.2m	1.0m	350mm	1350mm
2.0-2.2/1.2-1.2	2.0 tonnes	2.2m x 1.2m	1.2m	350mm	1550mm
2.0-2.4/1.8-1.5	2.0 tonnes	2.4m x 1.8m	1.5m	350mm	1850mm
2.0-2.5/2.1-1.5	2.0 tonnes	2.5m x 2.1m	1.5m	400mm	1900mm
2.0-2.6/2.1-1.5	2.0 tonnes	2.6m x 2.1m	1.5m	400mm	1900mm
2.0-3.0/2.1-1.7	2.0 tonnes	3.0m x 2.1m	1.7m	350mm	2250mm
2.5-2.4/2.4-1.5	2.5 tonnes	2.4m x 2.4m	1.5m	350mm	1850mm
2.5-2.5/2.5-1.2	2.5 tonnes	2.5m x 2.5m	1.2m	350mm	1550mm
3.0-2.5/2.5-1.5	3.0 tonnes	2.5m x 2.5m	1.5m	400mm	1900mm
4.0-3.5/1.5-1.8	4.0 tonnes	3.0m x 2.4m	1.8m	530mm	2330mm
5.0-3.0/2.4-1.5	5.0 tonnes	3.0m x 2.4m	1.5m	520mm	2020mm
7.0-3.9/3.0-1.5	7.0 tonnes	3.9m x 3.0m	1.5m	520mm	2020mm
7.0-4.2/3.0-1.5	7.0 tonnes	4.2m x 3.0m	1.5m	575mm	2075mm

In addition to the models above, McGrath Industries can design and manufacture an Elevating Dock Scissor Lift to meet your specific load capacity, deck size and travel distance requirements. Pit specification drawings are available on request. The drawings include site electrical requirements. When requesting a pit drawing, please advise:

- The Product Code above or the required capacity, deck dimensions and range of travel.
- How the scissor lift will be mounted:
  - Will it be installed into the floor slab? Include:
    - The truck position relative to the deck.
    - The sides at floor level the deck is accessible from for freight transfer
  - Or will it be installed into a raised dock bank above road level? Include:
    - The height of the internal floor above road level.
- The required *Optional Features* from the list below.

## GENERAL SPECIFICATION

### Lifting Speed:

2.4 metres per minute or as specified.

### Lowering Speed:

Generally 2.4 metres per minute. Adjustable.

### Cargo Deck Type:

Smooth reinforced flat steel surface with anti skid grit finish.

### Standard Features:

- *Manually operated Load Lip* is attached to the front edge of the Elevating Dock, and is folded down to engage on the truck deck. Facilitates stable passage of freight handling equipment across the gap.
- *Integral Hydraulic Power Plant and Console*, typically mounted adjacent to the scissor lift on the facility floor or dock bank. (See optional control positions below).
- *Maintenance Props* are fitted to allow service staff to work safely under the raised hoist.

### Optional Features:

- *Powered Load Lip*, hydraulically actuated by pushbutton control. Recommended for busy operations or larger capacity hoists that have a wide heavy lip.
- *Roller Blinds* for floor installations help prevent ingress and rubbish accumulation under the hoist.
- *Rigid Side Panels* for dock bank installations prevent foot ingress shear hazard.
- *Additional Load Lips* can be added to the non-truck interface edges to allow smooth cargo movement across the pit edges at floor level. May be applicable if utilising handling devices with small wheels, such as pallet trolleys.
- *Handrails* can be provided on non-interface edges of the Cargo Deck.
- *Boom, Swing or Chain Gates* can be included on the operational deck edges that interface with the truck and warehouse floor. Gates are usually

interlocked with the controls to ensure they are closed before the hoist is raised or lowered.

- *Access Ladder*, mounted independently on the floor, allows staff to safely climb up or down from the raised platform.
- *Handrail mounted Controls* allows staff to ride on the hoist for added convenience, if practical.
- *Wall mounted controls* allow the controls to be located in a more convenient position separate to the hydraulic power plant, if required.
- *Chequer Plate* surface on the Cargo Deck is preferred for some commercial or industrial environments.
- *Safety Bar* provides protection against foot shear trap under the lowering deck edge. The hoist automatically rises if an obstruction is encountered at the pit edge.
- *Raised Side Guides* on the Cargo Deck provide a tyre bump bar to help prevent fork-lifts from accidentally driving over the side of the hoist if the fork-lift is misaligned when reversing out of the truck.
- *Integral Cargo Weighing* allows the Elevating Dock to serve a dual purpose as a Weigh Bridge when parked at floor level.

### Standard Electrical Supply:

3 phase + Earth 50 Hz. Electrical supply should be to a point adjacent to the hoist hydraulic power plant position, (by others). Supply cable to be unterminated.

### Standard Paint Finish:

Industrial Grey with Safety Yellow Load Flips, Roller Blinds, Side Panels, Handrails and Gates if included.

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