

Heavy Duty DOCK LIFTS

- Level transfer from any dock height to any truck bed height
- Leveler can go all the way down to grade level
- No ramps or inclines
- Capacities to 20,000 lbs.

Conventional powered dock levelers are the workhorses of the dock area and have the capability of handling the majority of truck and load variations.

Where loading and unloading volume is reasonably light, however, the cost of a reinforced concrete loading dock may not be justified. In such cases the use of a dock lift allows loading and unloading from any tailgate height truck to any height door – even grade level. Even where high volume dock levelers are used, the problem of taking a lift truck down into the yard or truck area is solved by adding one dock lift. Unstable loads also often dictate against the use of ramps or inclines. In such cases, dock lifts allow for level handling.

The maximum recommended grade for power operated hand trucks is 3%; powered platform trucks 7%; electric fork trucks 10%; and gasoline fork trucks 15%. An 8' long dock leveler raised or lowered 12" produces a 12° grade. A dock lift properly positioned produces no grade.

Dock levelers, with their normal maximum range of 24", can accommodate truck bed heights in a range from 34" to 58". Dock lifts can work from grade level to a maximum height of 59". Also, a shallow dock is best served with a dock lift.



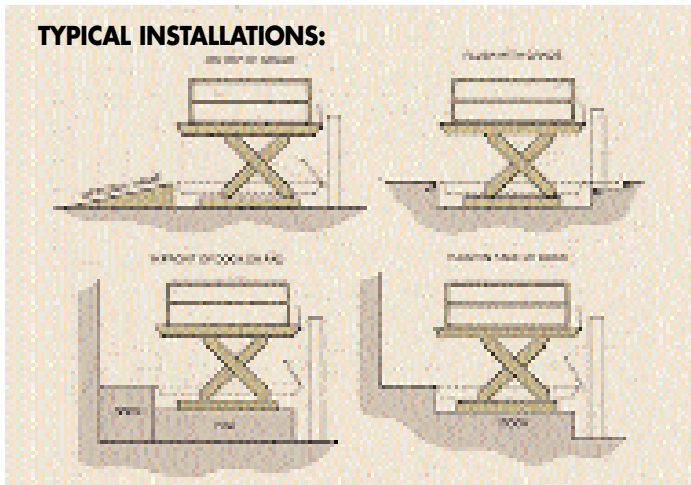
Dimensions

MODEL NO.	CAP. (LBS.)	STD PLAT SIZE (FT.)	MAX PLAT SIZE (FT.)	TRAVEL (IN.)	LOW HGT (IN.)	PLATE (IN.)	UP FPM	TIME UP (SEC.)	HP	APPROX. WT. (LBS.)
DL 5-59M	5,000	6 X 8	8 X 10	59	8	18 X 60	11	27	3.2	2,800
DL 6-59M	6,000	6 X 8	8 X 10	59	10	18 X 60	11	27	3.2	2,900
DL 8-59M	8,000	6 X 8	8 X 10	59	10	18 X 60	7	42	3.2	3,200
DL 10-59H	10,000	7 X 12	8 X 12	59	16	18 X 60	9	34	5	5,000
DL 12-59H	12,000	7 X 12	8 X 12	59	16	18 X 60	8	36	5	5,200
DL 16-59H	16,000	7 X 12	8 X 12	59	16	18 X 60	6	50	5	5,500
DL 20-59H	20,000	7 X 12	8 X 12	59	22	18 X 60	5	60	5	7,900

Standard Features

- Bevel toeguard platform with safety yellow skirts.
- Removable steel handrails 42" high with midrail, 4" kick plate, and snap chain opposite throw-over plate.
- Diamond tread deck surface.
- Hinged split diamond tread throw-over plate. Travels from 15° below horizontal to 15° beyond vertical for total swing of 120°.
- Weatherproof NEMA 3R UP/DOWN constant pressure push button on 20 ft. Koil Kord.
- NEMA 1 Linestarter-transformer for 24-volt controls.
- Hydraulic velocity fuse at cylinders.
- Standard voltage: 208/3/60, 230/3/60, or 460/3/60.
- 10,000 lb. minimum roll-over capacity on M models and equal to lift capacity on H models.
- Adjustable lowering time in pressure compensated flow control valve.
- Removable lifting eyes for ease of installation.
- COMPLETE INSTALLATION PACKAGE including:
 - 20' of Koil Kord on control.
 - Power unit reservoir filled with hydraulic oil.
 - 5' of hydraulic hose with power unit.

Installation Details



Work To Be Done By Owner's Contractor:

- Unloading equipment at time of delivery.
- All electrical work including wall disconnect switch.
- Concrete work, building modifications and excavation.
- Underground piping, conduit, angle framing to pit, embedded items, shims, lag bolts and sump drain.
- Supply hydraulic connecting hose or pipe from power unit to pit sump. See Southworth Pit Plan for details.

Typical Specification:

Manufacturer & Type: This specification covers a hydraulic dock lift as manufactured by Southworth Products of Portland, Maine. The lift shall be Southworth Model No. _____.

Capacity: The lift shall have a lifting capacity of _____ lbs. with a _____ % axle loading capacity over the hinged throw-over plate end and opposite end. Axle loading capacity over the sides shall be 50%.

Travel: The lift shall have a vertical travel of 59" from a lowered height of _____".

Speed: The lift shall have a nominal rise speed of _____ FPM.

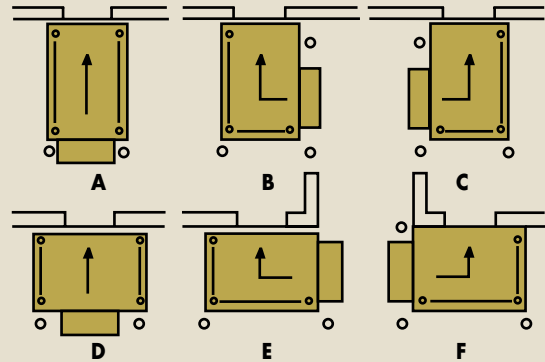
Platform: The platform size shall be _____ X _____ feet with diamond plate deck surface. Platform will incorporate bevel toeguards on four sides, painted safety yellow.

Hinged Throw-Over Plate: The platform shall be equipped with a 18" x 60" diamond tread throw-over plate on one end. The split plate shall have full length hinge.

Handrails: The platform shall be equipped with 42" high removable steel handrails on two sides with midrail and 4" kick plate. The rail sockets shall be flush with the platform surface.

TRANSFER ARRANGEMENTS:

Handrail and hinged throw-over plate locations should be indicated if other than style A.



Furnished by Southworth:

- Suitable length of hydraulic hose from cylinders to pit sump. Five foot hose is also supplied with power unit (underground hose or pipe by others).
- Pit construction plans are forwarded upon receipt of order.
- Installation and service manual forwarded with dock lift.

Power Unit: The external hydraulic power unit shall be self-contained and filled with hydraulic oil. The motor shall be _____ HP.

Control: The lift shall be equipped with a constant pressure "UP/DOWN" weatherproof push button, NEMA 3R, on 20' Koil Kord to allow operator to control lift while on the machine. Control voltage shall be 24 volts.

Cylinders: The lift shall be equipped with single acting cylinders having honed seamless tubing, chrome-plated cylinder rods, a metal wiper/scraper in the rod bearing to exclude harmful contaminants, and vent side of cylinders shall be piped back to power unit.

Hydraulic Oil: The lift shall be supplied with Texaco Rando HD-32 hydraulic oil, or equivalent. The hydraulic oil shall be a turbine quality oil with rust and oxidation inhibitors plus anti-wear properties.

Bearings: All pivot points shall have hardened steel pins which operate in long lasting self-lubricated bearings.

Quality Control: The lift shall be pretested by seller to 10% over full rated capacity.

Safety: The lift shall incorporate velocity fuses at cylinders to prevent descent from loss of hydraulic pressure. The power unit shall incorporate adjustable pressure compensated flow control to maintain uniform lowering speed.



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