

Express Elevators & Lifts

Material Lift



- Material Lift is a safe, reliable and rugged elevating device designed to carry freight along with a rider between two or more fixed levels.
- Material Lifts are versatile and an ideal solution to carry freight with a rider for industrial, commercial & institutional (ICI) buildings. Retail & wholesale warehouses of big box stores, storage facilities, carrying carts in hotels & hospitals, condominiums, parts centres of automobile dealership etc.
- Robust, high quality, value device, and an economical, cost saving alternate to a Freight Elevator.
- We provide Rider enabled Material Lifts strictly as per the North American elevator code CSA B44 and ASME A17.1, catered to suit many states, provinces & territories in North America and overseas markets.



FEATURES OF MATERIAL LIFT

- Material Lifts are energized using non-buried, environmentally friendly, side mounted hydraulic cylinder(s) design.
- Material Lifts driven by geared motor design are also available.
- Load carrying capacity ranging from 500 pounds to beyond 20,000 pounds.
- Customized design is available in various car sizes to suit the available building space
- Car finishes & door types to suit a varied spectrum of loads & goods to be carried.
- Suitable for various NEMA ambient conditions; rough, repetitive heavy usage; loading with forklift trucks or tow motors, etc.
- Design options include No Pit Design, thus eliminating the need to cut existing concrete slab.
- Solutions available for low headroom/ ceiling height.
- Lift enclosure categorized in two types:
 - * B Yo S (Bring your own shaft): A civil or general contractor construct a masonry or concrete shaft.
 - * S By E: (Shaft by Express Elevators): Along with the material lift, we also provide a Metal Shafts to enclose and support the lift. Thus, offering a Turn-Key approach. Even the hydraulic power unit is enclosed in an enclosure.

HOISTWAY SHAFT DETAILS

- Typically constructed of reinforced masonry block or cast in place concrete by others.
- Shaft to be provided with adequate structural support, hoisting beam, checkered steel sills, frames & header, rough opening for entrances, pit light with a switch and GFCI plug, fire alarm initiating devices by others.
- Optional steel shaft enclosure may be possible
- Hoistway shaft to be constructed as per elevator code, building code, by others.

MACHINE AREA DETAILS

- Machine located adjacent to the shaft at bottom level.
- Machine Room door to swing out and be self-locking and self-closing.
- Lockable, fused disconnect box, guarded light with a switch, GFCI Plug, by others.
- Machine area to be constructed as per elevator code, building code, by others.



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PRODUCT SPECIFICATIONS WITH AVAILABLE OPTIONS

Load Capacity	Ranges from 227 Kg (500 lbs) to 9,090 Kg (20,000 lbs).
Class of Loading	General Freight Loading (Class A) or Heavy concentrated Loading (Class C).
Speed	Ranges from 0.15 m/sec (30 fpm) in line with CSA B44 and ASME A17.1
Typical Car Size	As mentioned below. Please consult our sales department (sales@expresselp.com) for any custom car size.
Travel	Limited to 7,620 mm (25'—0"). Certain jurisdictions allow for travel only up to 5000 mm (16'—8"), therefore please qualify carefully.
Overhead Height	Typical 4,013 mm (158"), however depends upon the car & entrance height. Please consult our sales department (sales@expresselp.com) for other suitable requirements.
Pit Depth	Options available to suit conditions with pit depth ranging from 00 mm (0") to 2,133 mm (84").
Cab finishes	<ul style="list-style-type: none"> Steel prime finish / coated powder finish. Optional 304 St. Steel. Optional 316 St. Steel.
Entrances	<ul style="list-style-type: none"> Single panel or 2-panel horizontal swing doors in hollow metal or expanded metal finish. Optional available for vertical bi-parting, vertical Slide-up or horizontal entrances. Provided in prime/ powder coated finish. Optional #4 St. Steel entrances. Georgian wire glass vision panel on door panel. For 1.5 hour Fire Rated doors. CSA B44 & ASME A17.1 approved electro mechanical interlocking. Heavy duty plastic opaque buttons with optional key override switches on all landings. Other optional finishes may be available on request.
Operation	Constant pressure push button.
Power requirement	<ul style="list-style-type: none"> Ranging from 5HP to 50HP submersible screw motor and pump. 600/3 phase/60 HZ with option for 208 V/1 phase/60 HZ.

B Yo S (Shaft by Express Elevators): Entrances on the Front Side with Swing doors

Capacity	Car Width	Car Length	Car Height	Shaft Width	Shaft Length
Kg (lbs)	mm (inches)				
454 (1000)	914 (36)	1219 (48)	2032 (80)	1524 (60)	1524 (60)
909 (2000)	1524 (60)	1524 (60)	2032 (80)	2133 (84)	1828 (72)
1363 (3000)	1524 (60)	3048 (120)	2032 (80)	2133 (84)	3352 (132)
1818 (4000)	2133 (84)	2133 (84)	2032 (80)	2946 (116)	2438 (96)
2727 (6000)	2336 (92)	2438 (96)	2032 (80)	3200 (126)	2743 (108)
4545 (10000)	2743 (108)	3048 (120)	2032 (80)	3606(142)	3352 (132)

S by E (Shaft by Express Elevators): Entrances on the Front Side with Swing doors

Capacity	Car Width	Car Length	Car Height	Shaft Width	Shaft Length
Kg (lbs)	mm (inches)				
454 (1000)	914 (36)	1219 (48)	2032 (80)	1752 (69)	1752 (69)
909 (2000)	1524 (60)	1524 (60)	2032 (80)	2362 (93)	2047 (81)
1363 (3000)	1524 (60)	3048 (120)	2032 (80)	2362 (93)	3581 (141)
1818 (4000)	2133 (84)	2133 (84)	2032 (80)	3200 (126)	2692 (106)
2727 (6000)	2336 (92)	2438 (96)	2032 (80)	3455 (136)	2997 (118)
4545 (10,000)	2743 (108)	3048 (120)	2032 (80)	3860(152)	3606 (142)



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