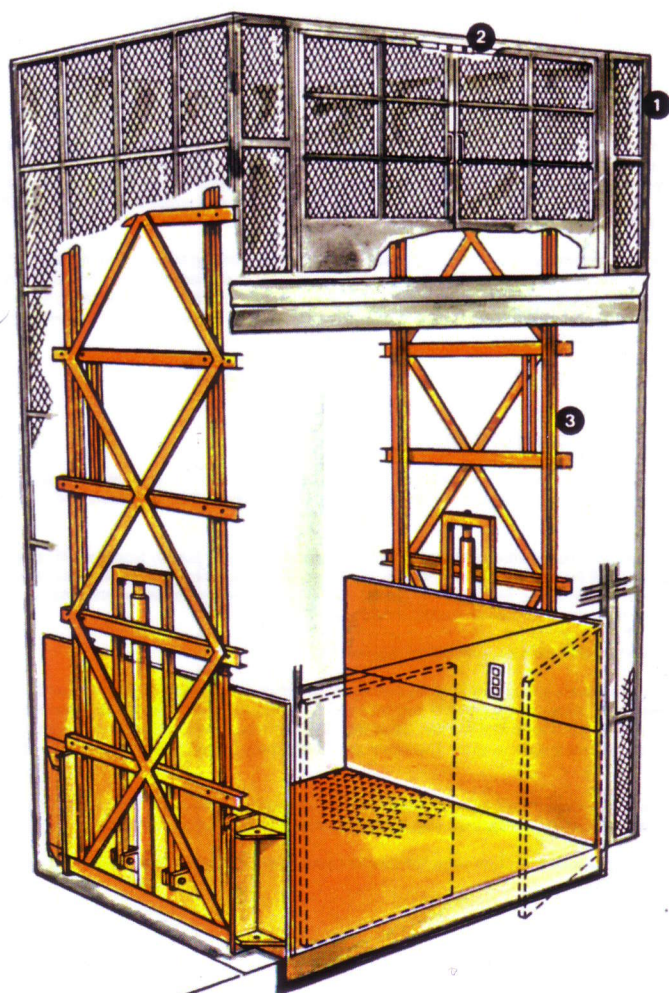


# ATLANTIC LIFTS LTD.

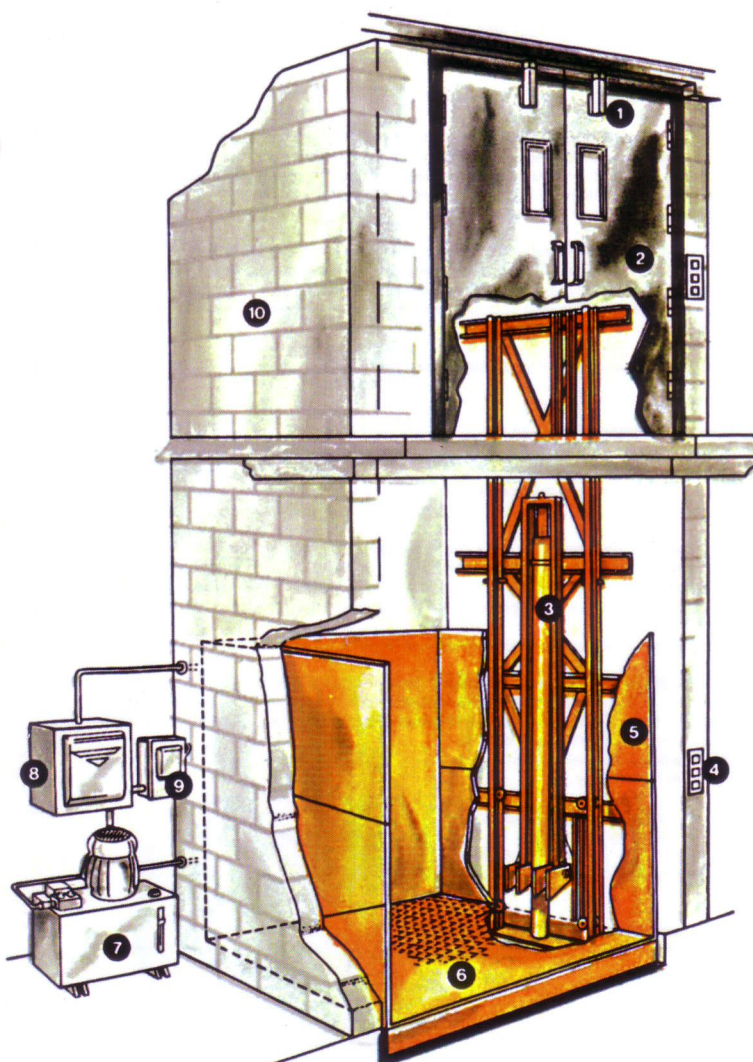
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**Material Lifts    Freight Platform Lifts    Freight Elevators    Custom Lifts**  
**Scissor Lift Tables    Parking Garage Lifts    Pitless Lifts    Automobile Display Lifts**



**MODEL DFPL**  
**FREIGHT PLATFORM LIFT/MATERIAL LIFT**

1. Structural frame and expanded metal hoistway enclosure.
2. Electro mechanic door interlock. 3. Guide rail mast.



**MODEL SFPL**  
**CANTILEVER FREIGHT PLATFORM LIFT/MATERIAL LIFT**

1. Door closer. 2. Hollow metal swing doors. 3. Hydraulic cylinder. 4. Push button station. 5. Solid metal car sides. 6. Checker plate deck surface.
7. Power unit. 8. Controller. 9. Disconnect. 10. Concrete block hoistway enclosure.



Atlantic Lifts is a manufacturer of high quality elevating devices. Atlantic specializes in Material lifts, Freight elevators, Freight platform lifts and Lifts for Persons with Physical Disabilities. The in-house engineering team guarantees the ability to meet any custom design. Clients can feel comfortable when relying on Atlantic's 75 years of experience.

All Atlantic's Lifts have holeless hydraulic systems which avoid the environmental dangers (toxic oil leakage, etc.) associated with traditional hydraulic systems. Atlantic Lifts has historically produced products that exceed relevant codes (i.e. CAN/CSA B44/ASME A17.1)

In addition to Material Lifts, Freight Elevators and Platform Lifts, Atlantic Lifts is capable of truly custom work in material handling equipment. Please contact us to review your requirements.

## Freight Platform Lift/Material Lift Description

The Atlantic Freight Platform Lift/Material Lift is a holeless design with a side mounted hydraulic cylinder(s). Unlike conventional hydraulic systems, this design does not seep oil, making it one of the most environmentally friendly systems available. Platform Lifts are governed by CAN/CSA B44/ASME 17.1 allowing for penetration of one floor (a variance may be required above 5m). Maximum allowable lift speed is .15m/sec. (30ft./min.)

The power unit and controller are located in a machine space that is adjacent to the hoistway.

### Structure

The platform is a welded structural steel assembly with a nonskid checker plate surface. The wall panels are constructed of sheet metal on a structural tube frame and are a minimum of 2 meters high. The platform assembly is guided by high tensile "I" beam vertical guide rails by means of four inch, high speed, sealed bearings attached to the top and bottom of the platform. This design provides for the highest stability and least distortion available in the industry today, providing a safe and durable system for both front and side loading. Safety maintenance pins are provided that when put in place, will safely support the platform during maintenance or service. Atlantic's in-house welding shop and field service team are CWB approved CSA W47.1. and W59.

### The Hydraulic System

The pumping unit is comprised of a direct coupled motor and fully submerged pump, oil reservoir, suction and filter strainers, solenoid operated lowering valve, pressure gauge with isolating valve, pressure relief valve, manual shut-off valve, pressure compensated flow control and a manual lowering bypass valve to allow lowering of the platform in the event of a power failure. The hydraulic control valve control provides for soft starts and stops in both directions.

This leak proof system is above ground and does not endanger surrounding soil with contaminations. The hydraulic cylinder(s) is a single speed, piston seal or displacement type with seamless tube, micro-honed cylinder walls and chrome finish piston rods. The cylinder(s) come equipped with a safety velocity fuse at the pressure port to stop downward motion of the platform in the event of a hydraulic supply line failure.

Synchronized telescopic cylinder(s) are available for low overhead applications.

### The Electrical Control System

The control panel is comprised of two main contactors in line with the thermal overload motor protection, a transformer to reduce the control voltage to 120 volts for operator safety and a fused circuit of industrial relays.

The up and down push button controls are of the constant pressure (CPPB) type that, when depressed, will raise or lower the lift until released or the landing selected is reached. The controls and equipment may be protected against unauthorized use by keyed switches. The control station(s) are provided with an emergency stop button which when depressed, renders all stations inoperable.

An anti-creep levelling device is provided to maintain floor level.

No controls except the emergency stop will override device a control device in operation. Controls on the platform have priority and render the landing controls inoperative while the push buttons are depressed and, for a timed period when they are released. Other than the anti-creep levelling device, all controls are switched off when any door is open. The doors are mechanically locked when the car is not at the landings.

The failure of any single, magnetically operated switch, contactor, or relay to release in the intended manner shall not prevent the platform from stopping in response to terminal stopping devices.

A pit switch is provided that when activated removes power from the system for safety during service and maintenance.

## Pitless/Rampless Option

Also available, Atlantic Freight Lift/Material Lift with no pit and no ramp.

This NEW concept of freight lift/material lift is simply mounted to your floor slab. It does not require a ramp or expensive pit work.

This unit can serve two or three landings depending on the travel complete with expanded metal hoistway, double swing doors, and constant pressure push buttons.

Up to 4,000lb. capacity, lift speed 30 f.p.m. Built to CAN/CSA B44/ASME 17.1, CSA W47.1 and W59.



## Freight Elevator Description

The Atlantic Freight Elevator is a holeless design with a side mounted hydraulic cylinder(s). The Model SFE has a single cantilevered holeless hydraulic system and Model DFE has a double rail dual holeless hydraulic system.

Unlike conventional hydraulic systems, this design does not seep oil, making it one of the most environmentally friendly systems available.

Freight Elevators are governed by CAN/CSA B44/ASME A17.1. Freight Elevators are allowed a vertical travel limited only by the capacity of the hydraulics.

The power unit and controller are located in a machine room that is adjacent to the hoistway.

### Structure

The car is a welded structural steel assembly with a nonskid plate surface. The wall panels are constructed of sheet metal on a structural tube frame and are minimum or 2 meters high. The car assembly is guided by high tensile "I" beam vertical guide rails by means of four inch, high speed, sealed bearings attached to the top and bottom of the car. This design provides for the highest stability and least distortion available in the industry today, providing a safe and durable system for both front and side loading. The freight elevator has a fully enclosed car with manual or power car doors or gates. Safety maintenance pins are provided that when put in place will safely support the car during maintenance or service. Atlantic's in-house welding shop and field service team are CWB approved to CSA W47.1 and W59.

### The Hydraulic System

The pumping unit is comprised of a direct coupled motor and fully submerged pump, oil reservoir, suction and filter strainers, solenoid operated lowering valve, pressure gauge with isolating valve, pressure relief valve, manual shut-off valve, pressure compensated flow control valve and a manual lowering bypass valve to allow lowering of the platform in the event of a power failure. The hydraulic control valve provides for soft starts and stops in both directions.

This leak proof system is above ground and does not endanger surrounding soil with contamination. The hydraulic cylinder(s) is a single action, single speed, piston seal or displacement type with seamless tube, micro-honed cylinder walls and chrome finish piston rods. The cylinder(s) come equipped with a safety velocity fuse at the pressure port to stop downward motion of the platform in the event of a hydraulic supply line failure.

Synchronized telescopic cylinders(s) are available for low overhead applications.

### The Electrical Control System

The control panel is comprised of two main line contactors in line with the thermal overload motor protection, a transformer to reduce the control voltage to 120 volts for operator safety and a fused circuit of industrial relays.

The floor selection push button controls are of the momentary contact (SAPB) type that will raise or lower the car until the selected floor is reached. The controls and equipment may be protected against unauthorized use by keyed switches. The control station is provided with an emergency stop button which when depressed, renders all stations inoperable.

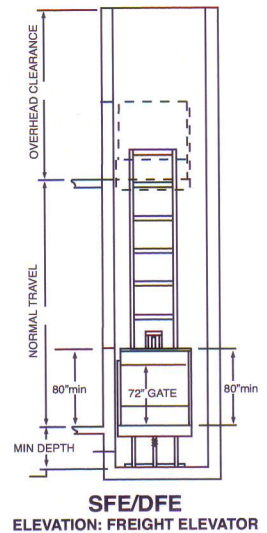
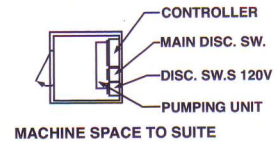
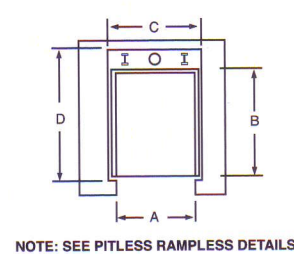
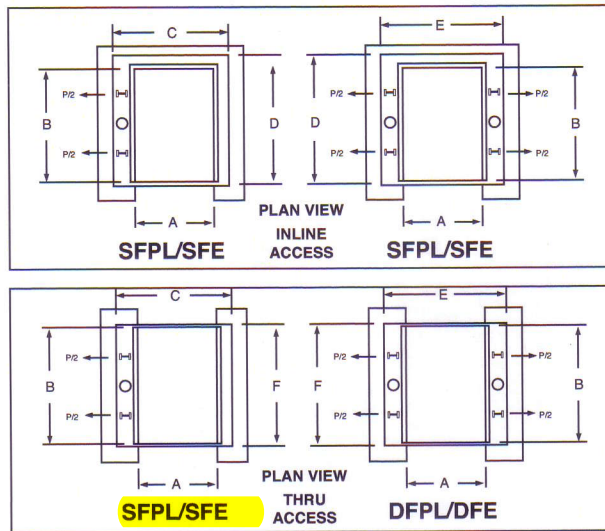
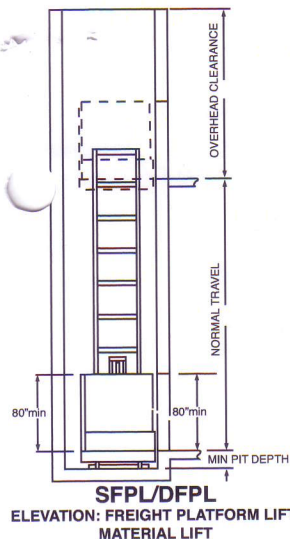
An anti-creep levelling device is provided to maintain floor level.

No controls except the emergency stop will override a control device in operation. Controls on the car have priority and render the hall station inoperative once a floor button is selected, and, for a timed period to allow personnel to exit the car. Other than the anti-creep levelling device, all controls are switched off when any door is open. The doors are mechanically locked when the car is not at the landings.

The failure of any single, magnetically operated switch, contactor, or relay to release in the intended manner shall not prevent the car from stopping in response to terminal stopping devices.

A pit switch is provided that when activated removes power from the system for safety during service and maintenance.





### \*GENERAL DESIGN GUIDE TABLE

SFPL SFE		HOISTWAY FORCES (KIPS)	CAR DIMENSIONS (INCHES) (A x B)		HOISTWAY DIMENSIONS (INCHES)			
						INLINE ACCESS (C x D)	THRU ACCESS (C x F)	PIT DEPTH ** (MIN)
MODEL	CAPACITY	PIT REACTION	A	B	C=A+20	D=B+9	F=B+2	
SFPL 5660	4000	16	56	60	76	69	62	8
SFPL 6872	4000	17	68	72	88	81	74	8
SFPL 8084	4000	18	80	84	100	93	86	8
SFPL CUSTOM		INSERT CUSTOM CAR DIMENSIONS						
MODEL	CAPACITY	PIT REACTION	A	B	C=A+20	D=B+12	F=B+9	
SFE 5660	4000	16	56	60	76	72	69	34
SFE 6872	4000	17	68	72	88	84	81	34
SFE 8084	4000	18	80	84	100	96	93	34
SFE CUSTOM		INSERT CUSTOM CAR DIMENSIONS						34
DFPL DFE		HOISTWAY FORCES (KIPS)	CAR DIMENSIONS (INCHES) (A x B)		HOISTWAY DIMENSIONS (INCHES)			
						INLINE ACCESS (E x D)	THRU ACCESS (E x F)	PIT DEPTH (MIN)
MODEL	CAPACITY	PIT REACTION	A	B	E=A+22	D=B+9	F=B+2	
DFPL 9696	6000	26	96	96	118	105	98	12
DFPL 96120	8000	32	96	120	118	129	122	12
DFPL 96144	10000	42	96	144	118	153	146	12
DFPL CUSTOM		INSERT CUSTOM CAR DIMENSIONS						12
MODEL	CAPACITY	PIT REACTION	A	B	E=A+22	D=B+12	F=B+9	
DFE 9696	6000	26	96	96	118	108	105	34
DFE 96120	8000	32	96	120	118	132	129	34
DFE 96144	10000	42	96	144	118	156	153	34
DFE CUSTOM		INSERT CUSTOM CAR DIMENSIONS						34

### PITLESS RAMPLESS

SFPL - PITLESS/RAMPLESS		HOISTWAY FORCES (KIPS)	CAR DIMENSIONS - 5M (INCHES) (A x B)		HOISTWAY DIMENSIONS (INCHES)	
					C=A+16	D=B+12
MODEL	CAPACITY	FLOOR REACTION	A	B		
SFPL 5660	3000	14	56	60	72	72
SFPL 6872	3000	15	68	72	84	84
SFPL 8084	3000	16	80	84	96	96

\* The above tables should be used as a **GENERAL GUIDE ONLY**.

\*\* Pit depth may vary with available overhead clearance.

The custom nature of many projects may require deviations from this information.

### KEY SURVEY DATA

Please contact Atlantic Lifts Ltd. for help in determining the key data appropriate for your project.

S ☐ SFPL ☐ DFPL ☐ SFE ☐ DFE ☐

Quantity Ordered: \_\_\_\_\_

Platform Lift Type: A (no rider) B (with material handler)

Elevator Class: A General Freight ☐ B Motor Vehicle ☐ C Industrial ☐

Net Platform Size: \_\_\_\_\_ wide x \_\_\_\_\_ long

Capacity: \_\_\_\_\_

Travel: \_\_\_\_\_ over 5 meters ☐

Habitable Space beneath hoistway ☐

Speed: \_\_\_\_\_ (Platform Lifts 30fpm)

Overhead Clearance: \_\_\_\_\_

Pit Depth: \_\_\_\_\_

Power Supply: \_\_\_\_\_

No. of Entrances: \_\_\_\_\_ Inline ☐ Through ☐ 90° ☐

No. of Landings: \_\_\_\_\_

Hoistway Enclosure: Block ☐ Drywall ☐ Mesh ☐

Landing Doors: \_\_\_\_\_

Platform Doors: \_\_\_\_\_

Note- Door type affects hoistway size and pit depth (vertical - bi parting)



# Custom Lifts and Material Handling Devices

Atlantic Lifts specializes in meeting the design needs of our customers. Atlantic's engineering expertise and manufacturing versatility allow for the production of any type of personnel or material handling device. Below are just a few examples of our capabilities:

## Pitless Double Rail Lifts (Photo 1)

The pitless Double Rail Lift is designed for today's courier/shipping industries. These lifts feature a platform design enabling access to the lift without the cost of expensive pit/concrete work. With a solid steel plate design, a chamfered 3/4 inch non slip deck and lip plates allow easy access to the lift from any floor level. These lifts are guided with high tensile steel "I" beam sections, heavy duty mast rollers and side mounted hydraulic lift cylinders. Capacities from 1000 lbs. and travel distances up to 78" are standard. (Custom requirements are also available). These lifts are shipped completely assembled, tested, and adjusted from the factory ready for immediate operation. Each unit comes C/W push button controls, pumping unit, controller and automatic safety guard rails. This unique design offers the maximum versatility in regards to placement, capacity, travel and safety available to the industry today.

1



2



## ATV 2500 (Photo 2)

The ATV 2500 is a small vehicle and equipment lift designed to service the golf course, landscape and other industries involving small equipment. The lift has 3 sided open access with 2,500 lb capacity and a lift height of 72". The ATV 2500 weighs only 1,000 lbs and has a mast height of 90". Like all Atlantic lifts, the ATV 2500 uses environmentally friendly above ground hydraulics and incorporates mechanical and hydraulic safety features.

3



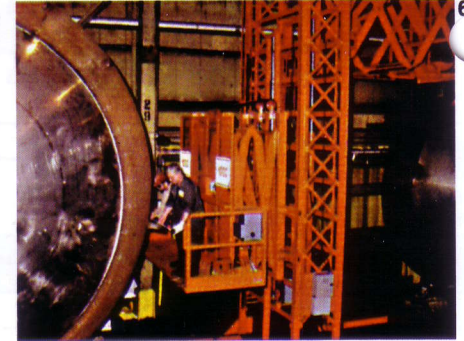
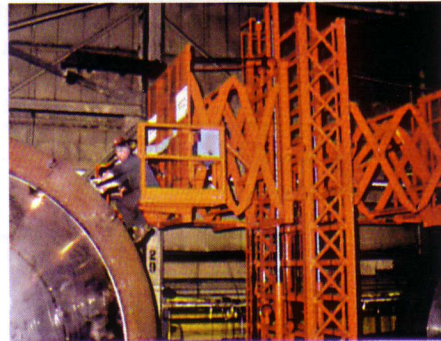
## Vehicle Lift (Photos 3-4)

The standard Atlantic vehicle lift has a capacity of 7,000 lbs. However, custom designs are possible to meet other requirements. This lift is operated by hydraulic cylinders and solid steel scissor legs. The controls are up, down push buttons of the constant pressure C.P.P.B. type. The platform is a welded structural steel assembly with non-skid checker plate surface. The Atlantic vehicle lift's unique design allows for drive on drive off at different levels, as well as two-level storage. Each unit is designed with the required safety equipment for the Application.



4

5



6

## Vertical and Horizontal Lift (Photo 5-6)

This unique custom design was developed to meet the needs of the Babcock Wilcox company. The man platform can realize up to 25 feet in height and 10 feet of extension. As well, the two platforms work independently allowing for repairs to different size boilers.

## Scissor Lift Table (Photo 7)

Constructed of solid steel scissor legs, plain spherical bearings are used as standard equipment at scissor center, and cylinder pins, to remove any misalignment. With quality hydraulic cylinders and a platform manufactured of steel plate and tube design, lift tables range in capacity from 1000 lbs and up. Atlantic has manufactured scissor lift tables from 2'x3' up to 40'x40' for today's complex industry. All designs, sizes, and options are available. Atlantic has manufactured for the food, automotive, aircraft, electrical, and heavy equipment industries, as well as conveyor lines and custom applications.

7



## Lifts and Elevators for use in Hazardous Environments

Atlantic Lifts has developed several lifts for use in hazardous environments. The Schenectady Chemical Plant, in Scarborough, has an Atlantic lift with a 120 square foot platform and 16,000 lb. capacity. Other lifts have been located at the BASF plant in Windsor, Ontario.

**ATLANTIC LIFTS LTD.**

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