

# M SERIES

## 2-POST MECHANICAL LIFT



MATERIAL HANDLING SOLUTIONS

www.pflow.com  
P (414) 352 9000  
F (414) 352 9002  
6720 N. Teutonia Ave.  
Milwaukee, WI 53209

**Transports large, heavy loads  
between two or more levels.**

**Ideal for high-speed or  
high-cycle automated systems.**



- Lifts loads up to 10,000 lbs.  
Carriage size 12' x 12' standard.  
Customization available for larger sizes.
- Vertical rise to 200' or more.  
Standard travel speed is 25-30 FPM.
- Straddle or cantilever.
- Indoor or outdoor use.
- Lifetime structural warranty.
- ASME B20.1 compliant.

### GENERAL

Principal components of the M Series are guide columns, carriage and a motor-gear reducer drive.

### STRUCTURE

Guide columns are 6" wide flange sections. Carriage is fabricated with heavy structural steel members and a steel deck plate. Other deck surfaces can be supplied. Straddle or cantilever carriage available, depending on application.

- Superior strength, reliability and long-term performance.
- Carriage is lifted and lowered by heavy-duty roller chain using a shaft-mounted gear reducer and motor, mounted atop 6" guide columns.
- Advanced built-in safety features protect workers and materials.
- Certified safety cams prevent carriage descent in the event of a chain failure.
- DeckLock Safety System available for added security at critical upper levels.
- Optional hot-dipped galvanized or epoxy finish available for outdoor or wash-down environments.
- Explosion-proof components available for classified environments.

### OPERATION

Carriage is lifted and lowered by roller chain attached to an electric motor/reducer assembly mounted on the guide columns. Standard units employ 2 HP to 15 HP TEFC brake motors.

### ELECTRICAL

Standard power requirements are 230/460VAC, 3-phase. Control voltage is 110VAC. Standard control panels and push-button stations are NEMA 12 rated. Push-button stations provided at each level include momentary contact, call/send operators and mushroom head emergency stop.



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### SAFETY FEATURES

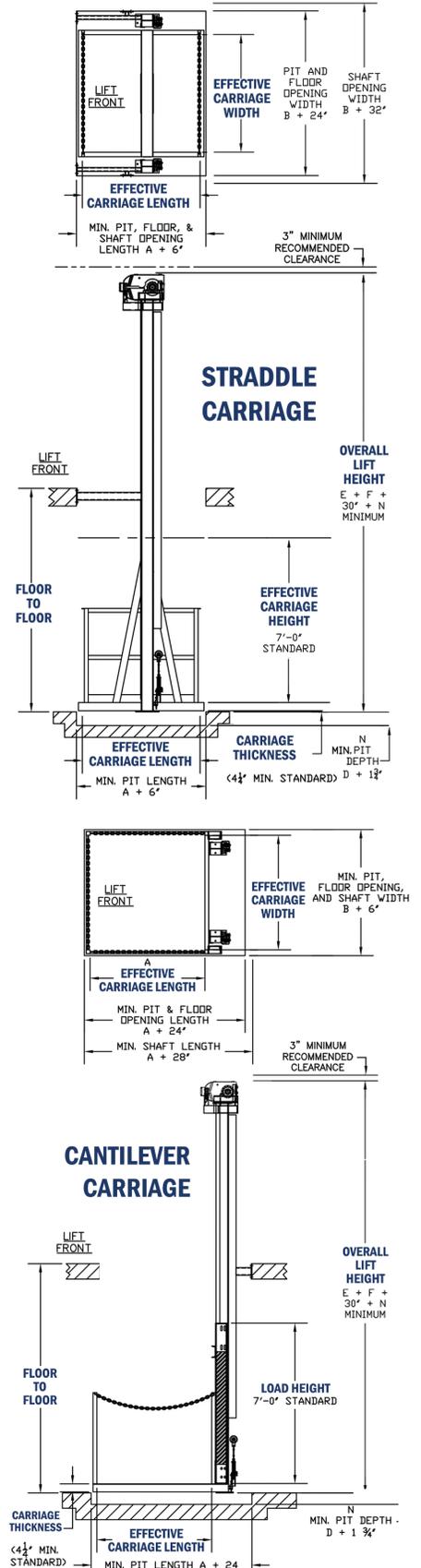
Travel of the carriage is controlled by a limit switch. When the switch is tripped or power is lost, the motor shuts off and the mechanically actuated brake is engaged. Overload protection is provided by a relay that measures the motor current. If the current exceeds the amount required to move the maximum load, it will shut the unit down and engage the brake. Chain sensors shut down the lift if chain tension is lost. Chain tensioners and guides prevent chains from jumping on sprockets. NO RIDER signs posted at each point of operation.

### CARRIAGE SIDE GUARDS

Carriage is equipped with safety rails on non-operating sides, and a safety chain, drop bars or gates on operating ends. Optional expanded metal or sheet metal carriage side guards available.

### SAFETY ENCLOSURES / GATES

Safety codes (ASME B20.1) require interlocked gates with enclosures on all sides of the lift. Enclosures must be a minimum of 8' high and reject a ball 2" in diameter.



- A Effective Carriage Length
- B Effective Carriage Width
- D Carriage Thickness
- E Upright Height or Load Height
- F Vertical Rise