

# PFlow

Industries, Inc.

## M SERIES | 2-POST MECHANICAL LIFT

The most versatile of lifts, have minimal limitations and customized for the widest variety of uses.

- ↓↑ Lifts loads up to 10,000 lbs. Carriage sizes up to 12' x 10' or more. Maximum vertical rise of 200'. Standard travel speed is 25-30 FPM (500 FPM or more available).
- ↓↑ Carriage is lifted and lowered by heavy-duty roller chain attached to a mechanical lifting mechanism mounted on top of the 6" guide columns.
- ↓↑ Straddle or cantilever carriages available.
- ↓↑ Ideal for high-cycle, automated systems or frequent-use applications.
- ↓↑ Designed to transport large, heavy loads between two or more levels.
- ↓↑ Proven 2-post mechanical design and quality construction provides superior strength, reliability and long-term performance.
- ↓↑ DeckLock Safety System available for added security at critical upper levels.
- ↓↑ Suitable for indoor or outdoor use. Optional hot-dipped galvanized or epoxy finish; available for outdoor, chemical, caustic wash-down, or explosion proof environments.
- ↓↑ Conforms to ASME B20.1 Safety Standards.



**GENERAL**

The M Series moves materials between two or more levels. Principal components are guide columns, carriage and a motor-gear reducer drive.

**APPLICATION DATA**

Lifts loads up to 10,000 lbs. Carriage sizes up to 12' x 10' or more. Maximum vertical rise of 200'. Standard travel speed is 25-30 FPM (500 FPM or more available).

**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.

**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 10 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 are provided at each level and include momentary contact, call/send operators and mushroom-head emergency stop.

**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. Safety cams, mounted on the carriage prevent uncontrolled descent if chains break. Chain sensors shut down the lift if chain tension is lost. Chain tensioners and guides prevent chains from jumping on sprockets. NO RIDER signs are posted at each point of operation. Available with optional DeckLock Safety System.

**CARRIAGE SIDE GUARDS**

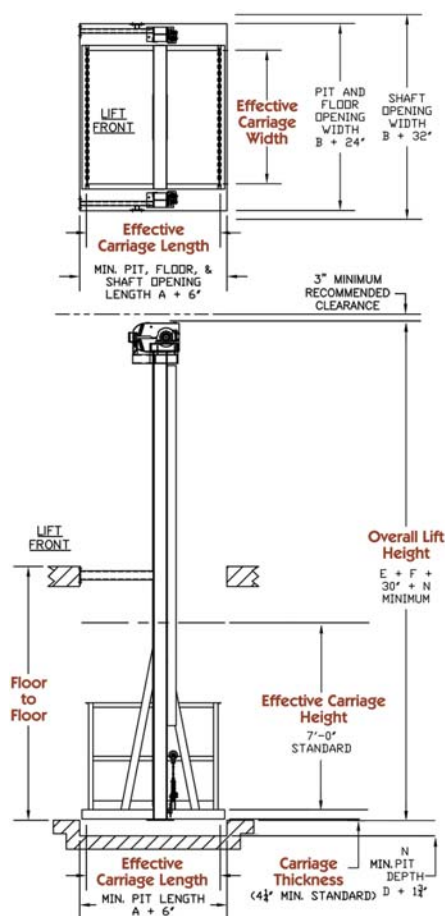
Carriage is equipped with safety rails on non-operating sides and safety chains or diagonal drop bars on operating gates ends. Optional expanded metal or sheet metal carriage side guards available.

**SAFETY ENCLOSURES / GATES**

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



STRADDLE CARRIAGE



CANTILEVER CARRIAGE

