

F SERIES

4-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 multiple pallets, oversized materials, large carts or heavy machinery between two or more levels. Ideal for high-speed, high-cycle or automated systems.



- Lifts loads up to 50,000 lbs. Customization available for heavier loads.
- Unlimited carriage sizes.
- Unlimited vertical rise.
- Standard travel speed is 20 FPM.
- Indoor or outdoor use.
- Lifetime structural warranty.
- ASME B20.1 compliant.

GENERAL

Principal components of the F Series are guide columns, carriage and a mechanical lifting mechanism.

STRUCTURE

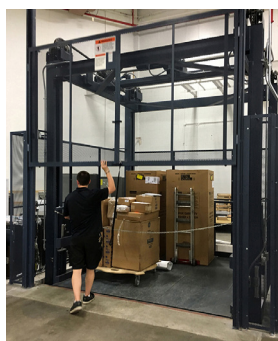
- Guide columns are built from wide-flange beams. Carriage is fabricated of heavy-duty structural steel members and deck plate. Other deck surfaces available.
- Carriage is lifted and lowered by heavy-duty roller chain attached to mechanical lifting mechanism, mounted atop guide columns. Guide columns vary from 6" to 12".
- Four-post design allows loading and unloading from all sides with flexible traffic patterns.
- 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 switch is tripped or power is lost, the motor shuts off and the mechanically actuated brake engages. Overload protection provided by a relay that measures 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.

