

21 SERIES

2-POST HYDRAULIC LIFT



MATERIAL HANDLING SOLUTIONS

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

Transports materials between two levels. Carriage remains level regardless of load placement.



- Lifts loads up to 8,000 lbs. Carriage sizes up to 12' x 10'.
- Vertical rise to 22'. Standad vertical travel is 24 FPM.
- Straddle or cantilever.
- Indoor or outdoor use.
- Lifetime structural warranty.
- ASME B20.1 compliant.

GENERAL

Principal components of the 21 Series are guide columns, carriage and hydraulic actuating mechanism.

STRUCTURE

Guide columns are 6" wide flange. Carriage is fabricated of heavy-duty structural members with steel deck plate. Other deck surfaces available. Straddle or cantilever carriage available, depending on application.

- Carriage is lifted and lowered by chain over sprockets actuated by column-mounted cylinders. Synchronized shaft ensures that carriage stays level at all times.
- Highly stable loading and unloading operations maintained by pressure switch that prevents carriage from drifting or sinking.
- Check valves hold carriage in place in event of power loss.
- Certified safety cams prevent carriage descent in the event of a chain failure.
- Velocity fuses prevent uncontrolled carriage descent in the event of a hose rupture.
- Field wiring costs greatly reduced by optional quick-connect cabling for push-button stations and gate interlocks.
- Optional hot-dipped galvanized or epoxy finish available for outdoor or wash-down environments.
- Explosion-proof components available for classified environments.
- DeckLock Safety System available for added security at critical upper levels.

OPERATION

Carriage is lifted and lowered by two hydraulic cylinders mounted on guide columns. Cylinders are actuated by a remote mounted hydraulic pump. Transmission of the lifting force is through roller chain attached to the cylinders and carriage. A torsion bar links the two cylinders to equalize the load and ensure carriage remains level at all times.



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ELECTRICAL

Standard power requirements are 208/230/460VAC, 3-phase (single-phase available). Control voltage is 24VAC. Push-button stations and pump mounted pre-wired control panel are NEMA 12 rated. Push-button stations provided at each level and include call/send operators and mushroom head emergency stop. Quick connect pre-wiring is optional.

SAFETY FEATURES

Upward travel of carriage limited by mechanical stops that ensure positive leveling with upper deck. Positive mechanical stops prevent overtravel. Pressure builds to "lock" carriage into position at upper level. NO RIDER signs posted at each point of operation. DeckLock Safety System available for added security at critical upper levels.

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 are 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.

