

## F SERIES | 4-POST MECHANICAL LIFT

Maximum capacity and a rugged 4-post design for the heaviest lifting applications.

- ↕ Lifts heavy, bulky oversized loads up to 50,000 lbs or more. Unlimited carriage sizes and vertical rise. Standard travel speed of 20 FPM (400 FPM or more available).
- ↕ Carriage is lifted and lowered by heavy-duty roller chain attached to a motor gear reducer mounted on top of 6" guide columns.
- ↕ Transports multiple pallet loads, large carts, heavy machinery and any other type of load between two or more levels.
- ↕ Provides maximum flexibility in carriage size, capacity and traffic patterns.
- ↕ Loading and unloading from all four sides.
- ↕ Quality construction provides superior strength, reliability and long-term performance.
- ↕ Built-in, advanced safety features protect workers and materials.
- ↕ 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 F Series moves materials between two or more levels. Features four-corner support for heavy-duty, vertical material handling jobs. Principal components are guide columns, carriage and a mechanical lifting mechanism.

## APPLICATION DATA

Lifts heavy, bulky oversized loads up to 50,000 lbs or more. Unlimited carriage sizes and vertical rise. Standard travel speed of 20 FPM (400 FPM or more available).

## STRUCTURE

Guide columns are 6" wide flange. Carriage is fabricated of heavy-duty steel structural members with deck plate. Other surfaces can be supplied. Can be loaded/unloaded from all four sides.

## OPERATION

Carriage is lifted and lowered by roller chain attached to an electric motor/reducer assembly mounted on the guide columns. Standard speed units employ 7-1/2 HP to 25 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

Upward/downward 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 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 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, gates or diagonal drop bars on operating 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.

## F SERIES SPECIFICATIONS | DIMENSIONS | DATA

