

# SERIES DB

## PACKAGE HANDLING LIFTS

**SERIES DB LIFT PROVIDES FAST, SAFE LIFTING OF SMALL LOADS AND PACKAGES, AND FEATURES COUNTERWEIGHTED LIFTING MECHANISM FOR SMOOTH, QUIET OPERATION.**

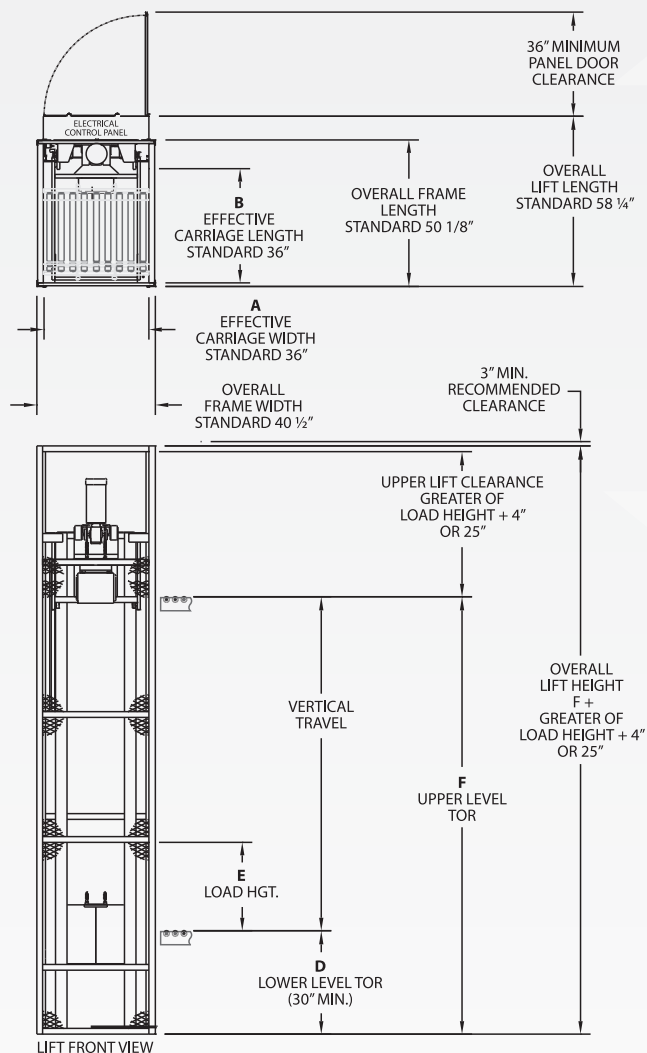
- Ideal for high-speed applications that require lifting of boxes, cartons, packages, totes, containers or cases.
- Provides throughput of four loads per minute (based on 100 lb. load, 10' vertical rise, 90 to 120 fpm horizontal conveying speed.)
- Perfect for use in an automated system.
- Saves space and handles loads that are often transported on an inclined conveyor.
- Completely self-contained, self-supporting and economical. Moves loads to mezzanines, between floors or between conveyor levels.
- Lifts up to 100 lb. live loads with carriage sizes up to 3' x 3'. Vertical rise to 50'. Travel speeds from 60 fpm to 400 fpm.
- Counterweighted design minimizes horsepower requirements, saves energy costs.
- Optional variable frequency drive package ensures smooth acceleration and deceleration control in high-speed, automated systems.
- Allows loading and unloading from three sides.
- Durable, high-quality construction ensures safe, reliable, long-term performance. Standard full-height safety enclosure protects workers and materials.
- Meets ANSI/ASME B20.1 code for conveyorized systems.



For immediate answers to your application questions, Call Pflow at 414-352-9000, or visit: [www.pflow.com](http://www.pflow.com)

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## DIMENSIONS & DATA



**A.** Effective Carriage Length  
**B.** Effective Carriage Width

**D.** Lower Level TOR  
**E.** Load Height  
**F.** Upper Level TOR

**Note:** The dimensions shown are illustrative. Request a job-specific drawing before making any building modifications.

## SPECIFICATIONS

### GENERAL

Pflow Series DB Vertical Lifts move materials between two or more levels. Principal components are guide columns, carriage and mechanical actuating mechanism. All components are pre-assembled for ease of installation.

### APPLICATION DATA

Pflow Series DB Vertical Lifts are available with: Live load lifting capacities to 100 lbs.; carriage sizes to 36" x 36"; vertical rise to 50'. Standard travel speed is 60 fpm. Travel speeds up to 400 fpm are available with variable frequency drive package.

### STRUCTURE

Frame is designed to be self-supporting and constructed of structural tube and steel. Carriage is typically supplied with powered roller conveyor deck. Carriage is cantilever style and may be loaded from any one of three operating sides depending on application.

### OPERATION

Carriage is lifted and lowered by dual chains or timing belts attached to an electric motor-reducer assembly mounted on the frame. Power unit employs a 1/2 HP TEFC brake motor mounted to the top of lift frame.

### ELECTRICAL

Standard power requirements are 230V/460V, 3-phase. Single phase is available upon request. Control voltage is 110V. Control panel and push button station are NEMA 12. Control panel is designed to be mounted to the back of the frame, and all control devices are pre-wired at the factory. A variety of control options are available from basic interface to PLC automated controls.

### SAFETY FEATURES

Upward and downward travel of the carriage is controlled by a limit switch. When the switch is tripped, the motor shuts off and the brake is engaged. Overload and carriage overtravel protection is provided.

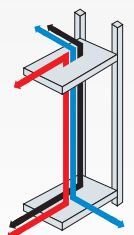
### CARRIAGE & SAFETY ENCLOSURES

Standard units include full-height enclosures on all sides made of 1/2" expanded metal. Optional expanded metal and sheet metal side guards are available for carriage.

## SERIES DB PACKAGE LIFT LOADING/UNLOADING PATTERNS:

- C-Pattern
- Z-Pattern
- 90°-Pattern

**Note:** All Patterns Are Reversible.



**CANTILEVER**



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Pflow is a member of MHIA, CEMA, NAEC, and MHEDA.