

# PFlow

Industries, Inc.

## DB SERIES | PACKAGE HANDLING LIFT

Fast, safe and automated for small loads and packages.

- ↓↑ Lifts loads up to 100 lbs. Carriage size is 3' x 3'. Standard vertical rise to 25'. Travel speeds from 60 FPM up to 600 FPM. (Advanced speeds available up to 1,500 FPM.)
- ↓↑ Perfect for use in automated conveyORIZED systems.
- ↓↑ Available with variable frequency or Servo drive packages.
- ↓↑ Drive packages ensure smooth acceleration and deceleration control in high-speed, automated systems.
- ↓↑ Provides high throughput of loads.
- ↓↑ Ideal for high-speed applications that require light-duty lifting of boxes, cartons, packages, totes, containers or cases.
- ↓↑ Moves loads to mezzanines, between floors or between conveyor levels.
- ↓↑ Loading and unloading from three sides.
- ↓↑ Completely self-contained, self-supporting and economical.
- ↓↑ The smooth and quiet counter-weighted lifting mechanism minimizes horse-power requirements and saves energy costs.
- ↓↑ Durable, high-quality construction ensures safe, reliable, long-term performance.
- ↓↑ Saves space and handles loads that are often transported on an inclined conveyor.



**GENERAL**

The DB Series moves 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**

Live load lifting capacities to 100 lbs; carriage size is 3' x 3'; standard vertical rise to 25'. Travel speeds from 60 FPM up to 600 FPM. (Advanced speeds available up to 1,500 FPM.)

**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 fractional HP brake motor mounted to the top of lift frame.

**ELECTRICAL**

Standard power requirements are 230/460VAC, 3-phase. Control voltage is 110VAC. Standard push button stations and control panel are NEMA 12 rated. 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/downward 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 brake is engaged. Overload and carriage over-travel protection is provided.

**SAFETY ENCLOSURES**

Standard units include integral, full-height enclosures on all sides made of 1/2" expanded metal.

