

The Dock-Master is the Ultimate Dock Worker



Using cutting edge hydraulic technology, Atlantic's engineering staff has created the market's most versatile loading dock machine. Drawing on more than 25 years of experiences, and development of many advanced operational and performance features, Atlantic has prepared a single piece of equipment which allows ground level access from any dock line as a platform lift, and a full reach bridging range of 20" above dock floor to 20" below the dock floor as a dock leveler. That's a 40" range as a loading ramp for swift access and freight handling to every conceivable truck from virtually any dock. The Dock-Master solves all types of loading problems left unresolved by lesser product designs.

One dock door can now service any freight handling need. No need to invest in multiple dock doors and dock or yard space, which is occasionally used. The Atlantic Dock-Master eliminates the investment in lost space and multiple equipment purchases which can still fall short of handling the unexpected. The Dock-Master provides a cost effective, efficient loading dock while eliminating the added costs of multiple pit construction, wall openings and outdoor yard work. The Dock-Master is truly a beneficial up grade for any facility loading dock.

Safety/Performance Features

- Triple Filtration System: Fully filtered suction, pressure and return lines for contamination free Lift operation. Eliminates the primary causes of equipment service and maintenance needs.
- Double-Acting Cylinders: Precision double-acting system is more efficient, provides longer equipment life.
- Totally Enclosed Hydraulic System: Protects against environmental contamination.
- Safety Valving: Lifting cylinders have safety valving to limit freefall to under 3" if fluid control is lost.
- Fully Hydraulic Operation: All functions of Leveler and Lift under positive hydraulic control via automatic hydraulic circuits.
- Automatic Lift Positioning and Emergency Stops: Lift can be positioned to desired height of stopped on command via push-button control.
- Solid State Computerized Controller: Use as Dock Leveler or Dock Lift via State-of-the-art PLC controls.
- Independent Lift and Leveler Motor-Pump Units: Separate self-contained units provide maximum efficiency and eliminate loss of equipment use.

Overview:

Recognizing that contamination of the hydraulic system can cause high service and maintenance costs with other lift systems, Atlantic developed a triple filtration system. This exclusive system enhanced by independent, totally enclosed motor pump systems provides a contamination free hydraulic environment.

Atlantic's regenerative double-acting system speeds lift operation, minimizes wear of cylinders and seals and provides a more efficient operation overall.

The combined functions of a Dock Lift and a Dock Leveler at a single dock position allows the service of any loading need at any level of truck bed without a specialized handling effort by the dock worker. This maximizes freight handling efficiency and safety while promoting a maximum return for the users investment in dock space.

SPECIFICATIONS: “DM” SERIES

General Description: The Dock-Master “DM” Series, as manufactured by Atlantic Engineered Products, L.L.C., provides fully-hydraulic operation of all functions of Lift and Leveler via automatic hydraulic circuits. Hydraulic system controlled by a remote operator station, provided. A pendant station with coil cord is also provided for mobile operation of Lift. Unit is designed for pit installation.

Nominal Dimensions and Capacities: The standard platform size is 6’6” wide X 12’0” long. Standard lip is 16”. Standard capacity for Lift is 16,000 lbs. and Leveler is 35,000 lbs. Other sizes and capacities are available.

Operation: Fully hydraulic operation of all functions via push-button control. In Leveler operation dock attendant pushes the “Operate” button to raise ramp and extend lip. Upon release of button, ramp will lower and extended lip will come to rest on truck bed. When service is complete ramp will automatically return to stored position. Additionally, the push-button control will return ramp and lip to stored position while truck remains at dock. Operating range is 20” above and 20” below dock level. In Lift operation attendant pushes the “Up” or “Down” button to position the platform to desired height. Release of button will stop Lift movement. Lip can be extended during operation via the push-button control; Maximum Lift height is 55”. Additionally, an Emergency Stop Button is provided to stop all functions of Leveler of Lift.

Construction: Platform and lip is constructed of high yield 55,000 PSI type safety tread steel plate. Deck plate thickness is 3/8” and lip plate thickness is 5/8”. Ramp is a welded, bridge-type structure with structural steel supports. Continuous spool type lip hinge is seamless tube. Hinge shafts are one-piece cold drawn steel, full width. Base frame construction is structural steel weldment. Scissor arms are rectangular steel beams mounted in the structural steel base frame.

Hydraulics: The self-contained hydraulic pump unit with 5hp totally enclosed motor shall provide hydraulic power for all operations of Lift. Industrial grade hydraulic cylinders raise lift. Lift speed is approximately 14 fpm. The Leveler has a separate self-contained hydraulic pump unit with 1hp motor. Separate hydraulic cylinders operate ramp and lip individually. During operation, automatic valving shall control functions of leveler thru a regenerative hydraulic circuit. Lifting cylinder shall have safety valving to limit freefall to under 3” if fluid content is lost.

Electrical: Pre-wired push-button station to control all functions of the Dock-Master. Operator station is housed in a gasketed enclosure, which meets NEMA requirements for internal or external use. Pendant push-button Lift control with 20’ coil cord also provided. Totally enclosed motors are rated at 230V/460V three phase. Wiring from push-button station to motor junction box and power source, by others. Exterior traffic light provided to alert personnel that platform is in lowered position.

Safety Consideration:

- Fully-hydraulic Operation
- Automatic Emergency Stops
- Automatic Storage Control of Leveler
- Full-range Toe Guards
- Maintenance Supports
- Communication System
- Roll-up Safety Skirt

Warranty: Coverage provided for one (1) full year from date of installation. Atlantic Engineered Products, L.L.C. will exchange or repair any hydraulic or structural component if found to be defective in manufacture. Dock leveler to meet or exceed OSHA, CS202-56, ANSI MH14.1-84 and ANSI MH30.1-93 standard.

Atlantic Engineered Products, L.L.C. reserves the right to alter details without prior notice or incurring obligation.