

# PalletMAX™ Pallet Dispensers/Stackers

## Product Specifications



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## A. PalletMAX™ Pallet Dispensers and Stackers Overview

The PalletMAX™ pallet dispensers and stackers are heavy duty machines designed to dispense or stack pallets onto or out of a conveyor-based system. These machines are PLC controlled with a color touchscreen operator interface. They are designed to run in industrial environments for safe, long term operation. Our pallet dispensers are commonly supplied with our DensiMAX™ bulk bag filling systems but they can be provided as a stand-alone for easy integration into any system. They are ideally suited for operation in a robotic cell.

### Pallet Types and Standard Ranges:

- 4-way pallets
- Wood or plastic
- GMA Standard or CHEP

**Minimum Size:** 40" x 40" x 4" Tall

**Maximum Size:** 48" x 48" x 5" Tall

**Stack Height:** up to 20 pallets (100" stack height)

**Stack Weight:** up to 1,500 pounds

**Dispensing Rate:** 1 pallet every 45 seconds

**Power:** 480V, 3phase, 60 Hz, 24VDC control



Figure 1 - PalletMAX Pallet Dispenser with hydraulic scissor lift for GMA Pallets

Note that these are the standard and most common ranges. Custom sizes and designs are available.

## B. PalletMAX™ Pallet Dispensers and Stackers Standard Mechanical Features

- Heavy duty welded structural steel frame
- Approximate Dimensions: 79" x 71" x 116" tall
- Hydraulic scissor lift with 3 HP, 2 GPM Hydraulic power unit
- Pneumatically actuated pallet dogs
- Automatic discharge dual chain conveyor with ½ HP gear motor
- Preferred Discharge height 24" with adjustable legs (+/- 3")
- Industrial primer and Polyurethane finish

### C. PalletMAX™ Pallet Dispensers and Stackers Standard Electrical Features

- NEMA 4/12 control enclosure
- Lockable 30 Amp fused through-the-door disconnect
- Color touch-screen HMI
- Allen-Bradley PLC control and ethernet communications
- Alarm beacon for fault indication and low pallet warning
- Pallet dog and lift sensors.
- Relay interface for downstream or upstream equipment.



Figure 2 - Control Panel with color touchscreen

### D. Sequence of Operation

For a pallet dispenser, the cycle starts with the operator loading a stack of pallets into the dispenser with a forklift. The pallet dispenser lifts the stack of pallets, and four (4) pneumatically actuated pallet dogs are extended into the second pallet from the bottom of the stack. The scissor lift lowers, separating the bottom most pallet from the stack and setting it on the integral chain conveyor. When needed, the pallet is transferred out of the pallet dispenser and onto an outlet conveyor. Once clear, the scissor lift raises the stack and the pallet dogs are retracted. The scissor lift then lowers again and the pallet dogs are inserted into the second pallet and the cycle repeats. The sequence is reversed for pallet stacking.

Note: Our pallet dispensers are designed for operation in a robotic cell away from personnel. Additional guarding or a protective outer fence can be provided upon request.

### E. PalletMAX™ Custom Options

Many of our pallet dispensers are custom designed to include application specific options. These can include:

- Inlet or outlet conveyors
- Additional guarding
- Safety fence
- Light curtains
- Slip-Sheet dispensers
- Automatic Doors



Figure 3 - Pallet dispenser and slip-sheet dispenser



Figure 4 - Pallet Stacker with outlet accumulation conveyor and automatic doors, painted a custom color.



Figure 5 - Pallet Dispenser with custom guarding and maintenance windows.