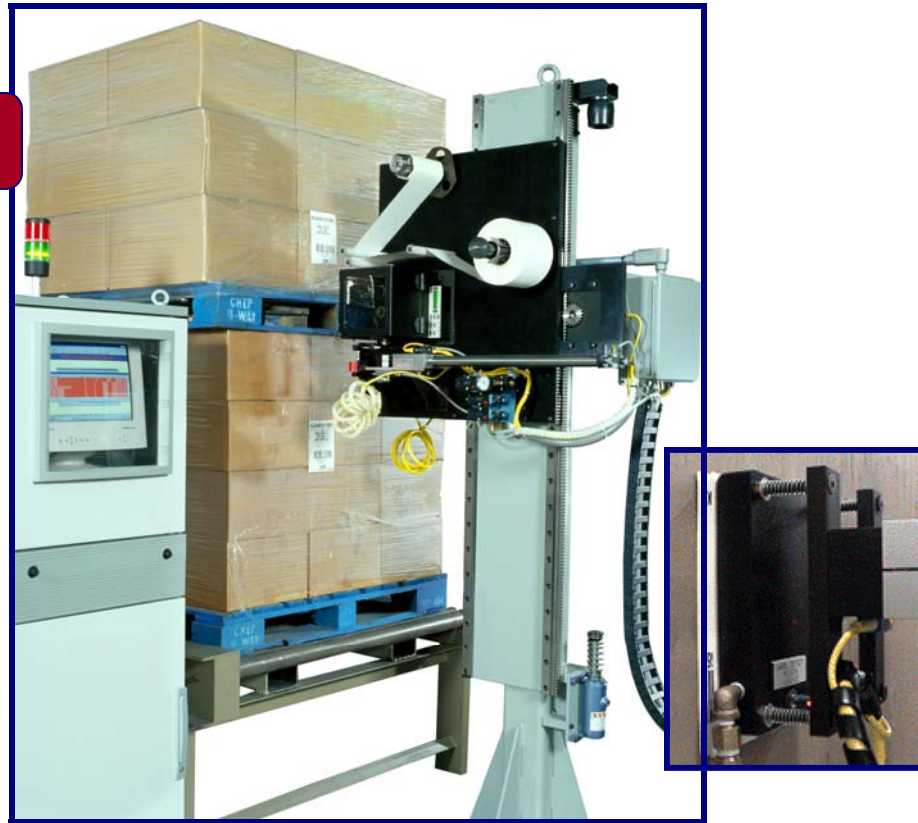

SA1010 AUTO-HEIGHT PALLET LABELER

Patent #
6,672,356



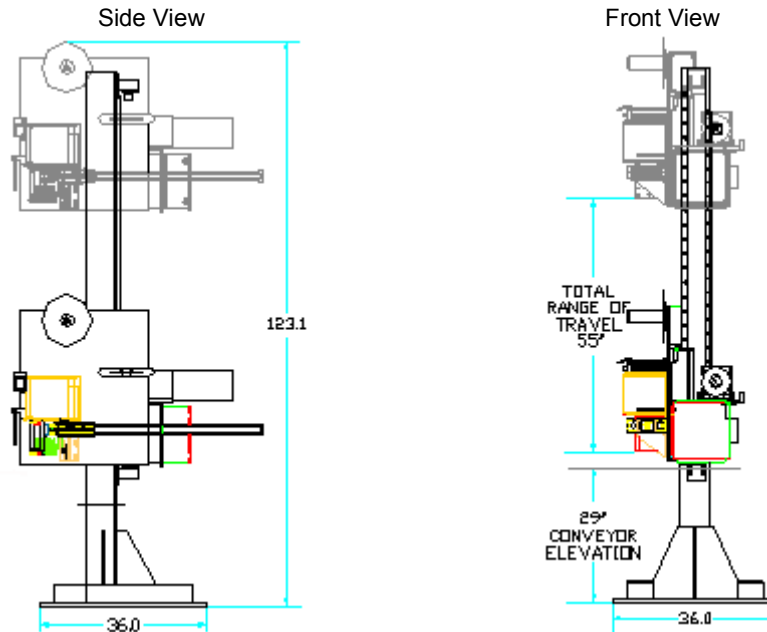
General Description

The SA1010 Auto-Height Pallet Labeler is designed to print and apply labels to the side of a pallet load. The Auto-Height feature allows the labels to be placed on stacked pallet loads by changing the height of the label applicator. The SA1010 can also be programmed to label at a consistent level from the top of varying height loads or avoid labeling seams between layers on random pallet loads.

The machine is controlled by a PLC, which can communicate with the conveyor, stretch wrapper, and palletizer to ensure proper product handling during the labeling sequence. Full diagnostic reports communication tracking are available, making troubleshooting easy. A PC program simplifies the process of managing the label format and database. High caliber commercial parts minimize machine downtime.

The barcode labels are printed with a Zebra™ PAX print engine and are applied to the pallet load by a 24-inch (61 cm) variable stroke slide-cylinder tamp assembly. The spring-loaded tamp-pad adapts to the pallet load surface. The rugged PHD® slide cylinder, along with the heavy-duty stand, the NEMA 12 industrial controls enclosure, and the other high quality commercial parts help ensure that the SA1010 will handle the rigors of 24/7 pallet load labeling.

SA1010 AUTO-HEIGHT PALLET LABELER



Specifications

Size (L x W x H)	36" x 36" x 123" (0.9 m x 0.9 m x 3.1 m)
Electrical	Two 110 VAC, 60 Hz, Single phase, 15 A
Pneumatics	3 CFM (85 Lpm) @ 60 PSI (414 kPa) Clean Dry Air
Labeling Height Range	30" (0.76 m) to 85" (2 m)
Standard Printer	Zebra PAX print engine
Print Resolution	203/300 dpi (8/12 dots/mm)
Print Speed	12.0" (305 mm) per second maximum
Print Width	6.6" (168 mm) maximum
Print Length	10.0" (254 mm) maximum
Label Specifications	12.0" (305 mm) O. D. on 3.0" (76 mm) I. D. cores Die-cut labels with 1/8" (3 mm) space

Options

Custom stroke length or labeling height range available
Customer-specified control system (Allen-Bradley PLC/SLC/CLX, Flex I/O, Modicon, more)
Mounted barcode scanners
18" (457 mm) O. D. on 3" (76 mm) I. D. core label supply
Preprinted label dispenser (SA1011)
Sato, Datamax, Intermec, or other print engines
Customer-specific interface to printer (AS400, Oracle, SAP, more)
RFID printer upgrade for "Smart Label" or EPC™ compliance (SA1010-RF, SA1011-RF)

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SA1010 AUTO-HEIGHT PALLET LABELER

Standard Features	Benefits
Automatic Height Adjustment	Allows labeling of stacked or variable-height pallet loads Rack-and-pinion drive and linear bearing provides smooth and reliable movement for consistent label placement
“Smart” Tamp Applicator	Applies labels to the side of pallet loads “Smart” tamp pad compression sensor adjusts the cylinder reach to the pallet load location Extremely durable – minimizes downtime
Spring-Loaded Tamp Pad	Adjusts to surface variations on the side of pallet loads
“Label on Tamp Pad” Sensor	Helps ensure that a label is printed and the label is applied
PLC Machine Control	Control program can be customized for the application Communicates with other finished product handling equipment Allows for full diagnostics feedback
KLASS Labeling Software on IBM-Compatible PC	Provides template and database flexibility at the labeler Prepares fault and ZPL code reports
Zebra® PAX Printer	High quality thermal transfer printing Easy to maintain or replace
High Grade Pneumatics	Soft-start reduces pneumatic impact during startup On/off controls minimize air usage by the vacuum pad/air assist system
Heavy-Duty Pedestal Stand	Protects machine from damage Provides stable base for printing and labeling
Industrial Safety Components	Wire mesh safety enclosure LEXAN® safety guard around the tamp cylinder NEMA 12 controls enclosure Lockable electrical disconnect and air dump valve
Status Light Stack	Provides a quick visual monitor for the operator
Media Status Indicators	Low-level and media fault detection minimizes downtime

Labeler with Wire Mesh Safety Enclosure

