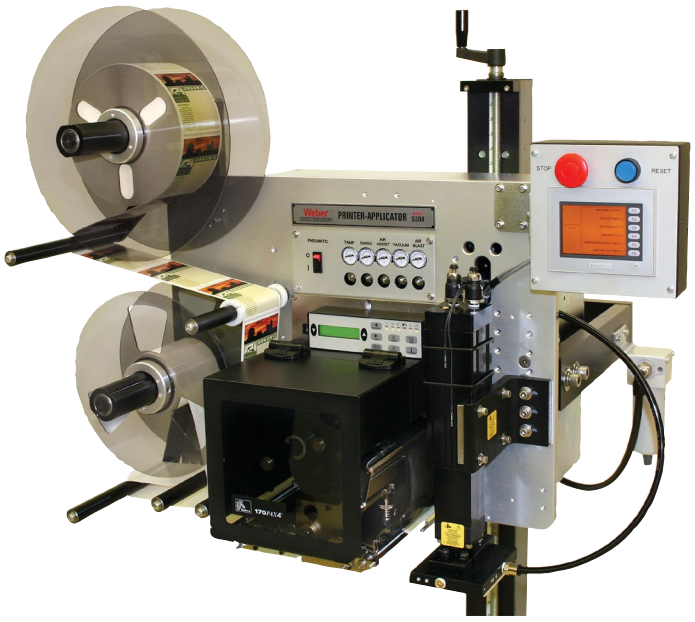
Model 5300

Label Printer-Applicator

Overview



Special Features

- Modular design provides eight different application configurations
- Monitor operation via a web browser
- One-to-one media consumption reduces downtime
- Numerous I/O's ease interfacing with external devices
- Available with RFID capability

Weber's Model 5300 system is redefining the meaning of versatility in pressure-sensitive label printing and application.

In addition to offering a broad selection of high-quality print engines that feature various print resolutions and label dispensing rates, the Model 5300 system is available with optional RFID print-encode engines.

Standard direct- and thermal-transfer print engines from manufacturers Zebra, SATO and Datamax produce text, bar codes and graphic images at 203, 300 or 600 dpi. The Zebra-based RFID models combine these printing capabilities with the encoding and verification of RFID inlays to meet EPC Gen 2 protocols.

The Model 5300 system's print engines output labels up to seven inches wide and up to six inches long. To keep pace with high-volume, high-speed production lines, compatible print speeds vary from two to 16 ips.

Modular Design

The Model 5300 printer-applicator system's modular design provides one standard system, yet a choice of eight distinct methods of label application that are accurate to ±0.03 inch:

- **Tamp-blow.** This is a very popular method of air-assisted label placement used with standard applications, and is particularly useful in the labeling of recessed areas. A printed label is fed onto a tamp pad and held by vacuum, a pneumatic cylinder extends to within .25 inch of the product, and the label is blown onto its surface.
- **Air-blow.** Another air-assisted process. The label is blown onto the product from a fixed distance without the aid of a pneumatic cylinder.
- **Direct tamp.** This method is similar to tamp-blow, but the flexible tamp pad makes direct contact with the product during application.
- **Swing-tamp.** Labels are applied to the front or back of a product using a 90-degree swing arm applicator and tamp-blow technology.
- **Twin-tamp**. Special rotary arm enables the application of two labels to the front and side of a product; or side and back; or one label can be placed on the front, side or back of an item using tamp-blow technology.
- **Corner-wrap.** One label is wrapped around the corner of a case using an articulating, contact method of application.
- **Dual-label**. For the printing and two-label, adjacent side labeling of pallets in line.
- **Electric tamp-blow.** Electrically-operated cylinder extends to the product and the label is blown onto its surface. Ideal for very high-speed labeling.

In addition, an optional secondary label wipe-down station is available as a complement to any of the above application methods. Quick-change tamp pads also may be ordered to accommodate various label sizes.

The Model 5300 system's modular design ensures that the system can be reconfigured to address subsequent print-and-apply labeling requirements. This modularity can preclude the future acquisition of an additional printer-applicator.

Special Features & Options

The Model 5300 system includes a number of noteworthy features that add to the operational versatility of this printer-applicator:

- **Browser-based monitoring.** The status of all operational functions and configurations can be monitored by logging on to a web page that is unique to each Model 5300 unit.
- **Numerous I/O's.** The system can be interfaced with many types of external devices.
- **One-to-one media consumption.** Special label unwind and rewind dimensions are matched to the system's ribbon supply to ensure they are consumed at the same rate, reducing downtime and eliminating partial changeovers.
- **Print job storage.** Multiple label printing formats can be stored in the system's memory, making it easier for an operator to select a job directly from the applicator instead of downloading a computer file.

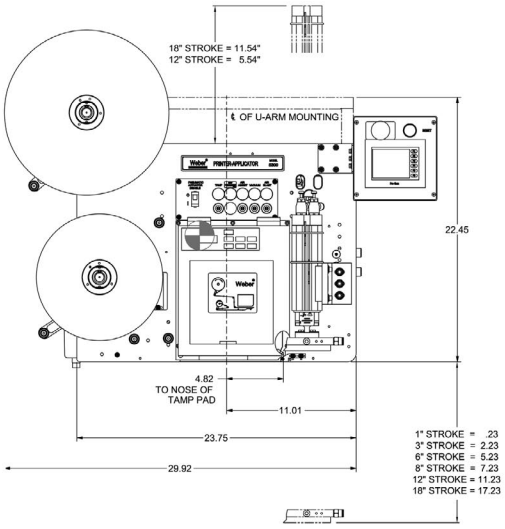
The Model 5300 system boasts numerous additional features as well, including a microprocessor controller with downloadable firmware capability, various inputs/outputs, plus durable construction that will withstand harsh industrial environments.

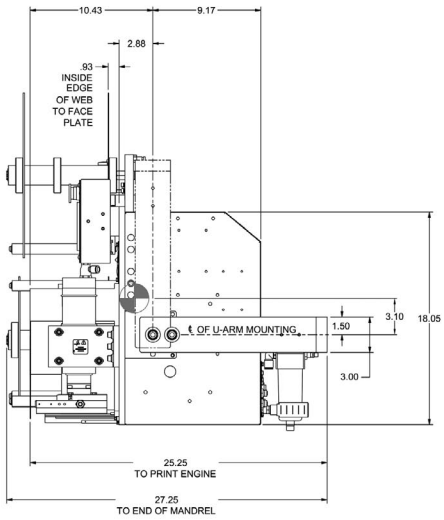
There also are several optional enhancements that can increase the system's functionality. A product height sensor, for example, enables the printer-applicator to label items of varying heights delivered by the same conveyor. Other options include a 15-foot umbilical connection that enables the remote location of the unit's controller; an adjustable stand for optimum system orientation; label-on-pad sensor for added functionality; plus beacon light alerts to signal the status of label and ribbon supplies.

Weber®
Labels & Labeling Systems

Model 5300

General Specifications





Dimensions
29.9"L x 27.25"W x 28.25"H
(75.9cm x 69.2cm x 71.28cm)

Weight
174 lbs. (78.8kg)

Electrical
115 VAC, 60 cycle, 5 amps; overload protection built in; 220 VAC, 50 cycle optional

Environmental
41-104°F (5-40°C); humidity 15-85% RH non-condensing

Communication Interface
RS-232-C; Centronics compatible

Air Requirements
3 cfm at 90 psi

Product Sensing
Photoelectric

Processor
Rabbit 3000 Microprocessor

Printing Methods
Direct-thermal and thermal-transfer

Print Resolution
203, 300 or 600 dpi, depending on print engine selected

Print Width
- Zebra 112*: 4.1" (104mm)
- Zebra 113*: 4.2" (107mm)
- Zebra R112 RFID: 4.1" (104mm)
- Zebra R113 RFID: 4.2" (107mm)
- Zebra 172: 6.6" (167.6mm)
- Zebra 173: 6.6" (167.6mm)
- SATO 8460SE: 6.0" (152.4mm)
- SATO 8485SE: 5.0" (127mm)
- SATO 8490SE: 4.4" (112mm)
- SATO S84 Series: 4.09" (104mm)
- Datamax A-4212: 4.094" (104mm)
- Datamax A-4310: 4.161" (105.7mm)
- Datamax A-4606: 4.157" (105.6mm)
- Datamax A-6212: 6.614" (168mm)
- Datamax A-6310: 6.401" (162.6mm)

Print Speed & Resolution
- Zebra 112*:
Up to 12.0" per second (305mm) @ 203 dpi
- Zebra 113*:
Up to 8.0" per second (203mm) @ 300 dpi
- Zebra 112R RFID:
Up to 12.0" per second (305mm) @ 203 dpi
- Zebra 113R RFID:
Up to 8.0" per second (203mm) @ 300 dpi
- Zebra 172:
Up to 12.0" per second (305mm) @ 203 dpi
- Zebra 173:
Up to 8.0" per second (203mm) @ 300 dpi
- SATO 8460SE:
Up to 8.0" per second (203mm) @ 203 dpi
- SATO 8485SE:
Up to 12.0" per second (305mm) @ 203 dpi
- SATO 8490SE:
Up to 8.0" per second (203mm) @ 300 dpi
- SATO S84 Series:
Up to 16", 14" or 6" per second (406mm, 355.5mm, 152.4mm) @ 203, 300 or 600 dpi
- Datamax A-4212:
Up to 12.0" (305mm) per second @ 203 dpi
- Datamax A-4310:
Up to 10.0" (254mm) per second @ 300 dpi
- Datamax A-4606:
Up to 6.0" (152mm) per second @ 600 dpi
- Datamax A-6212:
Up to 12.0" (305mm) per second @ 203 dpi
- Datamax A-6310:
Up to 10.0" (254mm) per second @ 300 dpi

Label Width Range
- Zebra 112*:
Max 4.5" (114mm); Min 0.63" (16mm)
- Zebra 113*:
Max 4.5" (114mm); Min 0.63" (16mm)
- Zebra 112R RFID:
Max 4.5" (114mm); Min 0.63" (16mm)
- Zebra 113R RFID:
Max 4.5" (114mm); Min 0.63" (16mm)
- Zebra 172:
Max 7.1" (180.34mm); Min 3.0" (76.2mm)
- Zebra 173:
Max 7.1" (180.34mm): Min 3.0" (76.2mm)
- SATO 8460S:
Max 6.5" (165.1mm); Min 1.0" (25.4mm)
- SATO 8485SE:
Max 5.25" (133.3mm); Min 1.0" (25.4mm)
- SATO 8490SE:
Max 5.25" (133.3mm); Min 1.0" (25.4mm)
- SATO S84 Series:
Max 5.1" (129.5mm); Min 0.5" (12.7mm)
- Datamax A-4212:
Max 4.65" (118mm); Min 1.0" (25mm)
- Datamax A-4310:
Max 4.65" (118mm); Min 1.0" (25mm))
- Datamax A-4606:
Max 4.65" (118mm); Min 1.0" (25mm)
- Datamax A-6212:
Max 6.7" (170mm); Min 2.0" (50mm)
- Datamax A-6310:
Max 6.7" (170mm); Min 2.0" (50mm)

**RFID Upgradeable Models*

Label Roll Size
Maximum diameter 13.75" O.D. (350mm)

Labeling Speed
Contingent upon print engine and label size/content

Label Placement
Accurate to ±0.03" (.76mm) when labels are produced to specifications and product handling is controlled and consistent

Labels
Die-cut, waste removed with 0.125" (3mm) minimum separation between labels in running direction and 0.125" (3mm) maximum web over label width; direct or thermal-transfer

Labeling Software
Weber Legitronic® software

Print Characters & Bar Codes
Text: Selection of fonts, including OCR-A & B representation

Bar Codes: UPC-A/E, EAN-8/13, Code 39, I 2 of 5, Code 128, Codabar, MSI, 2 of 5, Code 93, UPC Bookland, Matrix 2 of 5, Postnet, UCC/EAN 128, PDF-417, Maxicode, Data Matrix

(Text and bar codes can be rotated 360 degrees; horizontal and vertical character expansion)

Optional Features
- Adjustable Stand
- Quick-change tamp pad
- RFID upgradeable print engine**
- Label-on-pad sensor
- Product-presence sensor
- Beacon alert lights

*** Zebra 112 & 113 only*