

PLS-400 series



Advanced labeling systems designed for integration, logic control and RFID-EPC "smart label" encoding

Paragon's PLS-400 series offers high-quality and cost-effective solutions for apply-only or print-and-apply labeling of products, cartons, cases, and pallets. It is an outstanding choice for labeling applications requiring logic control and integration within an open architecture environment. A remote, machine-mountable PLC display makes changing system programs and application logic sequences easy, efficient, and secure.

Standard features include:

- PLC controls
- Remote mount interface and display
- Built in counters
- Built in diagnostics mode
- Built in label set up recipes
- External I/O interface connection
- Standard product detect
- Robust plate aluminum design
- Stainless steel fasteners
- Low supply warning
- Easy 7-module design
- Migration path to RFID

Paragon PLS-410

The PLS-410 is a robust apply-only label applicator, providing all the powerful PLS-400 chassis features for applications using pre-printed labels. Should your needs change in the future, simply remove the patented Express module and replace it with the OEM print engine of choice to upgrade to a PLS-420 printer applicator, or install the RFID module of choice and upgrade to a PLS-430 or PLS-440.

Paragon PLS-420

The PLS-420 is a durable print-and-apply labeler that produces labels on demand and applies them in a single, easy operation. Expanding on "next-off" technology, the PLS-420 uses every label and eliminates waste. It accommodates most any label size and prints sequential numbers, time/date stamps, lot codes, expiration dates, bar codes, human readable text, graphics, and more.

Paragon PLS-430

The Paragon PLS-430 is an *Encode & Apply*™ system that integrates RFID technology with all the benefits of the PLS-400 chassis system. The PLS-430 includes a fully integrated reader with antenna for verifying, encoding, re-verifying and then applying labels to pallets and cases. Any tag that is not verified remains on the waste liner, and the next tag moves into position for verification. The PLS-430 lets you encode and apply RFID labels now, and provides a clear migration path to Print, Encode & Apply should your application change.

Paragon PLS-440

The PLS-440 enables you to program RFID tags and print variable data to smart labels on-demand. Like the PLS-430, the PLS-440 verifies the tag prior to application. The system rejects any label with a bad tag, and forces the label to remain on the waste liner. The label is then reproduced with a good tag.

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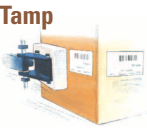




Modularity. Integration. Performance.

PLS-400 specifications

Print Method:	Direct thermal and thermal transfer
Media Supply:	12" (306mm) maximum outside diameter on 3" (76mm) standard core
Media Rewind:	Roll to roll with full carrier rewind capacity
Low Media Supply Sensing:	Standard detection and signal output when label and ribbon supplies are low or print interruption occurs
Print Engines:	Sato America, Inc., Zebra Technologies, Inc., and Datamax Corporation
Product Detect Sensor:	Standard photo-electric product sensor; operator adjustable delay between product detect and label application
Product Labeling Accuracy:	Up to 1/32" with consistent labels and controlled product handling
Air Requirements:	40-60 PSI, 2-6cfm (dependent upon applicator), clean, dry, non-oiled
Power Source:	115, 230 VAC, 50/60 Hz
Operating Temperature:	40°F to 100° (4°C to 38°)
Humidity:	10% to 95%, non-condensing
Machine Construction:	Plate aluminum chassis
Dimensions (Chassis):	26" L x 26" H x 15" D (660mm L x 660mm H x 381mm D) or 26" L x 26" H x 17" D (660mm L x 660mm H x 432mm D) dependent on print engine
Weight:	80 lbs (35.7 kg) to 87 lbs (38.8 kg) depending on print engine



Options:	Bolt on 16" powered unwind mechanism	Alert light (3-stack)
	T-base stand: Many styles available	Dual product sensing
	Applicator home detect	Cycle complete output
	Label on pad sensor	

Applicator Module	Label Width*	Label Length*	Accuracy**	Speed***	Typical Applications	Labeling Configurations
Tamp 	.5" min. (13mm) to 7" max. (178mm)	.25" min. (6mm) to 12" max (306mm)	Up to +/- 1/32" (.79mm)	Up to 175 ppm for apply only; up to 120 ppm for print and apply	Cases, cartons, and packaged goods	Top, bottom, or side panels
Dual Tamp 	2" min. (51mm) to 7" max. (178mm)	2" min. (51mm) to 8.5" max (217mm)	Up to +/- 1/32" (.79mm)	Up to 20 ppm for apply only; up to 20 ppm for print and apply	Pallets, cases, and cartons	Custom-selectable as a leading and adjacent panel application; or, a side and rear panel
Roll On 	.5" min. (13mm) to 7" max. (178mm)	4" min. (102mm) to 14" max (357mm)	Up to +/- 1/32" (.79mm)	Up to 200 ppm for apply only; up to 100 ppm for print and apply	Cases, cartons, and packaged goods; well suited for long skinny labels	Top, bottom, or side panels
Corner Wrap 	2" min. (51mm) to 7" max. (178mm)	6" min. (153mm) to 16" max (408mm)	Up to +/- 1/32" (.79mm)	Up to 35 ppm for apply only; up to 25 ppm for print and apply	Cases and cartons	Leading and adjacent panels
Vacuum Blow 	.5" min. (13mm) to 4" max. (102mm)	.5" min. (13mm) to 4.5" max (115mm)	Up to +/- 3/32" (2.37mm)	Up to 200 ppm for apply only; up to 120 ppm for print and apply	Irregular and/or fragile products, packaged goods, cases, and cartons	Top, bottom, or side panels
Wipe On 	.5" min. (13mm) to 7" max. (178mm)	.5" min. (13mm) to 12" max (306mm)	Up to +/- 1/32" (.79mm)	Up to 200 ppm for apply only; not recommended for print and apply	Irregular and/or fragile products, packaged goods, cases, and cartons	Top, bottom, or side panels

*Dependent upon print engine (Sato, Zebra and Datamax)

**Dependent upon product handling and uniformity

***Dependent upon print engine, label size, applicator length, and data communication; RFID speeds and feeds subject to change based on encode and encrypt time

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