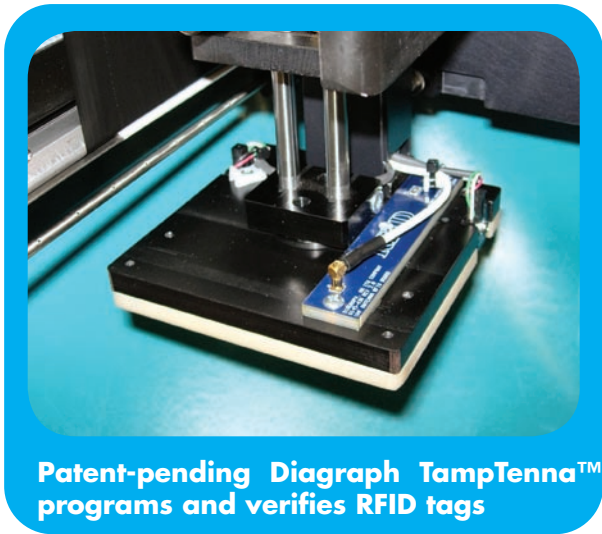


PA/5000LT™ RFID label printer/applicator



Patent-pending Diagraph TampTenna™ programs and verifies RFID tags

features & benefits

- Wal-Mart®, DOD, Target ready 915 MHz EPC Class 1 Gen 1 & 2 tag programming
- TampTenna programs tags on tamp while stationary or in transit, then verifies tags on product once applied
- Incrementing serial numbers without need for PC
- Single data stream for format and RFID information
- Communicates with factory PLCs using standard discrete I/O to convey status conditions, read rates and good/bad tags
- Rugged design for harsh environments and 24/7 operation
- Firmware easily upgraded in the field as standards evolve
- Upgrade new and existing PA/5000LT system anytime
- Antenna location can be optimized for tag profile

The Industry's First Tamp Pad Antenna!

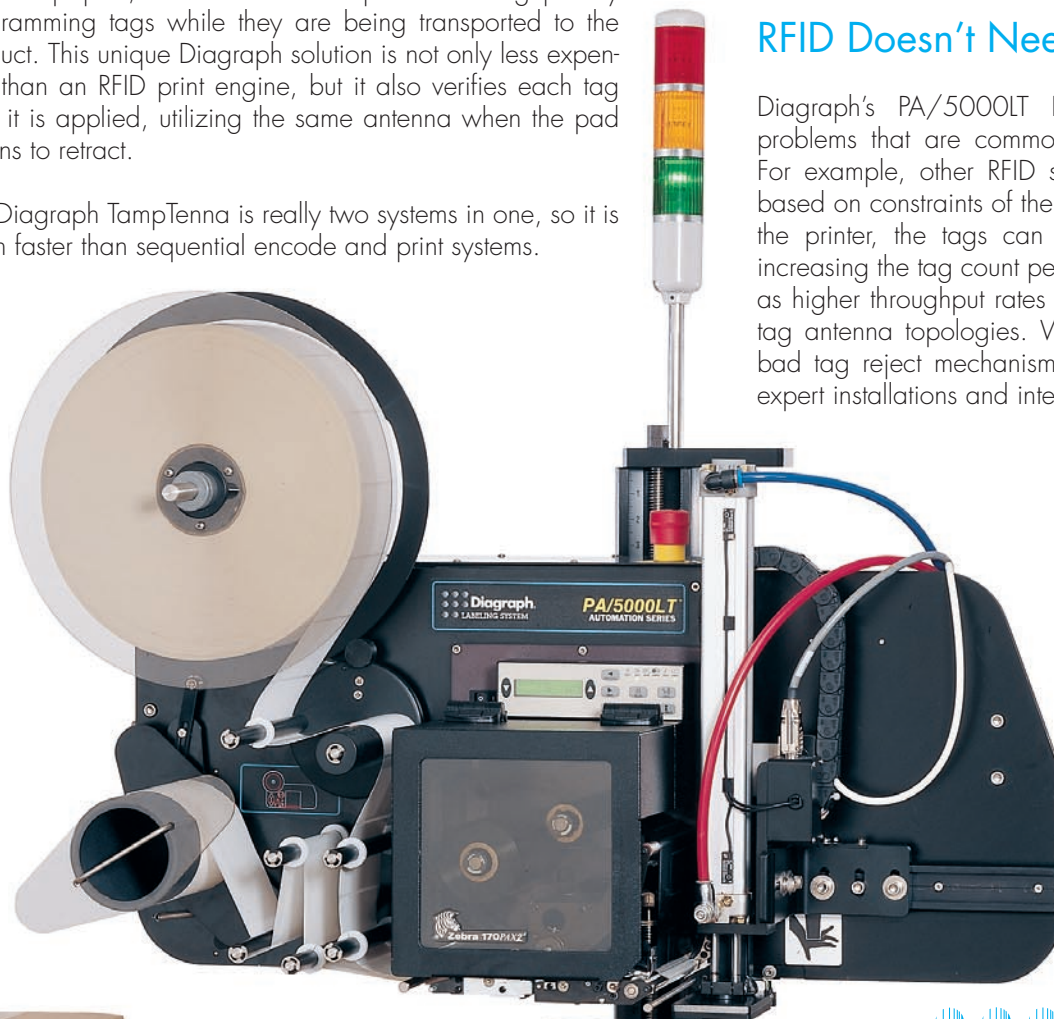
In addition to OEM RFID engine solutions, only Diagraph can offer an upgrade anytime with our exclusive TampTenna™ RFID tamp pad, which maximizes product throughput by programming tags while they are being transported to the product. This unique Diagraph solution is not only less expensive than an RFID print engine, but it also verifies each tag after it is applied, utilizing the same antenna when the pad begins to retract.

The Diagraph TampTenna is really two systems in one, so it is much faster than sequential encode and print systems.

RFID

RFID Doesn't Need to be a Bottleneck!

Diagraph's PA/5000LT RFID solution eliminates speed problems that are common with most other RFID systems. For example, other RFID systems are limited in throughput based on constraints of the RFID printer. By encoding outside the printer, the tags can be placed closer together, thus increasing the tag count per roll. This has other benefits, such as higher throughput rates and a wider array of compatible tag antenna topologies. We offer total solutions, including bad tag reject mechanisms, fixed readers, RFID tags, and expert installations and integrations.



FAST! The PA/5000LT system can print, encode, apply and verify over 100 PPM with confidence that only good tags are on your product

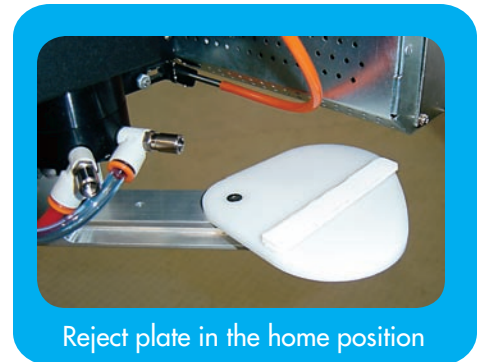
PA/5000LT™ RFID specifications

label printer/applicator

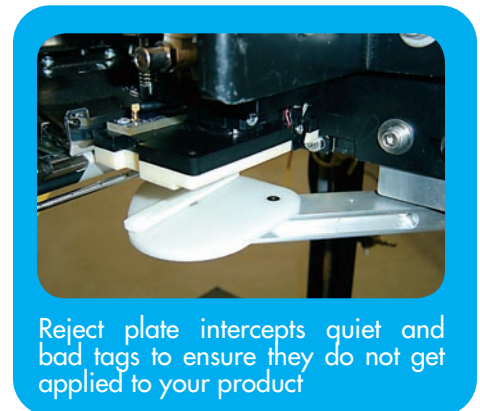
System Type:	EPC global UHF (915 MHz) 0.5 watt RFID engine
Supported OEMs:	Sato®, Zebra®, Datamax®
Supported Tag Types:	Class 1 Gen 1 Class 1 Gen 2, Class 0+
TampTenna™ Application Rate:	80 PPM with 4" long label, 2" stroke, 12 ips 65 PPM with 6" long label, 2" stroke, 12 ips 110 PPM with 0.5" on-pitch tag, 2" stroke, 12 ips
TampTenna Features:	<ul style="list-style-type: none"> • Program tags outside printer for fastest rates • Can program on extension stroke for minimum delay • Higher-power, focused antenna that is outside of metal, energy-absorbing printer components • Same antenna verifies tags on product and can trigger reject mechanism if tag cannot be read. No extra antennas, mounts or readers are required to verify integrity of applied tags.
System Features:	<ul style="list-style-type: none"> • RFID engine firmware field-upgradable • Optional reject plate to discard quiet and bad tags
Diagnostic Capabilities:	<ul style="list-style-type: none"> • Results of programming and verification are displayed while running • Counters for good, bad, and verified tags • Reader mode to view tag data for troubleshooting
Interfacing:	<ul style="list-style-type: none"> • Standard RS232/422/485 serial ports to input label formats with embedded RFID data and download firmware upgrades • Ethernet available • Built-in discrete I/O module to signal good/bad tag, reject tag, machine error, RFID engine malfunction, system online, and many other status conditions

Sato®, Zebra®, and Datamax® are trademarks of their respective companies. Diagraph® and the PA/5000LT™ are trademarks of Diagraph.

Heavy Duty Reject Plate discards bad tags using either tamp or tamp-blow with heavy duty bearing housing pivot



Reject plate in the home position



Reject plate intercepts quiet and bad tags to ensure they do not get applied to your product

Diagraph RFID Philosophy...

We create unique systems that provide integrated, seamless solutions for our customers with circuit designs that focus attention on expandability and upgradability. By utilizing these strategies, we have successfully integrated an OEM RFID module, designed our unique RFID solution and overcome the challenges of metallic interferences. Because of Diagraph's approach to RFID technology, we have designed a system that complements standard OEM offerings. Our solutions are often imitated, but never duplicated.

For more information on all Diagraph products, complete specifications, labeling consumables and service, please visit our website:

www.diagraph.com

 **Diagraph®**
An **TW** Company

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