DCS & Labeling Worldwide

SATO FlagTagSolutions™

The UHF Label for all Product Requirements

One Tag for All Applications

The ***FlagTagSolution™*** allows customers to benefit from industry-leading RFID read and write performance by using low cost labels embedded with UPM Rafsec inlays, to encode, verify, and print the UPM Rafsec FlagTag™ in SATO RFID printers.

Different Content & Packaging Materials

Radio waves can be subject to interference. Metal, liquid products, consistency of goods or the packaging material may influence the performance of an UHF Tag. Sometimes this can lead to a shorter read distance or to the changing of frequency, so no reading of the tag is possible.

Different Types of Tags

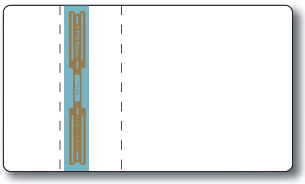
Every company that will use UHF technology, needs to look for a tag that takes into account the different requirements and limitations of the goods and packaging.

SATO UNIQUE Solution: One Tag for All

The *FlagTagSolution™* can be used on pallets, cases, metal drums, liquids, or aluminum cans without compromising read performance. SATO and UPM Rafsec developed a unique (Patented) UHF label, FlagTag with the ability to perform in virtually any UHF RFID application.

Two SATO FlagTagSolutions™ Available

2 perforations



For manual "slap & ship" applications using the SATO CL408*e* UHF Printer, a FlagTag label with two perforations allows for easy folding, creating the "flag" to be applied onto pallets and cases.

3 perforations

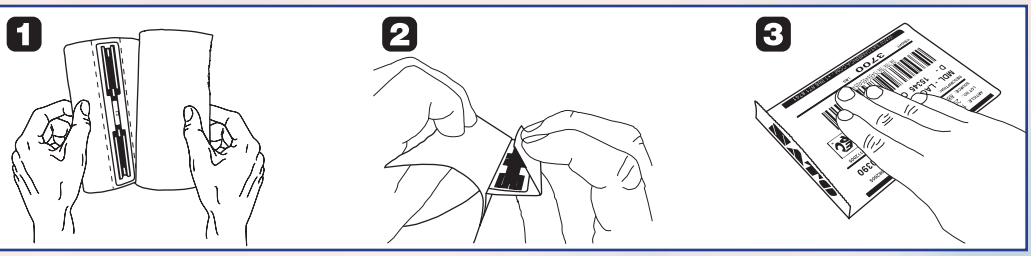
SATO's **print & apply** FlagTag solution is designed for use with the M8485Se-RFID print engine and SATO's patented FlagTag application head. This fully automatic solution uses the FlagTag with three perforations, which allows automatic folding of the FlagTag in the print & apply or slap & ship process. Print and apply systems utilizing SATO's unique FlagTag label and application head are available from authorized SATO OEM print engine integrators.

Pallet-Labeling with SATO Printer and FlagTag

The ***FlagTagSolution***™ is designed to be used with the SATO CL408e on-demand, RFID-enabled printer, as well as SATO's RFID S-Type print engine for automated print and apply solutions.

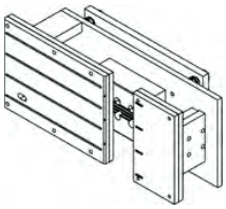
SATO FlagTagSolutions™ As Easy As 1 • 2 • 3

Application of FlagTags is easy as 1 • 2 • 3. Just remove the part of the label with the RFID antenna, fold over at the perforated line and the label is ready to apply!



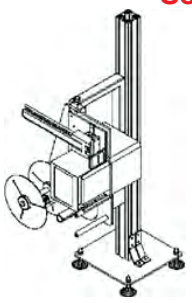
SATO Patented FlagTag Applicator

SATO's patented FlagTag applicator tamp pad is specifically designed for automatic print & apply applications. This patented tamp pad assembles and applies a RFID FlagTag after it is encoded, verified & printed on a SATO RFID S-Type print engine. The FlagTagSolution™ integrated in RFID label applicators provides free air-like RF performance for RFID case and pallet labeling.

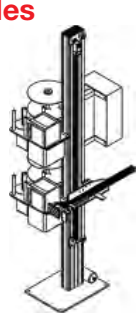


SATO Patented FlagTag Applicator Head

Automatic Print & Apply Solutions Examples



Single Applicator



Dual Applicator

SATO RFID OEM Engines

- ✓ High Speed Throughput
- ✓ 900 MHz (UHF) RFID Labels
- ✓ Heavy Duty Durability
- ✓ Easy Connectivity
- ✓ Powerful Memory
- ✓ Windows® Compatible

Print Method	Direct Thermal / Thermal Transfer
Resolution	203 dpi
Standard Memory	Standard: 16 MB RAM / 2 MB Flash Optional: 1 MB PCMCIA / 6 MB Flash
Max. Print Width	5" (128 mm)
Max. Print Length	49.2" (1249 mm)
Min. Media Width	1" (25 mm) w/o RFID inlay; Varies with RFID inlay
Max. Media Width	5.27" (134 mm)
Max Print Speed	12"/sec (300 mm/sec)
Interface	RS232C Serial, IEEE1284 Parallel (ECP), 10/100BaseT Ethernet, Wireless 802.11b, Twinax/Coax, RS422/485, USB Adapter
Protocols	UHF

SATO CLe RFID Printers

- ✓ RFID Labelling
- ✓ 900 MHz (UHF) RFID Labels
- ✓ Heavy-Duty Industrial Construction
- ✓ Industry Leading Throughput
- ✓ Easy Connectivity
- ✓ Windows® Compatible

Print Method	Direct Thermal / Thermal Transfer
Resolution	203 dpi / 305 dpi
Standard Memory	Standard: 16 MB RAM / 2 MB Flash Optional: 1 MB PCMCIA / 6 MB Flash
Max. Print Width	4.1" (104 mm)
Max. Print Length	49.2" (1249 mm) / 32.8" (833 mm)
Min. Media Width	.87" (22 mm)
Max. Media Width	5.1" (131 mm)
Max Print Speed	6"/sec (150 mm/sec)
Interface	RS232C Serial, IEEE1284 Parallel (ECP), 10/100BaseT Ethernet, Wireless 802.11b, Twinax/Coax, RS422/485, USB Adapter
Protocols	UHF & HF (multi protocol)

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