



# TRANSPORTATION & LOGISTICS SOLUTIONS

IDENTIFY AND TRACK ASSETS, PEOPLE AND TRANSACTIONS



TRANSPORTATION  
& LOGISTICS



# Identify and Track Assets, People and Transactions

Barcodes are used extensively in the transportation and logistics business because of their capability to eliminate human error and expedite the data capture process. With a barcoded or RFID label, automatic sensors can direct the pallet, carton, or baggage through the transportation process without human intervention, reducing errors and optimizing processes.

## Benefits of SATO's Transportation & Logistics Solution

### Identification & Tracking

Captures data, identifies and keep track of goods.

### Traceability

Identification enables tracking, which enables traceability, and helps to provide real-time access to critical data throughout the process.

### Meets All Your Compliance Labelling Requirements & Standards

### RFID Ready Printing Solution

Empowers you to manage barcode requirements today, while supporting expanding RFID requirements without needing to change the entire infrastructure.



## Where In The Transportation & Logistics Process Can You Benefit From The SATO Solution

### LOGISTICS

The warehouse or distribution centre will typically receive items that it stores until they are ordered by customers – wholesalers, retail stores or even individual buyers. Operators are focused on managing their part of the supply chain for the most efficient, forward-and-reverse flow and storage of goods. Application of barcode and RFID technologies help them achieve that. They enable the accurate identification of every pallet and carton, and even item, and provide real-time order-to-delivery visibility while enabling effective ways to track and trace throughout the logistics process.

### WAREHOUSING & DISTRIBUTION MANAGEMENT

SATO's printing solutions integrate seamlessly with your Warehouse Management Systems (WMS). The solutions incorporate data collection and wireless communication functionality to facilitate real-time awareness of the location, amount, origin, destination and schedule of inventory. It involves accurate inventory track and tracing from storage to sorting and consolidation area. Misplaced inventory is eliminated with the improved management or order picking and putaways.

Typically, the warehouse operators would initiate the order-picking process by scanning a barcode, which gives them a work assignment. The picking staff will scan location barcode labels to confirm exact location. Once an operator has finished picking a work assignment, each pallet is put together and labelled appropriately and then staged for shipment. The accurate order-picking also allows optimization of space, including the vertical dimensions of the warehousing facilities.

### REVERSE LOGISTICS

Reverse logistics operations are sometimes more complex because of the shipping and packing compliance requirements on top of the large number of items moving to and forth. Such operations clearly benefit from automatic identification and real-time visibility.

Stringent regulations increasingly require traceability information to demonstrate safe handling and hazardous material handling. The wireless capabilities of SATO integrated printing solutions enable identification and verification of information for staff to properly and safely handle every piece of inventory.



### CROSS DOCKING

Cross docking is sometimes used to save time in the receiving and redistribution process. The SATO Solutions help minimize shipment handling errors. The receiving workers as they receive inbound shipments, log them into the inventory control application and then use the mobile printer to immediately generate a barcode shipping label with the required cross dock information. Accurate, point-of-activity labelling facilitates the flow of goods movement, and eliminates the need for manual, error-prone processes.

SATO also provides users with the tools for visibility and operations transparency to meet demands of reverse logistics operations, which are complex because of the number of items moving to and forth and shipping and packing compliance requirements.

### CONTAINER MANAGEMENT

Many industries employ reusable containers to carry finished goods and parts through the supply chain. These containers may be pallets, plastic boxes, larger metal and plastic containers and canisters for gases and liquids among others. The use of such containers is typically not managed efficiently: users have more containers than they need, and yet not enough when they need them. Knowledge of where containers are at any time and how to find the closest containers for a particular need can both cut the number of containers used in a business and also eliminate problems created by shortages of containers. SATO ticks all the right boxes on solution requirements: to help with your container management needs.

### YARD OPERATIONS MANAGEMENT

The SATO Solutions provide carriers with identification, and track and tracing tools for effective yard management solutions. The total solution equips companies with the capabilities to optimize asset utilization for operational efficiency. It helps to minimize time involved in yard checks, equipment searches, and lost equipment with time and date verification. SATO has the experience from its leading role in multiple RFID solution deployments worldwide to help harness the powers of RFID technologies, which can be leveraged to help search and identify items through the great number of pallets in shipping yards and having to scan barcodes and read serial numbers one at a time.

### PICK-UP & DELIVERY

SATO Transportation & Logistics Solution can be relied on to ensure shipments are delivered on time and without damage. Automatic data collection and label printing ensure accurate tracking of pick-ups and timely proof of delivery through the supply-chain process. Users can in turn improve the service they provide to their customers with improvement in their load and route planning and enhancements to drivers' productivity to help them handle more shipments.

## Applications

- Cargo Tracking
- Freight Management – Truckload and Less – Than Truckload
- Inventory Control
- Pallet, Case & Tote Tracking
- Passenger Transport, Baggage Tracking
- Pick-up & Delivery
- Route Accounting
- Warehousing & Distribution Management
- Yard Management





The SATO Transportation & Logistics Solution has all the components to meet your identification, data collection and labelling needs, to enable you to identify and trace goods, people and transactions through the distribution process.

#### Labelling Solutions

General labels in industry-compliant formats and custom-made labels; tags; carbon ribbons; RFID labels & tags; specialty labels & tags, e.g. DuraMark™ wristbands, horticulture labels & tags, FlagTagSolution™, linerless labels among others.

#### Scanning Equipment & Terminals

SATO Solution always selects the most suitable option of scanning equipment and terminals to uniquely meet your identification and data collection needs.

#### Software & Applications

SATO Label Gallery™ labelling software solution offers a scalable and versatile set of tools to meet all labelling design and printing needs.

#### Integration Services

Integration of printers and hardware components to your back-end enterprise system or related business applications. Application development & system deployment. We also provide consulting services, which starts with an unequivocal, rigorous understanding of the users' environment, unique challenges and organizational objectives. We then plan and select the solution set that ensures seamless integration and timely implementation.

#### Maintenance Services

Printer servicing, installation, repair & maintenance services conveniently provided by readily-available expert SATO service staff or SATO-trained intermediaries worldwide.

#### Printing Solutions

Mobile printing solutions with wireless options ideal for efficient delivery operations – ruggedized printer versions for extra protection. Rugged industrial printing solutions, with RFID functionality, to help keep freight management operations on time and on track. Industrial-grade and desktop printers can interface with WMS and ERP systems to provide real-time information visibility and simplify warehouse and inventory operations. SATO's printing solutions also help minimise time-consuming yard checks, tracks outgoing and incoming equipment, and maximises asset utilization.

- **Mobile & Portable Printers: 2- & 4-inch**  
Worn at the waist, strapped over the shoulder, or vehicle-mounted, they combine convenience and durability to meet the efficiency requirements of your mobile printing needs.
- **Industrial Printers: 4- & 6-inch**  
The various models are suited for a wide range of industrial applications, environments and requirements, from common industrial applications to applications that demand mission-critical performance and ruggedness, to seamless integration into enterprise systems and applications.  
  
Rich set of options, including wide range of interface connectivity and RFID options.
- **Print Engines: 4- & 6-inch**  
Designed for easy integration into automatic print/apply systems, all components of these high-duty cycle engines are selected for reliable performance over extended periods of time. RFID options available.
- **Commercial Desktop Printers: 4-inch**  
Compact and versatile, their feature-rich designs make them suitable for applications in healthcare, logistics and food processing. RFID options available.



**Contact** For more information about SATO around the globe, visit [www.satoworldwide.com](http://www.satoworldwide.com)

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