GHS Label Printing Solution

SDS	**Host system**	
SDS	**Manufacturing management** — Register manufacturing instructions	**Master management**

Linked data files

SDS	Printing schedule	Master

GHS label printing system

Printing information

Master information

Print labels • Print GHS labels	**Master management** • Product master • Operator master
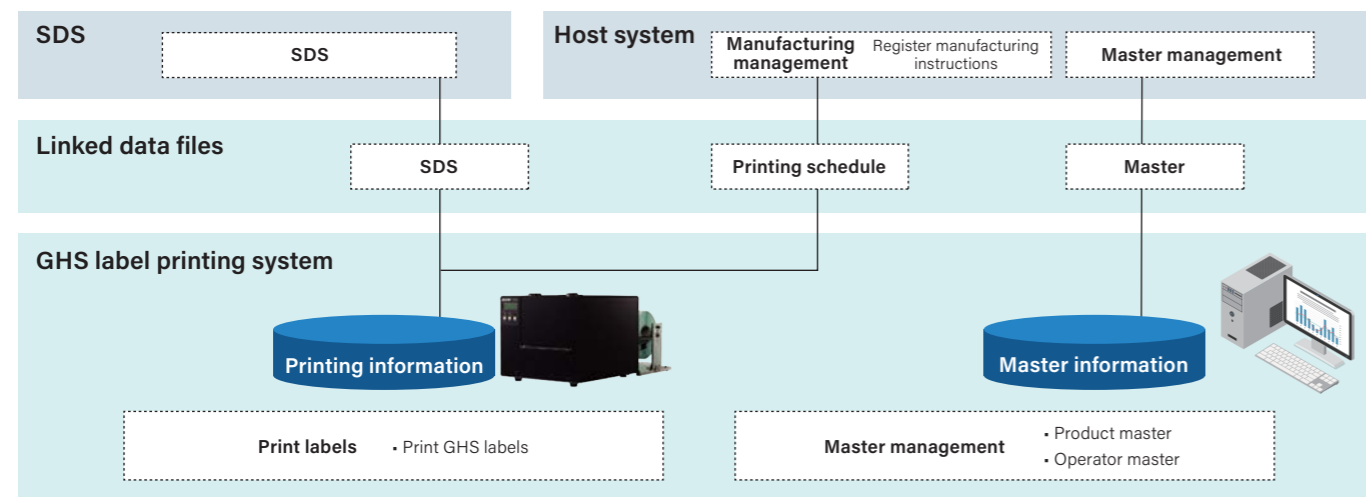
Host system linking	CSV files from the host system can be imported and utilized as the source data for label printing. This reduces manual input work and prevents label printing mistakes due to incorrect input.
Easy label design operations regardless of printer model	Label layout creation software enables easy creation of designs. Unicode support allows printing of chemical formulas.
Data source management	Centralized management of data and label design files on a server enables labels to be printed with the same information from any device.
Label design version management	Version management is performed for label design files. The authorization function can be used to issue permission for printing sample labels, as well as authorize label designs and start operation.

Comparison of basic performance by print method

	Heat transfer	Laser	Inkjet
Advantages	High print durability (solvent, scratch, and weather resistance)	High precision/high resolution (reproducibility of text and fine lines)	Vivid expression of color (full color support)
Disadvantages	Limited colors (red and black)	Support for 5-inch wide roll paper only	Low print durability (solvent, scratch, and weather resistance)
Features	• Usable outdoors • High-speed continuous printing • Link with automatic label applier • Low running costs	• On-demand full color printing • A4 size label printing • High visibility even with ultra-small text • Full color printing	• 4-inch wide label printing • Print with continuous roll paper • Compact and space-saving

Solutions for the Chemical Industry

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SATO Powered **On Site**

Improve productivity via automation of on-site work and more efficient information management

Receiving/warehousing

☑ Improve efficiency of warehouse work with identification

Improve accuracy of receiving work
Apply labels with the locations of received raw materials and quality expiration dates printed as IDs on raw materials to enable accurate management with barcodes or two-dimensional codes.
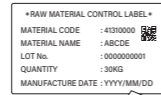
Manage on basis of first-in/first-out
Automatically check first-in/first-out.
This helps prevent deterioration and loss of raw materials.

Manage locations more efficiently
Use IDs to make it easier to identify locations and reduce the time required to find stock.

☑ Make work more efficient via voice recognition, etc.

Make warehouse work more efficient with hands-free operation via wearable terminals and voice input.

+RAW MATERIAL CONTROL LABEL+
MATERIAL CODE : 41310000
MATERIAL NAME : ABCDE
LOT No. : 000000001
QUANTITY : 30KG
MANUFACTURE DATE : YYYY/MM/DD

PW2NX

Manufacturing
(Subdividing/mixing/filling)

☑ Prevent mixing mistakes when using raw materials

Check raw materials before mixing to prevent expired raw materials from being used and mixing mistakes from occurring.
This achieves traceability of raw materials.

### ☑ Handwritten entries not required after weighing

The system detects the number of components and raw materials from the total weight and automatically prints labels. This prevents human errors and leads to increased work efficiency.

☑ Make equipment inspection paperless and adopt voice input

Digitize forms to reduce the need to write, tally and file inspection forms. Inspection images can also be saved and managed at the same time.

Check list

☑ Handle work in dangerous locations with explosion-proof equipment

Products and solutions for making work more efficient in explosion-proof areas improve the precision of raw material management and product management, and help maintain the safety of workers.
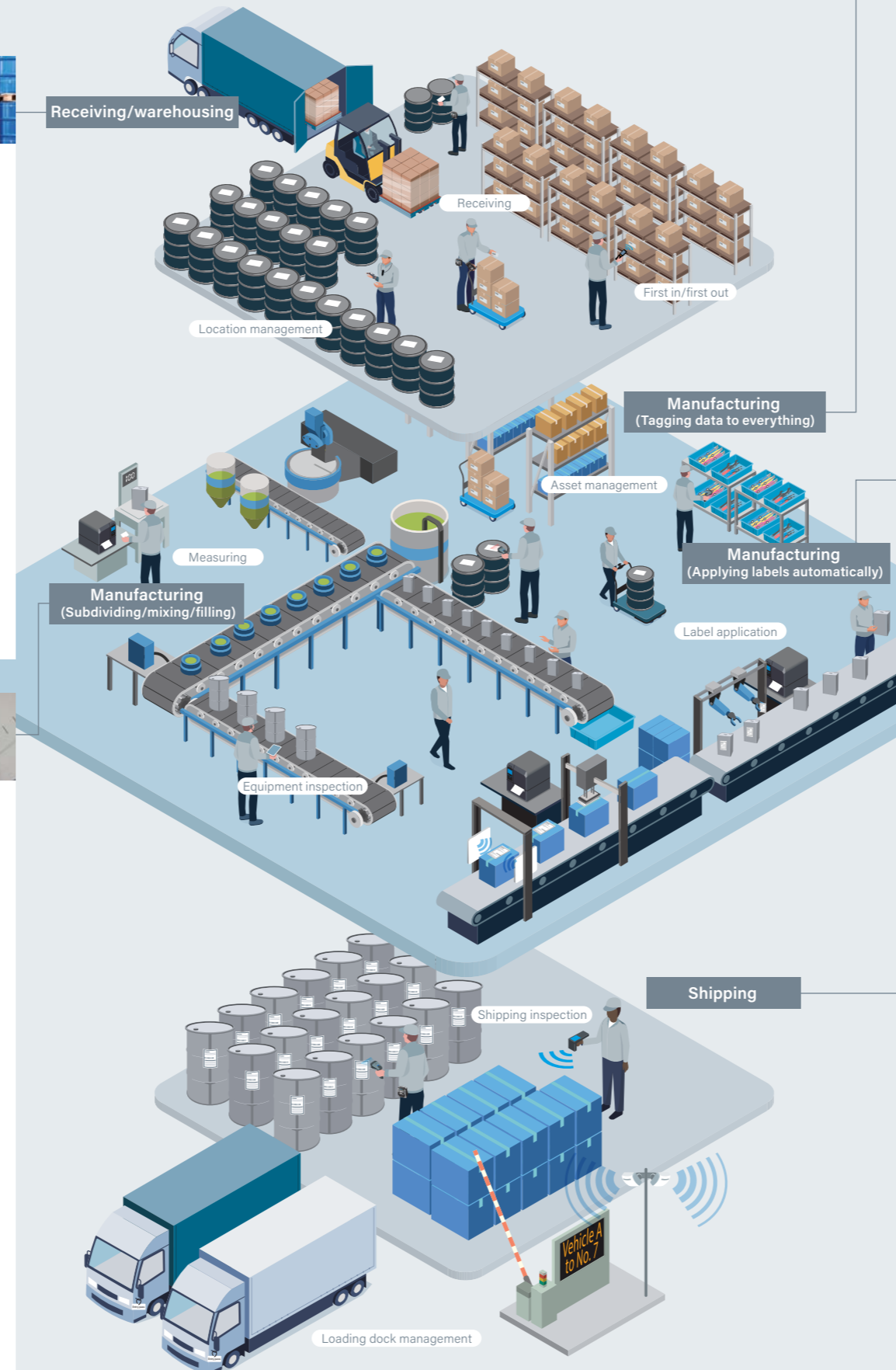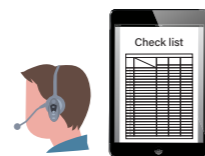
Manufacturing
(Tagging data to everything)

☑ Make asset management more efficient with RFID

Manage fixed assets using RFID and resistance labels in order to prevent the loss of carriers, fixtures, and tools at factories.

☑ Reduce the trouble for finding raw materials with position measurement

Retrieve raw material position information within 50 cm to 1 m to reduce trouble finding raw materials.

☑ Manage worker safety

MEDiTAG vital monitor beacon + Quuppa high-precision position measurement technology
Use MEDiTAG to monitor worker activity and stress levels, and visualize the stress placed on workers and the status of work at each location via Quuppa position measurement technology. This helps prevent workplace accidents and can be utilized for labor management.

MEDiTAG

Manufacturing
(Applying labels automatically)

☑ Reduce label application work

Automate label application with different methods for various containers, including boxes, cylinders, and empty bags before product insertion.
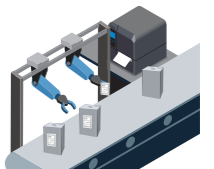
▼ LR4NX-FA Series   ▼ Cylindrical labeler   ▼ Empty bag labeler

☑ Fully automated label application

Fully automate label application with label printers, multi-axis robots, and image inspections, in order to prevent errors in label application and shipping.

Shipping

☑ Prevent shipping mistakes

Apply barcode and RFID labels to finished products to achieve location management and accurate shipping inspections.

☑ Manage returnable containers with RFID

Locate and inspect returnable materials more efficiently with RFID, reading by batch and preventing loss of materials.

☑ Reduce truck waiting time and relieve congestion

Loading dock scheduling by drivers and warehouse-side authorization directs drivers to loading dock without need for waiting.

Diagram labels
- Receiving/warehousing
- Receiving
- First in/first out
- Location management
- Manufacturing (Tagging data to everything)
- Asset management
- Manufacturing (Applying labels automatically)
- Measuring
- Manufacturing (Subdividing/mixing/filling)
- Label application
- Equipment inspection
- Shipping
- Shipping inspection
- Loading dock management
- Vehicle A to No. 7