

High weatherproof / room temperature labels
for shipping & process management of steel products



Solutions for Steel Industry

Given the severe labor shortage, efficient work environment and higher productivity are urgently needed. SATO offers solutions including ID-Managed equipment that support the harsh operating environment of the steel industry.

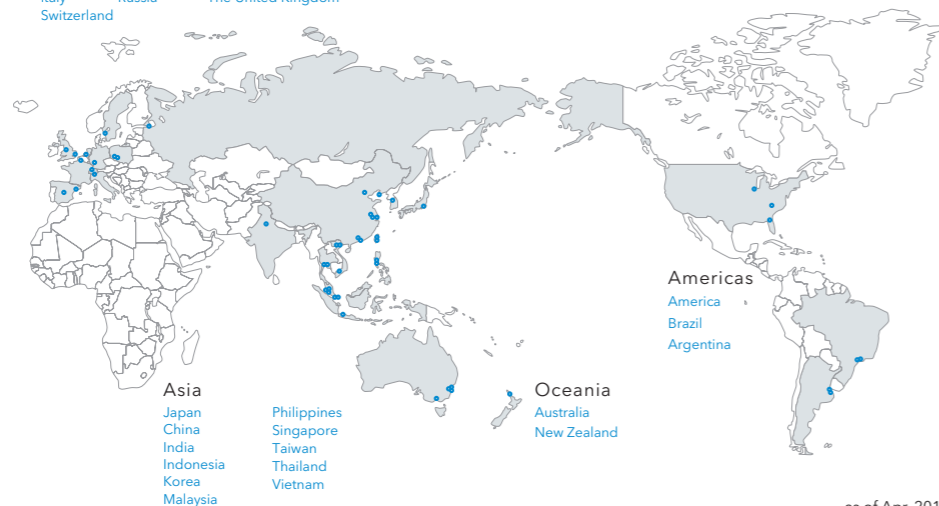
Commonly used label materials

Material	glue	applications	weather resistance	abrasion resistance	oil resistance	Material	glue	applications	weather resistance	abrasion resistance	oil resistance	
Synthetic paper	strong adhesive	Smooth surface of steel plates and steel tubes	3 - 4 years	◎	◎	General purpose chemist	strong adhesive	Smooth surface of steel plates and steel tubes	1 - 2 years	◎	◎	
Synthetic paper	super strong adhesive					General purpose chemist	super strong adhesive					
Synthetic paper	frozen paste	Rough surface				Nema type "G" coat	strong adhesive	3 - 4 years	◎			◎
Synthetic paper	freezing thick glue					Nema white coat	strong adhesive					
Synthetic paper	for ham	Rust prevention oil				Thick and synthetic paper	no glue	3 - 4 years	◎			◎
Synthetic paper	with rough surface					Reinforced and synthetic paper	no glue					
Synthetic paper	with oil surface		Thick paper, PET	no glue	1 - 2 years							

※Depending on ribbon types

SATO Worldwide

We have offices in 26 countries / regions worldwide.
Our business is expanding in more than 90 countries / regions.



as of Apr. 2019

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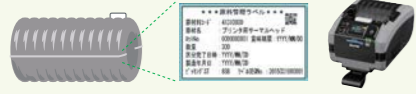


Receipt / Warehouse

Complete first-in first-out management, visible inventory / location, standardised workflow

Improve efficiency of the warehousing operation (No manual writing)

Label inbound materials / components to manage goods with the barcode ID or QR code which includes data on location and expiry date, etc.



First-in first-out management

First-in first-out by expiry date/lot number automatically checked for loss prevention.



Inventory / location management (No searching)

Applying a location ID to the goods on arrival, help efficient receiving and delivery.



Standardised workflow (Hands-free)

- Print labels by voice command
- Hands-free wearable devices
- Print labels with character recognition intelligence



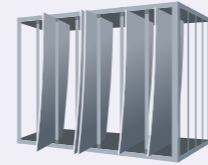
Manufacturing / Processing

ID equipped devices bring you higher productivity, less labor power, mistake-proofing environment, Poka-yoke, traceability

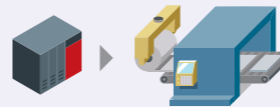
Deliver right quantity to the production line
The right quantity at the right time to prevent process loss or operational mistakes.



Mill ends management (No wasting)
Manage mill ends produced in the manufacturing process by ID to achieve traceable mill ends and waste-free production.



IT-driven manufacturing facilities
Setting up, operating a processing machine, etc, we help you design an environment with no-guess work, and error-free.



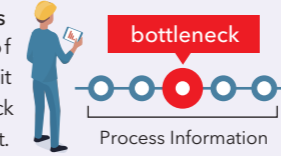
Traceability

Manage manufacturing information by ID to make it traceable, and build trust with customers.

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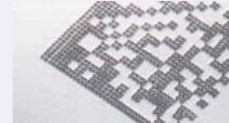


Visualization of process
Unified management of process information makes it easy to identify the bottleneck and improve total throughput.



Direct marking

Direct marking allows you to manage every piece of product, if they are too small to be labelled.



Devices with ID

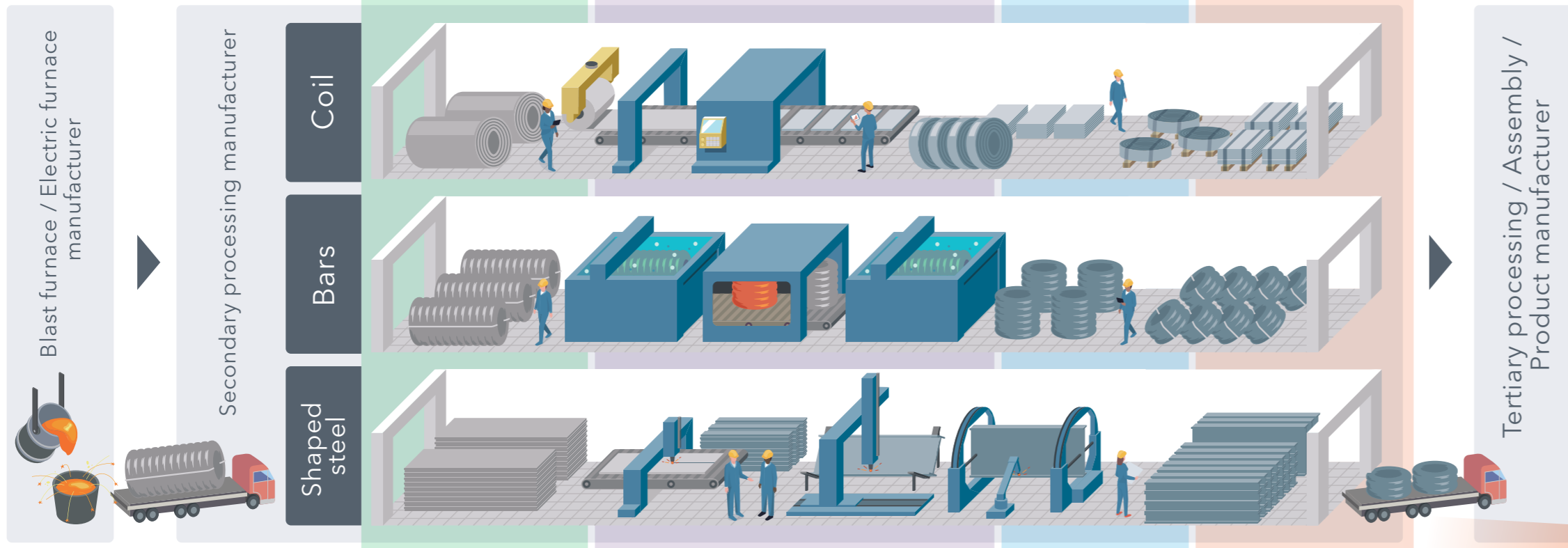


Receipt / Warehouse

Manufacturing / Processing

Inspection and measurement

Shipment



SATO helps you achieve the desired shape, process, and precision that would otherwise be given up

Identification technologies for our the harsh environment
Labels are durable enough to use in the high temperature, outdoor environment or chemical use, even in the chemical process, ID on the labels won't fade off.



Back-Office

Data at a glance - human / physical resources at your production site

Safety management for workers

Visualize how they work using the collected data (flow line - travelling route of workers) with UWB / BLE, and perform vital checks to prevent accidents while reducing human intervention.



Mill test report

OCR digitised data make it easy to manage the report and respond to vendors' inquiries. It can also integrate with trace drawing data.



Batch read for drawings and books

Batch read feature is available for the drawings and valuable books with special codes attached.



Production facilities with IT

Support regular facilities maintenance of your factory production site. Managing maintenance schedule with equipment number can facilitate regular checks and non-disruptive operation.



Asset management

Prevent the loss of carts, fixtures and tools in your factory by managing them using RFID and chemical / heat resistant labels.



Security management

Labels with special security technologies help you identify whether they are valid and prevent them from being replaced with fake ones in transit.

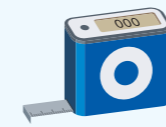


Inspection and measurement

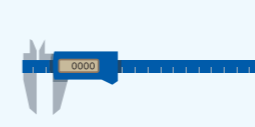
Support the advanced & complex quality control

Auto-inspection

Error-prone "Visual inspection", "Handwriting", and "Typing error" can be eliminated.



Digital measure



Digital calipers

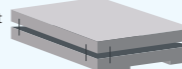


Voice input

Automated measurement

Print automatically the exact number of labels determined based on the total weight. Print labels using the actual scale weight data. All these leads to higher efficiency while reducing human intervention.

Number / Weight measurement



Management of testing piece / sample items

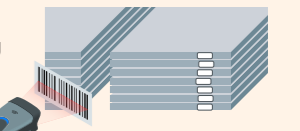
Use ID to manage items after you complete sampling inspection.



Shipment

We support faster and more accurate logistics

Erroneous shipment prevention
Reduce shipping errors by managing locations and inspect for outbound delivery with barcodes and RFID.



Inventory management

Control quantity on hands / age of the inventory for the finished products to make first-in first-out / inventory work efficient.



Improve truck delivery efficiency
Determine the best transport company based on the destination and freight weight, print invoice and keep relevant data for future cost reduction.



Traceability

With serial number linked to the destination, parcels are traceable whenever needed.

