

# THERMAL PRINTING TECHNOLOGY

Optimized the inventory  
management



# EXECUTIVE *Message*



The Ricoh Group has grown with its customers since its inception in 1936, bringing new innovations to the world through its revolutionary optical and imaging equipment.

We are responding to see changes in lifestyles and work by evolving into a digital company.

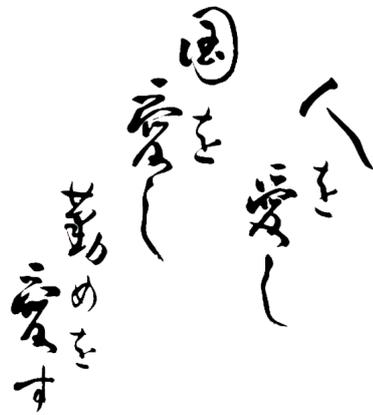
We made fulfillment through work central to our vision for 2036 when we commemorate our centennial. That is because in serving the working needs of our customers we have aided their efforts to streamline tasks while enhancing productivity. We have thereby empowered workers to gain a sense of satisfaction, achievement, and self-realization.

We hope to become essential to each one of our stakeholders by helping resolve social issues and reach the United Nation's Sustainable Development Goals through our business activities.

**Yoshinori Yamashita**  
Presidence and CEO

# Ricoh Way

## Founding Principle



The Spirit of Three Loves

"Love your neighbor"

"Love your country"

"Love your work"

by Kiyoshi Ichimura, Founder



## Mission

We are committed to providing excellence to improve the quality of living and to drive sustainability.

## Vision

To be the most trusted company.

## Values



**Customer Centric**  
Act from the customer's perspective



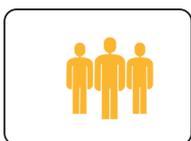
**Passion**  
Approach everything positively and purposefully



**Gemba**  
Learn and improve from the facts



**Innovation**  
Break with the status quo to create value without limits



**Teamwork**  
Respect all stakeholders and co-create value



**Winning Spirit**  
Succeed by embracing challenges through courage and agility



**Ethics and Integrity**  
Act with honesty and accountability

## About Ricoh Group

**Consolidated sales**   
**1,682.0**  
 billion yen  
 (as of March 31, 2021)

**Total No. Employees**   
**81,184**  
 employees  
 (as of March 31, 2021)

**Geographic Coverage**   
 Approx. **200**  
 companies  
 (as of March 31, 2021)

**A3 Laser MFP/ Copier Market**   
**No.1\***  
 In terms of shipments in 2020

**No. patents acquired worldwide**   
**40,458**  
 (as of March 31, 2021)

**Research budget ratio**   
**5.3%**  
 of total sales (FY 2021/03)

\*Source: IDC's Worldwide Quarterly Hardcopy Peripherals Tracker, 2021 Q1, A3 Laser, MFP/SFDC, Speed Range A4 less than 91 ppm, by Company CY2020

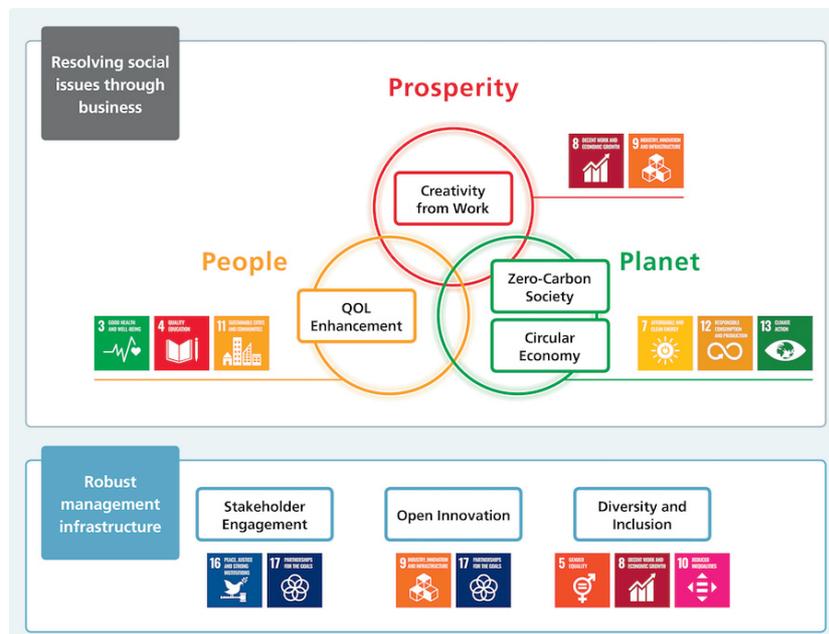
**ROE**   
**-3.6%**  
 (FY 2021/03)

**Market Capitalization**   
**837.2**  
 billion yen  
 (as of March 31, 2021)

**Geographic Coverage**   
**55.2%**  
 FY 2021/03

## Materializing Sustainability through Business

The Ricoh Group pursues sustainability through a Three Ps Balance - Prosperity (economic activities), People (society), and Planet (environment). We accordingly endeavor to resolve social issues through business and maintain a robust management infrastructure and will help to attain the Sustainable Development Goals (SDGs) of the United Nations.



## Business Overview

### RICOH Industrial Solutions

Thermal Media: Thermal transfer ribbon and direct thermal paper

Value provided

Solutions for manufacturing, logistics, and industry workers



### RICOH Digital Services

Office Services and Office Printing (sales)

Value provided

Solutions for people working in offices and remotely  
Solutions for frontline workers



### RICOH Digital Products

Office Printing (development, production and OEM)

Value provided

Edge devices connecting workers  
Manufacturing that supports digital services

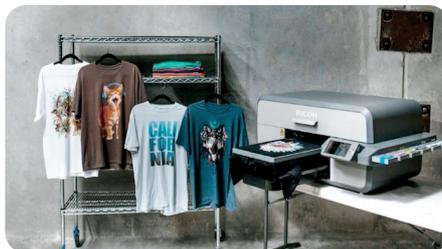


### RICOH Graphic Communication

Commercial printing and industrial printing

Value provided

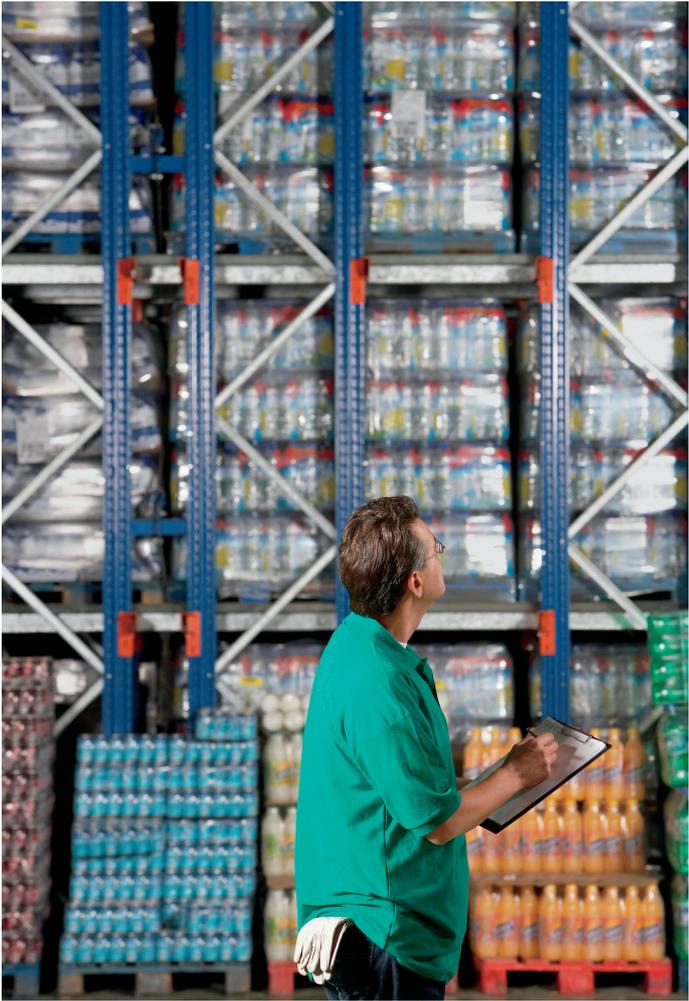
Solutions for printing site workers





# STORAGE MANAGEMENT SOLUTION

Optimize working workflow, enhance the productivity



Storage management is vital to every business, it helps to simplify the operation workflow, save more time for essential tasks, reduce costs and increase productivity.

This process should be transparent and accurate. Enable traceability when the problem occurs.

## Challenges



### Receiving

Check-in and tracking incoming products and spare parts. Ensure the accurate quantity, right condition and right time.



### Operation management (Office)

Rotate the products from receiving area to the pre-determined storage area. Tracking the product location helps to reduce searching time. Accurately know the quantity of receiving and delivery products to make the purchasing decision.



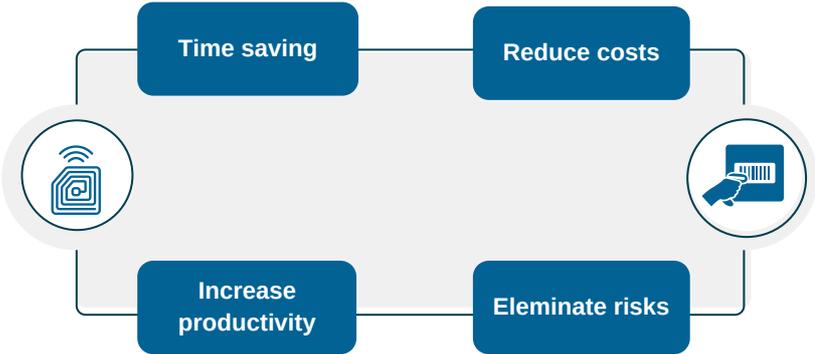
### Production

Accurately track the production process from raw materials to finished products. Enable the traceability when problem occurs.



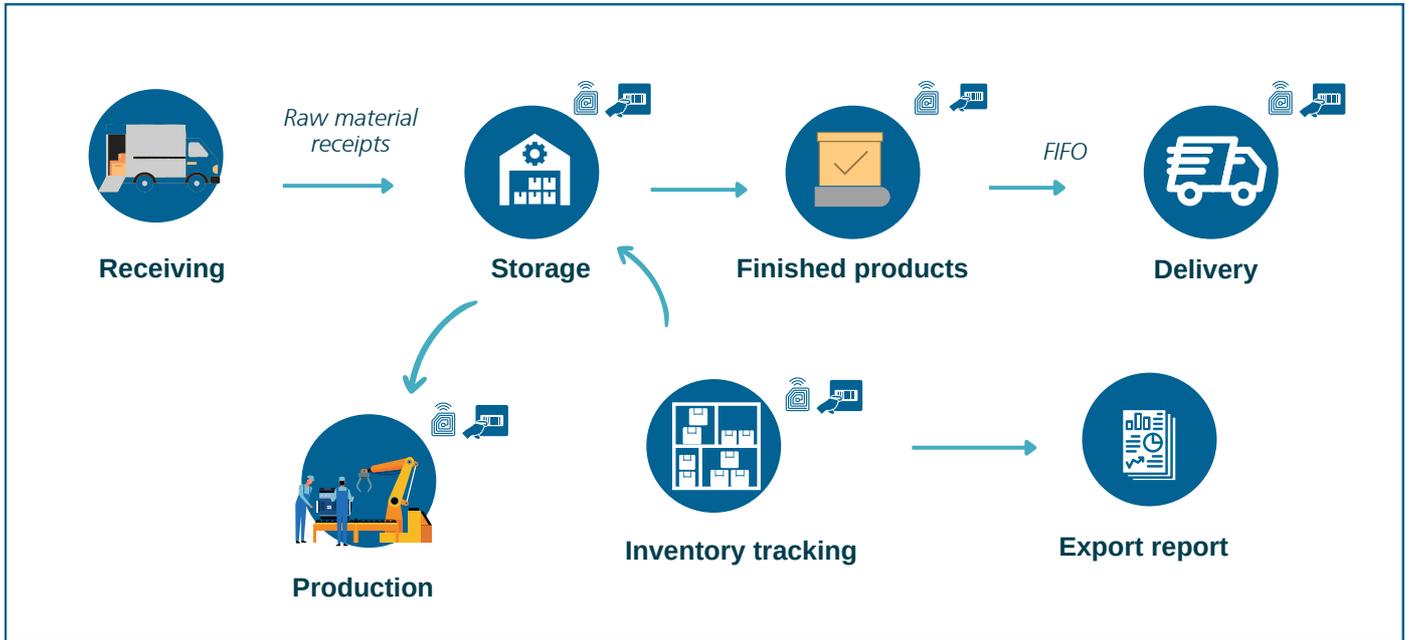
### Shipment

Get the orders shipped. Ensure the products are transported in the right vehicle, at the right time, and with the correct information to deliver timely to customers.



## New workflow

When applying the storage management solution, every step in the entire warehouse will be tracked and controlled thanks to RFID or barcode technology.



## Storage Management Solution RFID & Barcode technology



**Printer**

Barcode/ RFID



**Software**

Storage management  
Label printing  
Generate barcode



**Consumables**

Direct thermal paper  
Thermal transfer ribbon & label  
RFID label



**Scanner**

Barcode & RFID

## Application



**Rack label - Location label**

Determine the location in the warehouse



**Carton box label**

Determine the information of the products

# RICOH THERMAL TRANSFER RIBBON (TTR)

Ricoh Thermal Transfer Ribbon is the result of Ricoh's long experience as a manufacturer of cutting-edge information and communications equipment. Indeed, our products are used in more than 120 countries around the world. Our advanced thermal transfer technology is designed to help you convey information more clearly and accurately, and we trust it will meet your highest standards.



## Certification

### RoHS

Restriction of Hazardous Substances

### ISO EN71-3

European safety standards EN71

### 2003/11/EC

Directive 2003/11/EC

### HALOGEN FREE

Halogen-free materials

### 2000/53/EC

Directive 2000/53/EC

### WEEE

Waste from Electrical and Electronic Equipment

### TSCA

Toxic Substances Control Act

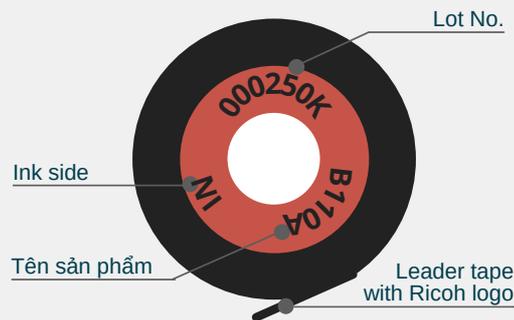
### REACH

Chemicals standards

TTR Grade	Wax, Wax Resin, Resin, Care label
Cấu tạo	5 layers Protect print head and reduce static electricity
Màu sắc	 Black    Blue    Red    Green    White

## 1 Core making

## 2 Leader tape with Ricoh logo



HOW TO IDENTIFY RICOH  
**GENUINE THERMAL TRANSFER RIBBON**



Test tub label (Freeze)



Asset label



Blood bag label



Electronic components



Carton box label



Care label



Chemical label

# DIRECT THERMAL PAPER (DT)

The perfect paper for clearer, more accurate information transfer



## Key Features

- Special surface treatment for excellent image preservation.
- Sharp, dense, complete images even when printed at high speed.
- For maintenance-free, noise-free thermal printer recording.
- Labels can be processed in the same way as ordinary plain-paper labels.
- Suitable for letterpress and other printing methods (Recommended inks are UV flexco)
- Can be stored for a long period without quality degradation.

Type	Adhesive	Non adhesive
Materials	Paper, film	
Adhesive	Water-based acrylic, hotmelt	-
Thickness	58 - 250µm	
Weight	56 - 257 g/m2	
Heat resistance	Up to 100°C	



Shelf label



Frozen food label



Outdoor storage



Frozen storage



Shipping label



Carton box label



Healthcare label



Receipt



## Certification



Restriction of Hazardous Substances



MATERIAL DATA SAFETY SHEETS

Material Safety Data Sheets



Products come from responsibly managed forests



Free from BPA



Chemicals standards

## Ricoh Vietnam

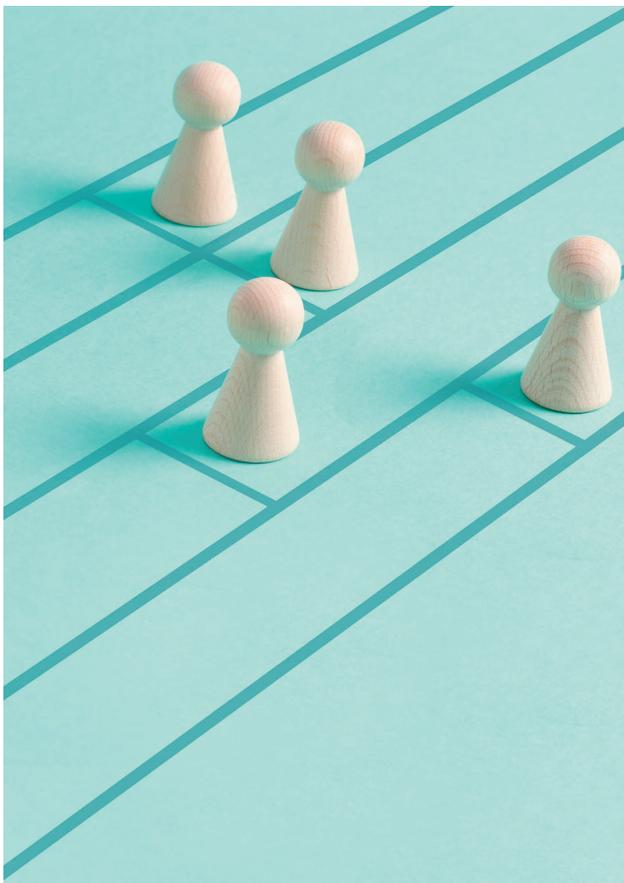
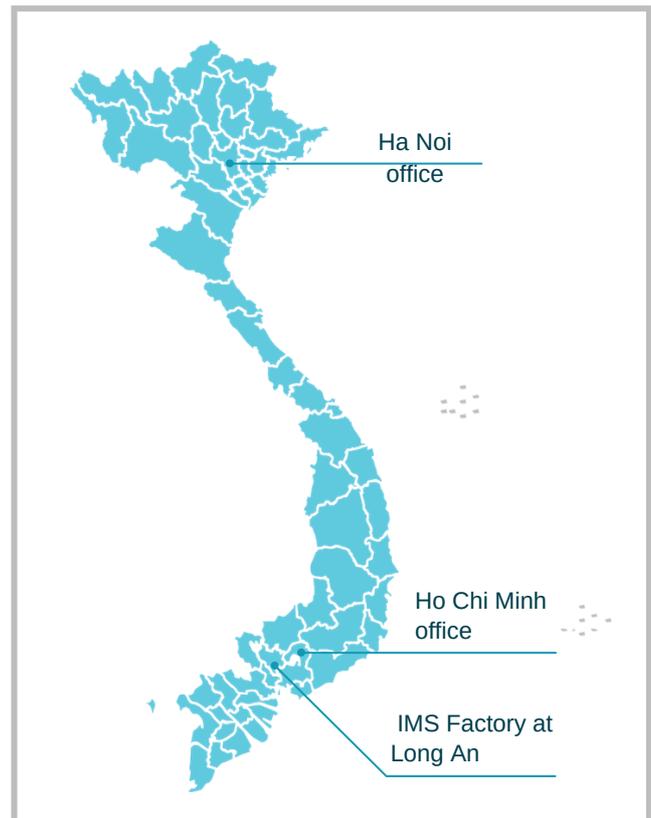
**Founded:** 11 Nov 2011.

**Managing Director:** Mr. RYOTA YAMAMOTO

**Head office:** F17, E.Town Central,  
11 Doan Vo Bo, District 4, HCMC

**Branch office:** F12, VPI Tower, 167 Trung Kinh,  
Yen Hoa, Cau Giay, Hanoi

**IMS factory** A1, Kizuna 2, Tan Kim IP, Can Giuoc,  
Long An Province



## Our advantage



Ricoh can customize size thermal transfer ribbon and direct thermal paper as your demand



Ricoh's thermal business is global and mainly focused on the manufacture and distribution of thermal paper and thermal transfer ribbons



Ricoh is the only one company has slitting factory and office in Vietnam, so we can provide quick delivery service and on-site technical advice and support



Ricoh provide high quality and authentic products which meet your requirement



Ricoh provide certificates and documents as your needs



**CONTACT US**

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## RICOH'S GLOBAL PRESENCE



# RICOH

<https://ricoh.com.vn/products/thermal>

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**Tax code:** 0311179208

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