

Overview of Daio Paper Group



Daio Paper Business



Daio Group carries out business in two main segments: the Paper and Paperboard Business and Home & Personal Care Business (“H&PC” business). We provide materials that support culture and industry, including newsprint, printing and publication paper, cardboard, and wrapping paper, as well as personal care products that support various aspects of daily living, including products like facial tissue, toilet paper, baby diapers, and adult diapers.

Paper and Paperboard Business



Newsprint Printing Paper Publication Paper



Communication Paper Self-Adhesive Paper (Tack Paper)



Functional Materials



Wrapping Paper



Containerboard and Corrugated Container

Home & Personal Care Business (H&PC)



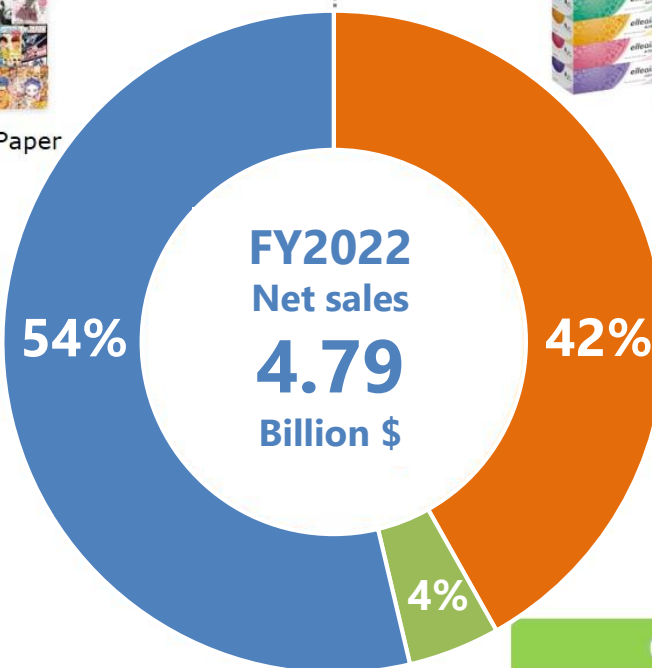
Household paper products



Baby diapers Adult diapers



Feminine care products Wet tissues Face mask



Other businesses

Timber business, Forestry business, Machinery business, Logistics business, Power sales business, Golf course business, Real estate leasing business, etc.

Introduction of Daio Eng. RFID Business



About Daio Engineering Co., Ltd.

About Daio Eng.

| | | |
|---------------|-------------|-------------|
| Found | Found | 1972 |
| Capital Stock | Million Yen | 60 |
| Employee | 2023 July | 637 |

- ✓ Utilize the technology of environment, electronics, electrical and machinery technology
- ✓ Propose the energy saving and labor saving for cost reduction
- ✓ Production of environment recycling equipment and inspection equipment
- ✓ Deploy original development of plant engineering

6 Business structures required in society



What is RFID ?

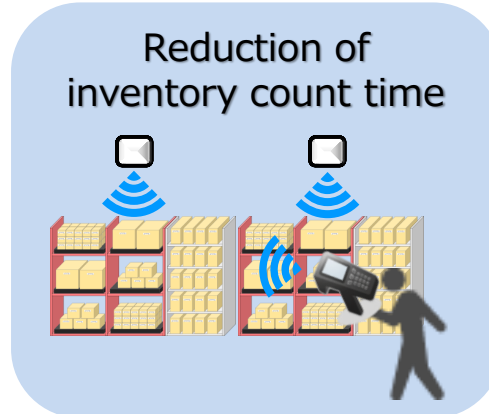
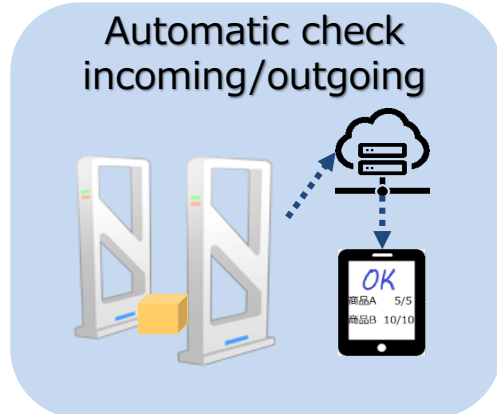
RFID

Radio

Frequency

IDentification

RFID stands for **R**adio **F**requency **I**dentification. It is an automatic identification technology whereby digital data is encoded in an RFID tag and is captured by a reader using radio waves. Unlike other system such as barcodes or QR codes, more than one tag can be scanned simultaneously even distant tags.



UHF vs. HF

UHF

(Ultra High Frequency)

860MHz to 960MHz



Battery-less

Read range
~10 m

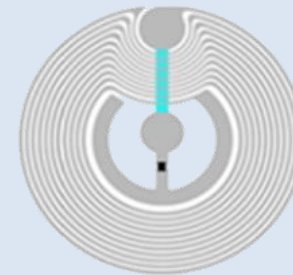
sensitive to moisture
weak to metal

Dedicated reader
is necessary

HF (NFC)

(High Frequency)

13.56 MHz



Read range
~40 cm

resistance to moisture
weak to metal

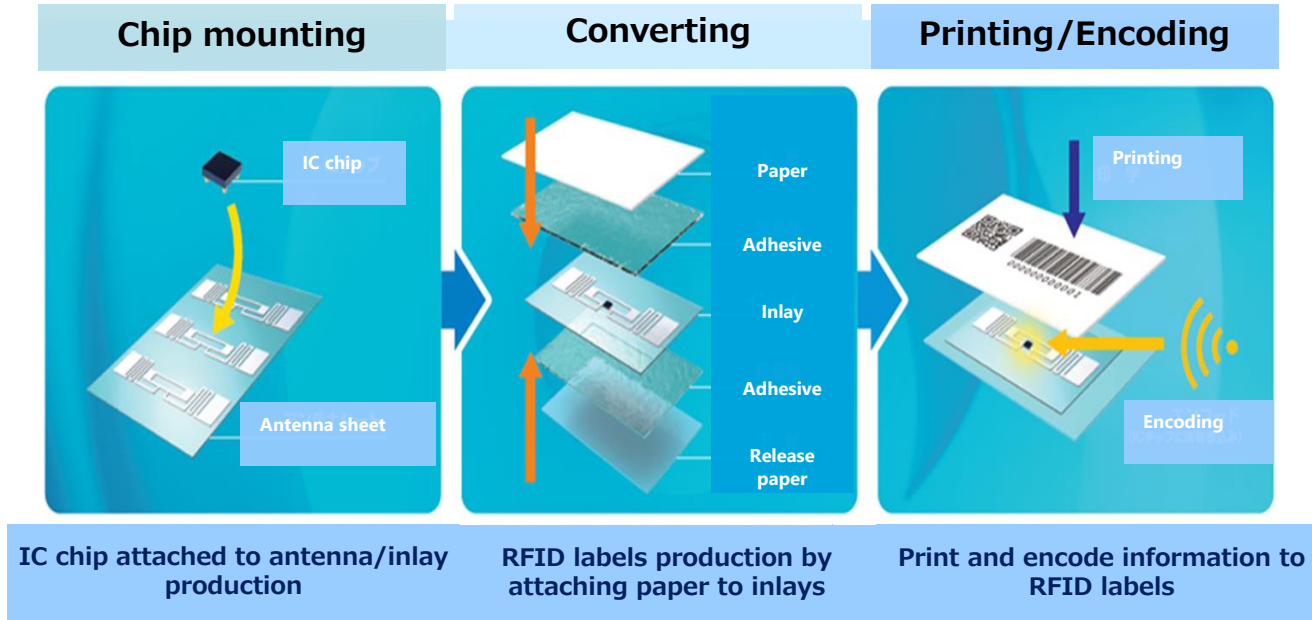
can be read by
mobile phone

Unique development
Special tags
- Liquid compatible
- Metal compatible

Operation of RFID tag integrated factory

Developed and Manufactured at Domestic factory in Japan

A integrated system in Japan for design, development, and production



IC Chip

Procurement directly from semiconductor manufacturers

Antenna

In-house design
Domestic procurement

Paper

In-house supply

Daio's SpeeMa RFID

1. Integrated system of production from design to finished products.

Design, Development and Production at our own factory.

Most of the materials are procured domestically, produced at our own factory, so we can respond to detailed requests from customer.

2. Quality Management

ISO9001: certificated

ARC certification from Auburn University: in process

3. Experience in Japanese market

Experience in selling millions of RFID inlay/tag in the Japanese market.



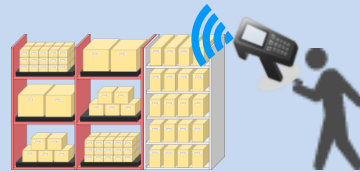
Efficient operation with RFID

You can increase the efficiency of factory operation by introducing RFID solution.

Improving factory operation

Inventory count

Quick inventory check with handy reader



Search for a location

Easy searching for storage location



Process management

Process control of manufacturing with Gate reader



Location control

Location control of entire plant by installing readers in places.



In-and-out control

In-and-out control with Gate reader



THANK YOU