Working with you every step of the way

Our extensive R&D investment is directed at meeting the challenges of the fast-changing food industry around the globe.
We aim to support our partners fully, from the very start of the buying process, and you will find many equipment brochures, visual animations and case studies available on our website. When you are ready to make contact, a well-resourced network of Ishida companies, distributors and agents, extending across the world, can provide advice and organise demonstrations and trials.

Installation is rapid and efficient. For integrated packing lines, we use proven project management techniques and methodologies, tuned to your key objectives and specifications.
A dedicated service engineering team helps to maximise the performance, functionality and reliability of our installed base. In addition, spares facilities are strategically placed throughout the territory, offering 24-hour delivery in most cases.
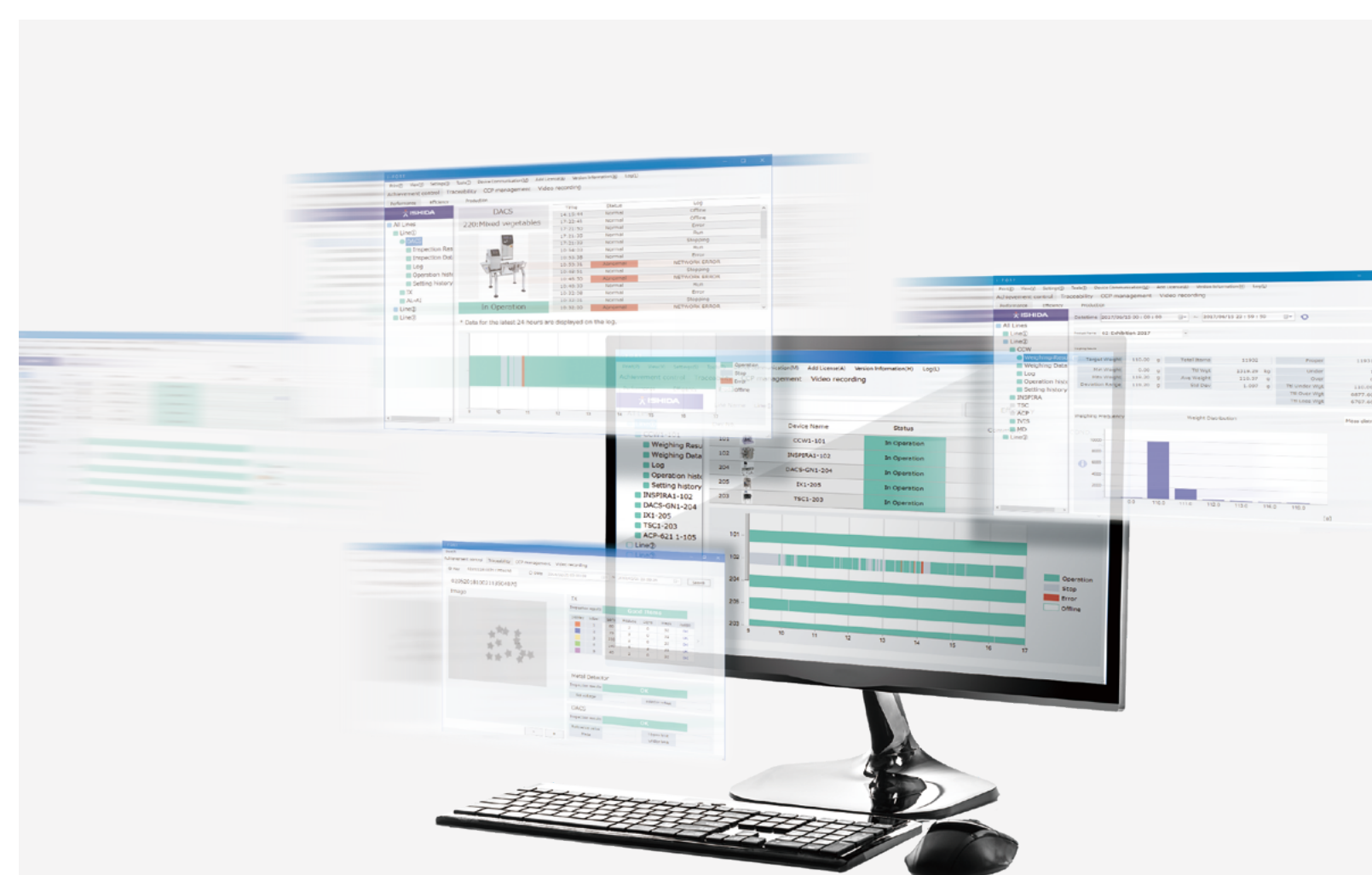
helpline • spares • service • training

i-FORT

Production Monitoring and Data Management Systems

This catalog has been established in 5/25/2023.
Ishida follow a policy of continual improvement and design and specification are subject to change without notice.

i-FORT

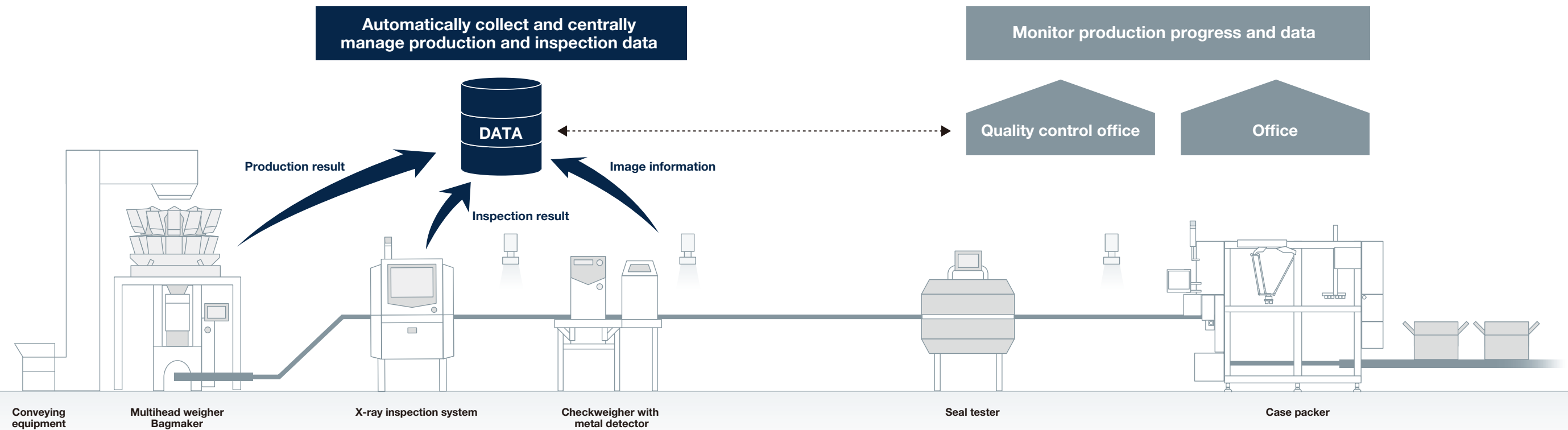## Production Monitoring and Data Management Systems

i-FORT improves production efficiency with centralized management

Centrally manage the information from the machines. Able to monitor the performance data, production line status and inspection result from the office. Boost the establishment of traceability and CCP management, as well as easily recognize the bottleneck of the production line. i-FORT strongly supports solving production quality control issues.

"Visualization" our latest inspection data offering

Increase productivity by utilizing information and communication technology-based management and visualizing operational data. Use data to help solve a variety of problems on your production line.

- ▲ Analyze collected data in order to develop production efficiency
- ▲ Share the real-time production progress to smoothly communicate with field workers
- ▲ Identify production bottleneck by utilizing operational information
- ▲ Reduce checking/recording time of inspections
- ▲ Improve efficiency of produciton line by utilizing production report
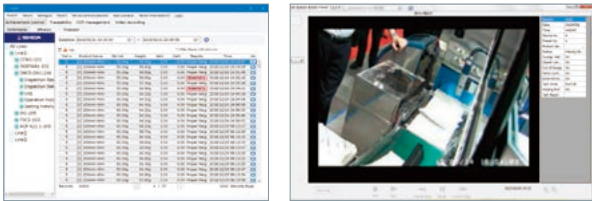- ▲ Prevent product failure caused by insufficient production control

Automatically collect and centrally manage production and inspection data

Monitor production progress and data

DATA

Production result

Inspection result

Image information

Quality control office

Office

| Conveying equipment | Multihead weigher Bagmaker | X-ray inspection system | Checkweigher with metal detector | Seal tester | Case packer |

Support CCP Management

Image Recording (Option)

Integrate i-FORT functions, including data management, traceability, and CCP management, with image records to enable quick verification in case of a customer complaint. Review of production site operation based on image information is useful for enhancing production efficiency.

Event Record (in conjunction with result and history information)

Keep image records together with production and inspection results and history information. Quickly access images taken when events of interest (such as inspection results of NG items and machine errors) occurred.
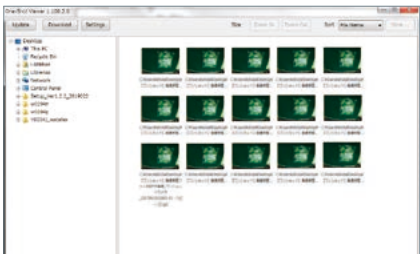
Event Record (in conjunction with other manufacturers' machines)

Link i-FORT with event information from peripheral machines. Quickly access image information taken when events of interest occurred.

One-Shot Record

Take images of and record the appearance of all products to check the condition of the products before and after packing and after shipment in case any problem arises.

Centralized Management

Gather and display multiple recorded and live camera images on a single screen so the user can check images of interest from multiple locations at a glance.

(The screen is for illustrative purposes only)

"Visualization" of production

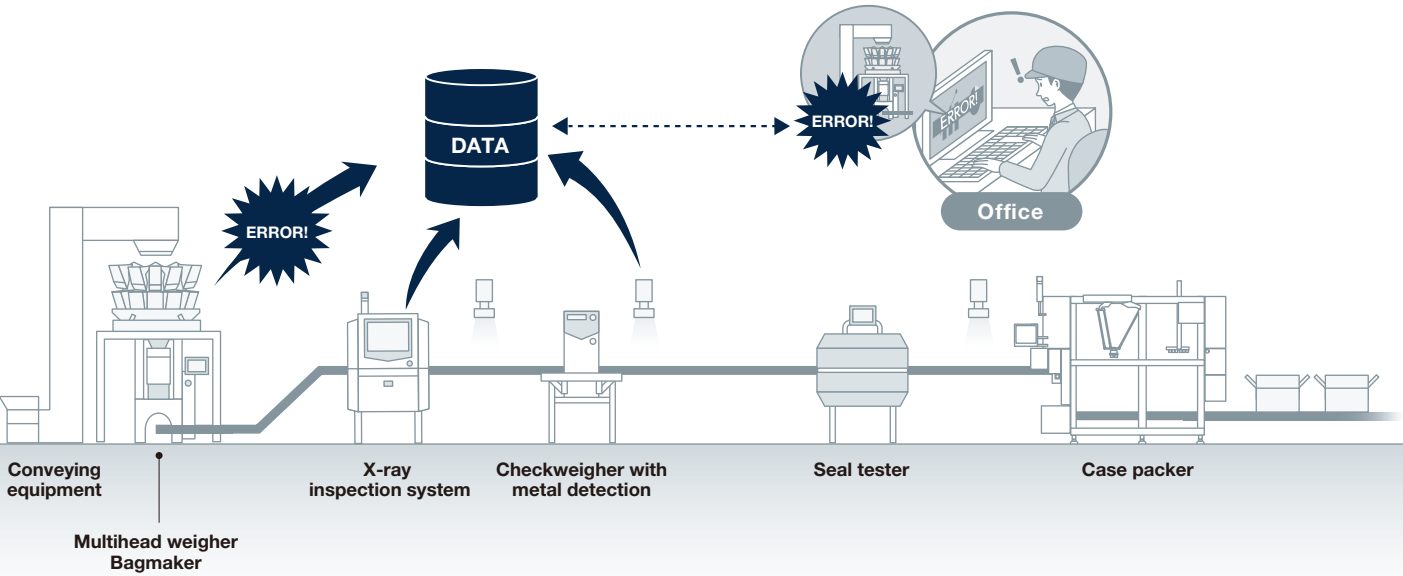## Reduce operational waste and support increased production development

Reduce workload and production downtime and increase operation rate. i-FORT visualizes production status and operation data and also reduces manual working time for recording.

History record function

▲ Management of Users Login
Set password to login and determine operator's access depending on skills and levels

▲ Operational History Record
Record who, when, and what settings changed

▲ Setting History Record
Take a back-up to restore the setting data for each machine

Quickly identify production errors and eliminate bottlenecks on the line.

Gather all production line data into one computer and monitor the field status. If something went wrong, identify the problem at an early stage of the production line.

| Conveying equipment | Multihead weigher Bagmaker | X-ray inspection system | Checkweigher with metal detection | Seal tester | Case packer |

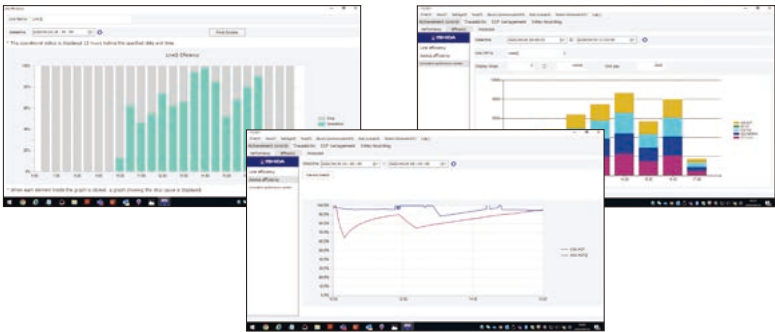# A variety of functions support time consuming analysis

Show graphical production progress and forecast working finish time

Visualize graphical production status and support production efficiency.

Production result screen

Automatically collect production results as a table.

Histogram screen

Show the weighing result of a computer weigher and a weight checker as a histogram.

Show graphical operation data and production results

Display production line and operation data.
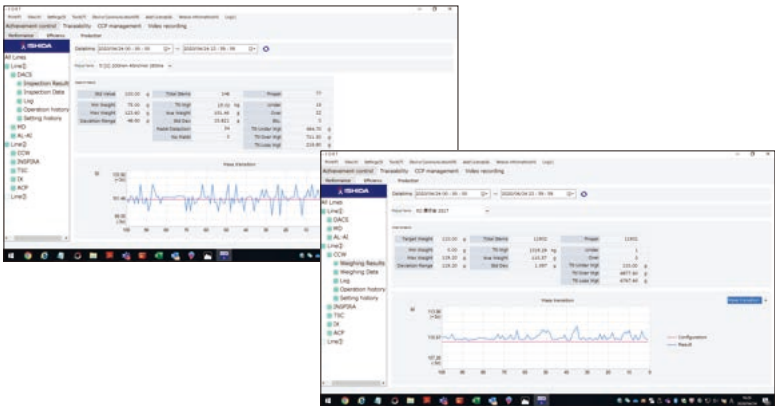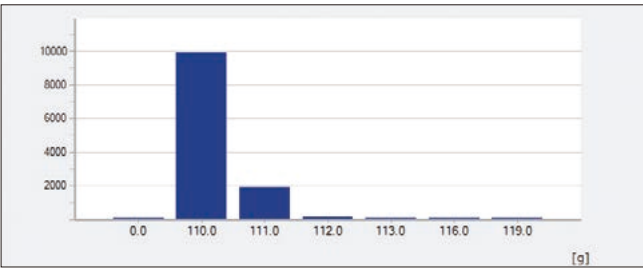Visualize machine performance at each hour.

Graphically represent availability rate and accumulated results

Display and compare changes in the availability rate of production lines and machines. Each machine's production result by time slot is visualized clearly to facilitate result analysis and to contribute to production efficiency improvement.
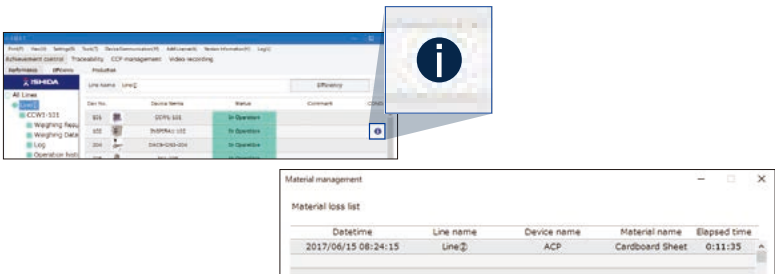

Material management

This function lists machines which received materials during the replacement timing window which supports efficient operation at production sites.

"Visualization" of product quality

Visualize "food safety" and "reliability" using the latest technological product quality control system

Establish traceability and apply HACCP to protect the company brand.
Visualize the product quality with i-FORT inspection data. Easily manage CCP with recording and handling of inspection data.

Changes before and after installing i-FORT

Before introduction of i-FORT	After introduction of i-FORT
Record data Hand writing calibration result and inspection result on paper	**Automatically gather information from each inspection machine**
Data management Need storage space for paper data	**Centralized management automatically collects all data into the central data base**
Data use Check relevant paper data by hand	**Access data easily from the computer when writing reports**

i-FORT supports traceability

Trace product by printing of unique identification number with a labeler or an ink-jet printer.
Enable quick problem solving and claim response.

Unique product identification number verifies inspection result

In conjunction with a labeler, an ink-jet printer, and/or other printing devices, i-FORT can accommodate various packages, such as trays, cartons, and form-fill-seal bags.

Early understanding of problems

Any defective products quickly can be reported to the customer, mitigating possible impact to your company brand image if notification is late.

Example of printing with a labeler or ink-jet printer (visible, invisible)

Printing on labels

Search inspection results by individual product identification numbers

Print on products with transparent ink (visible when irradiated with black light)

Search data by i-FORT

Example of an inspection result display

Send inspection result data and individual product identification numbers

Search inspection results by individual product identification numbers

Office/quality control office

Individual product identification number

Product

Customers

Inspection

Printing

Labelling

Shipment

Inquiry