Global Network

Cleveland, U.S.A.
Chicago, U.S.A.
Anaheim, U.S.A.
Mexico
Atlanta, U.S.A.
Brazil
Czech / Slovakia
Austria
Ireland
United Kingdom
Spain / Portugal
Germany
Italy
Russia
Poland
Hungary
France
India
Dalian
Tianjin
Suzhou
Ningbo
Dongguan
Hong Kong
Thailand
Malaysia
Singapore
Korea
Tokyo / Chiba
Shanghai
Taiwan
Philippines
Vietnam
Indonesia

i-Connect
Production Quality Control System

Sumitomo SHI **DEMAG**

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Industrial Machinery Segment, Plastics Machinery Div.

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SHI Plastics Machinery (India) Private Ltd. Chennai Office
Second Floor, 308-309, Block No.64, Ten Square Building, Jawaharlal Nehru Road, Koyambedu, Chennai, Tamil Nadu 600107, India
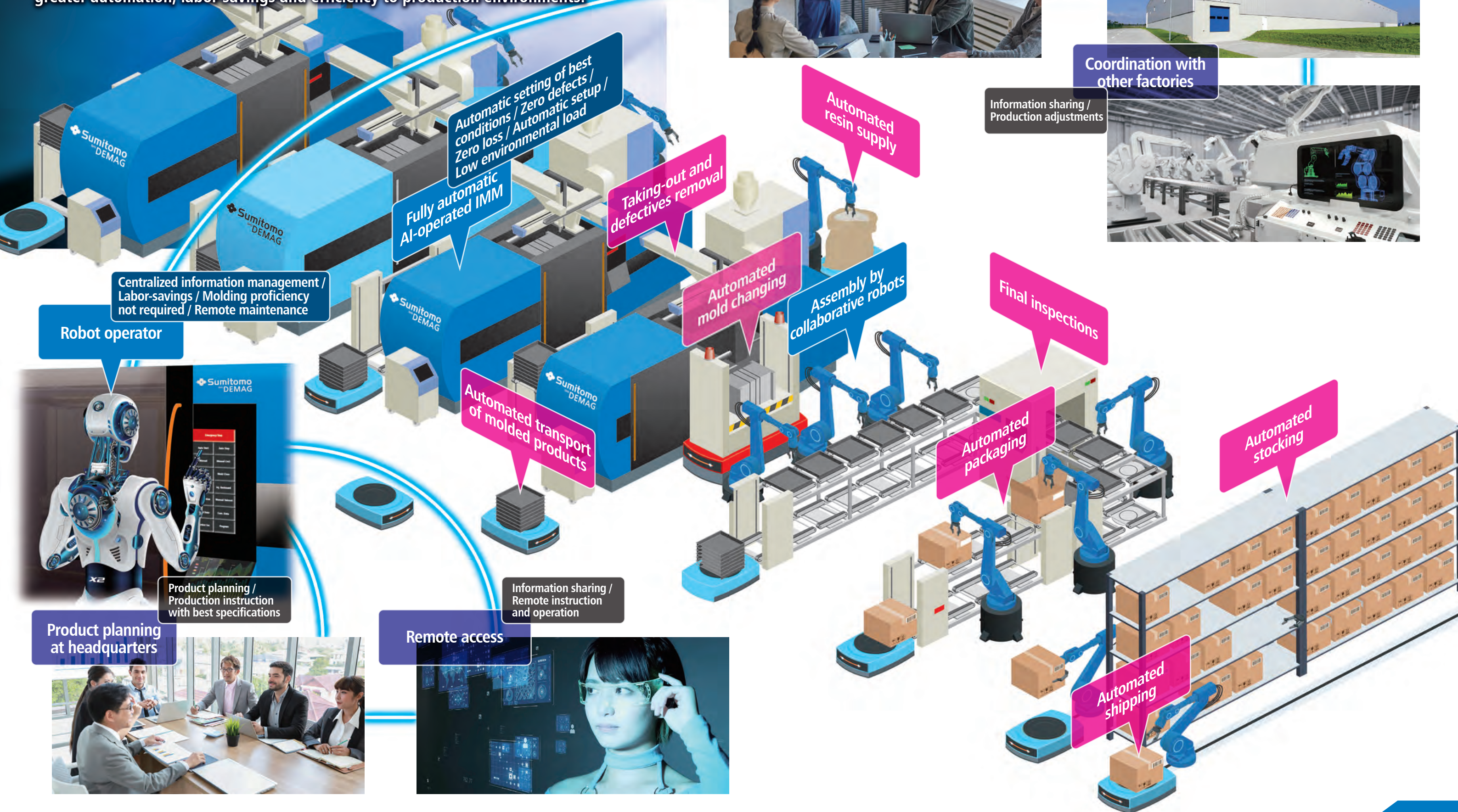Tel:+91-124-2217056, -64

i-Connect
Production Quality Control System

Version 2.7.2

i-Connect
Production Quality Control System

User ID   Sumitomo
Password   ●●●●●●●●

www.shi.co.jp/plastics/

Sumitomo Heavy Industries, Ltd.

● Photographs of application images may differ from actual products. ● Specifications subject to change without notice for performance improvement.

B021EN04-2311HG

ICT-driven molding factory of the near future

Advances in information and communication technologies are bringing greater automation, labor-savings and efficiency to production environments.
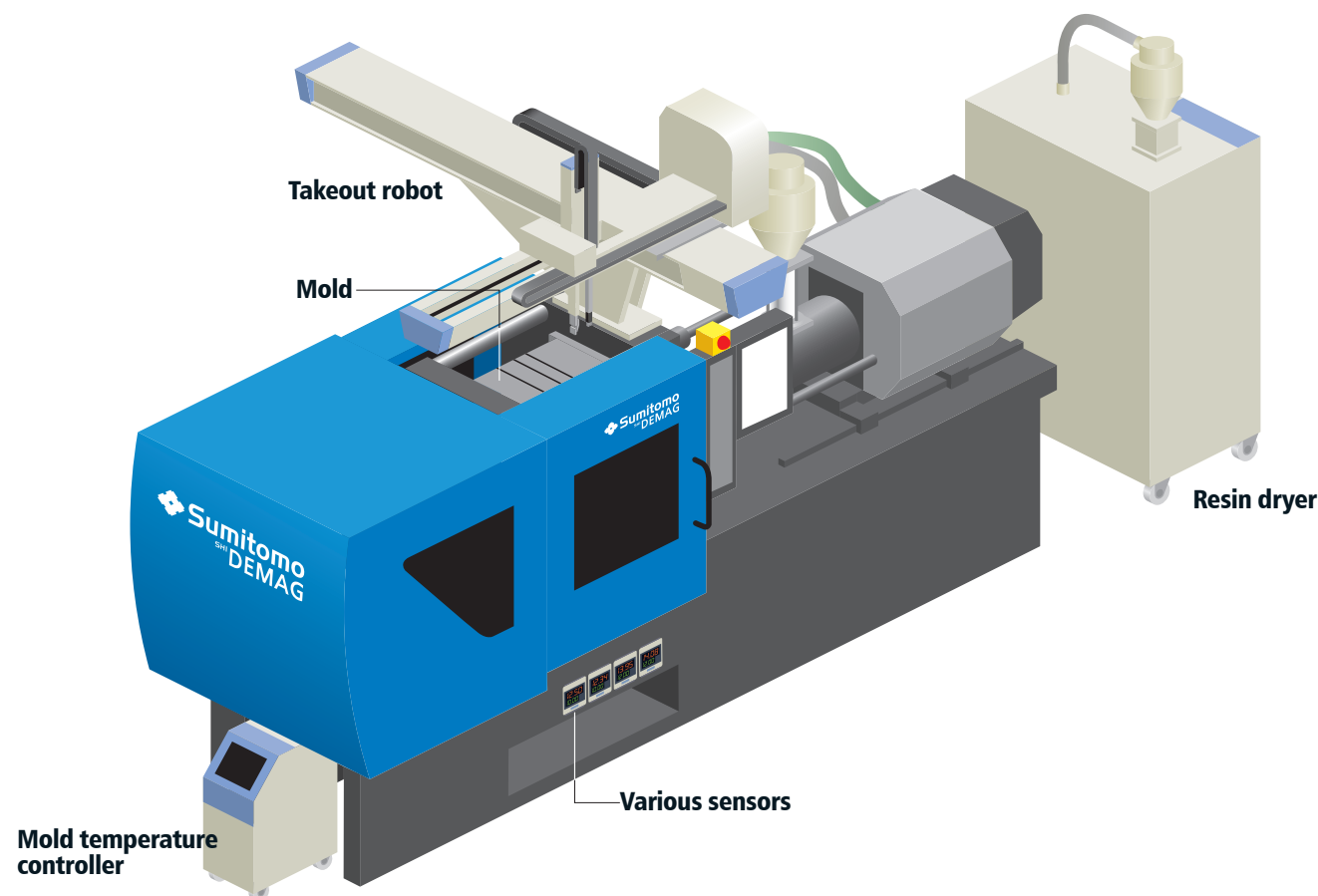
Efficient production management / All-encompassing quality control

Production control

Coordination with other factories

Information sharing / Production adjustments

Automatic setting of best conditions / Zero defects / Zero loss / Automatic setup / Low environmental load

Fully automatic AI-operated IMM

Automated resin supply

Taking-out and defectives removal

Centralized information management / Labor-savings / Molding proficiency not required / Remote maintenance

Robot operator

Automated mold changing

Assembly by collaborative robots

Final inspections

Automated transport of molded products

Automated packaging

Automated stocking

Product planning / Production instruction with best specifications

Product planning at headquarters

Information sharing / Remote instruction and operation

Remote access

Automated shipping

Broader, deeper and easier grasp of production information

All kinds of data vital to product quality are collected, integrated, then analyzed and logged with simple operations.

i-Connect
Production Quality Control System

i-Connect is a core application of ICT for production environment which integrates information from each production cell consisting of a molding machine, peripheral equipment and sensors. It improves monitoring and control of all production cells in leaps and bounds to enable sophisticated, borderless and effective quality control over both processes and products. Moreover, by connecting to upper control systems such as MES (Manufacturing Execution System), it can bring greater automation, labor-savings and efficiency to production environments. i-Connect is a core system to accomplish an automated and labor-saving near-future factory.

i-Connect
Production Quality Control System

MES Manufacturing Execution System**

Server

Terminals

i-Connect integrates information from a maximum 100 production cells* to give users meticulous centralized control over production quality.

MC Machining centers and machines in other factories

Production Cell — A production unit with a molding machine as the core

Takeout robot

Mold

Resin dryer

Various sensors

Mold temperature controller

The information from peripheral equipment and sensors is sent to the molding machine by M2M communications.

●Options are required to connect some ancillary equipment to the molding machine.

Production Cell

Utilities E W A

●*The maximum number of connectable machines varies according to server specifications.
●**The MES is to be prepared by the customer.

Build a smart information network

Networks with i-Connect as a core dramatically improve the efficiency of quality control operations.

i-Connect
Production Quality Control System

⚠️ ●For server recommendations, see pg. 17.
●The customer is responsible for preparing the environment for external connections.

Molding "visualized"

**Various information on molding is processed centrally.
Up to 100 molding machines can be managed on a single network.**

●The maximum number of connectable machines varies according to server specifications.
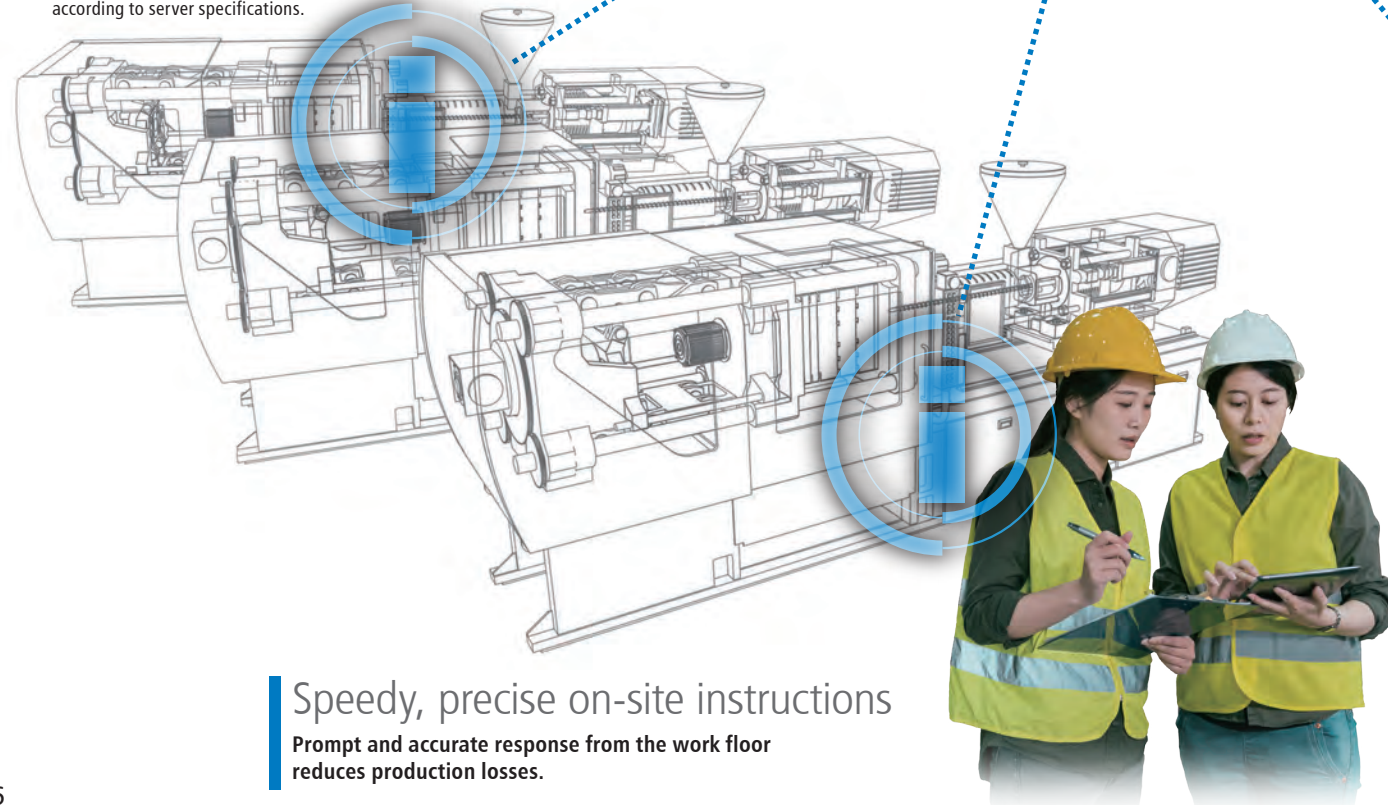
Speedy, precise on-site instructions

Prompt and accurate response from the work floor reduces production losses.

Information sharing with business partners

By sharing molding information in real-time, users can eliminate lost time and enhance reliability.
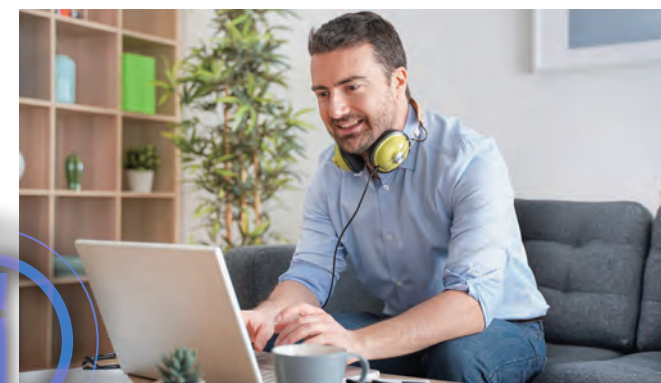
Telework options

i-Connect allows for new work styles in quality control.

Remote verification

Production quality can be understood in every detail without being physically present at the plant.

Direct access to information anywhere

Real-time information can be incorporated into meeting agendas.

Production control from remote location

The necessary information can be promptly communicated to operators from offices.

Broader grasp of information

i-Connect centralizes quality control information from your factories around the world and displays it through the intuitive visual that make production planning swift, efficient and effective.

Intuitive control on the entire factory with an overview list

Icon placement that matches the factory layout allows understanding of the operational status of each machine in an instant. It is also possible to display a list of operation transition or production progress graph for each machine.
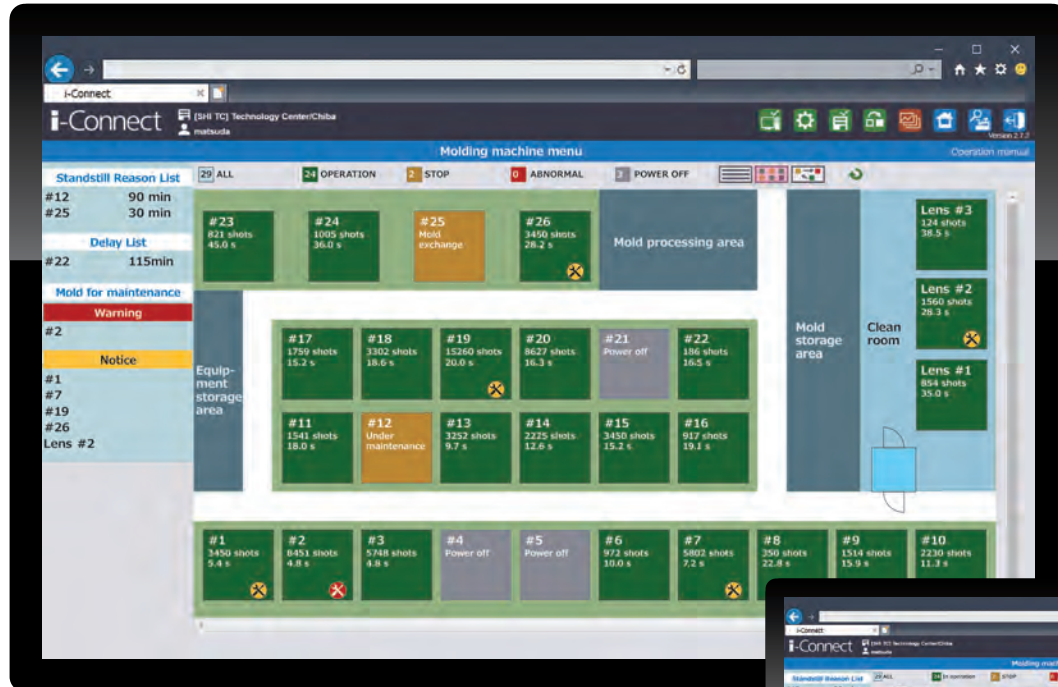
Molding Machine Menu
Displays all registered molding machines in each factory.
The layout can be changed at any time,
and the background image can also be set (floor layout etc.).
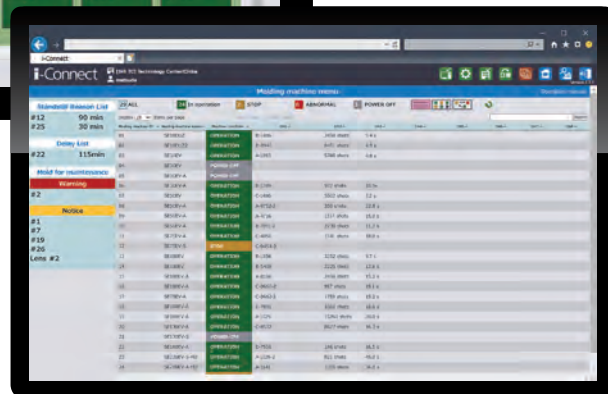
Molding Machine Menu (Listing mode)
It can also be displayed in list format.

Real-time understanding of the entire production cell

Acquires data such as temperature, operating status, etc. of peripheral devices, and displays them in a list.

● Separate molding machine option(s) might be required for connection with peripheral devices and sensors.
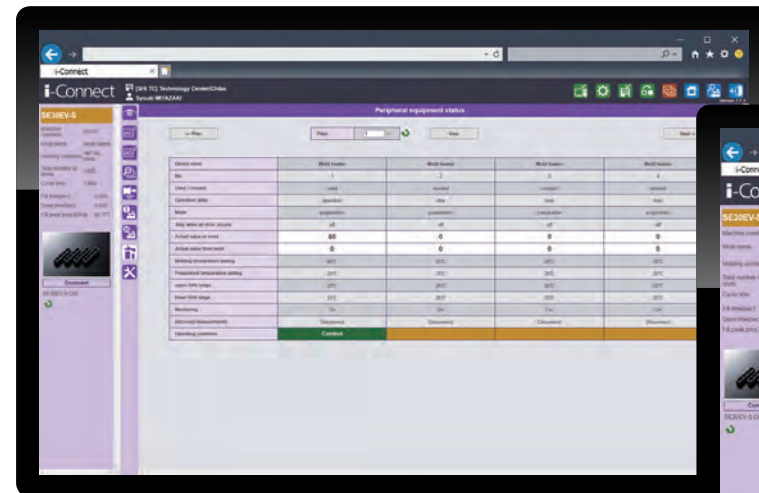
Peripheral Equipment Status
Displays the operating status and numerical data for peripheral devices connected to the selected molding machine.
This allows upper and lower limits to be set,
and issues warning when the monitored value is out-of-range.

Quality Control Chart
Understanding of the relationship between the actual temperature of the mold temperature controller and the filling peak pressure of the molding machine is also possible by comparing graphs.

Examples of Utilization

Production planning

Production can be appropriately planned because users get a quick look at the production progress and maintenance information.
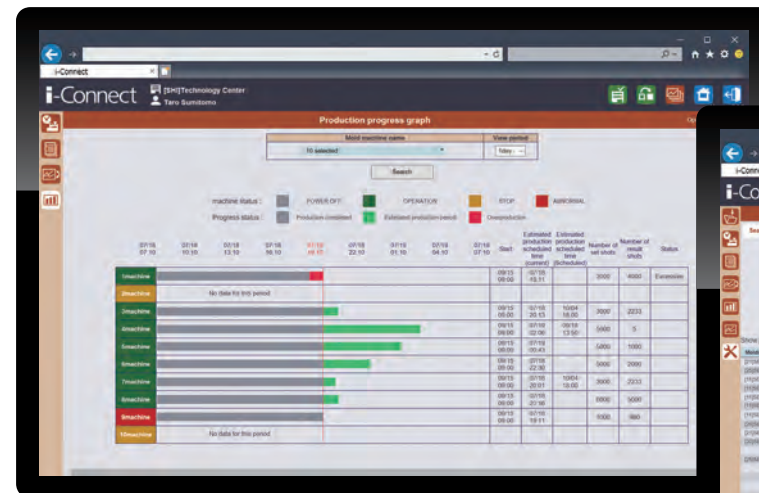
Production Progress Graph
Status and progress of each molding machine is centrally managed.
Users can spot under- or over-production at a glance.
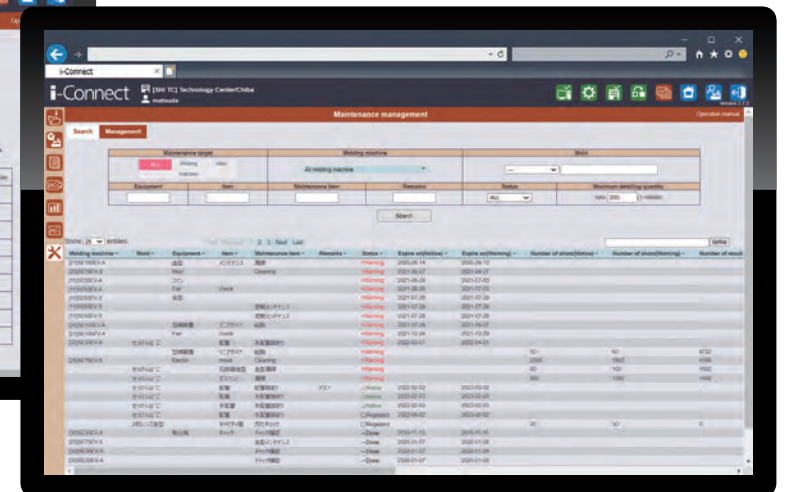
Maintenance Management
By setting maintenance intervals for molds and equipment parts,
trouble can be predicted, and maintenance performed properly.

#1 3450 shots 15.2 s   **#2** 8451 shots 12.3 s
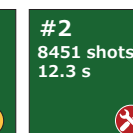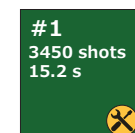
Maintenance Alerts
Alert icons are displayed over machine icons
on the Molding Machine Menu screen (left page)
when the maintenance period is approaching.

Deeper grasp of information

The ability to track production down to the behavior of a single shot on a single machine enables reliable traceability.

Time-based data management

History information of each lot can be collectively managed.
Machine running status or conditions that were logged during a certain period of time can be easily verified, which facilitates product tracing.
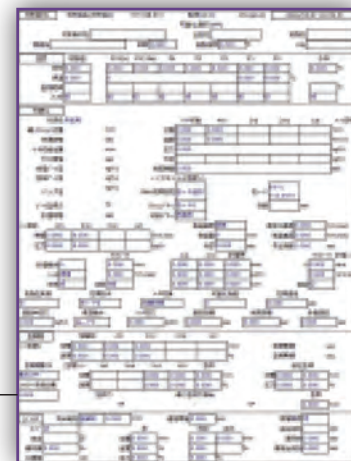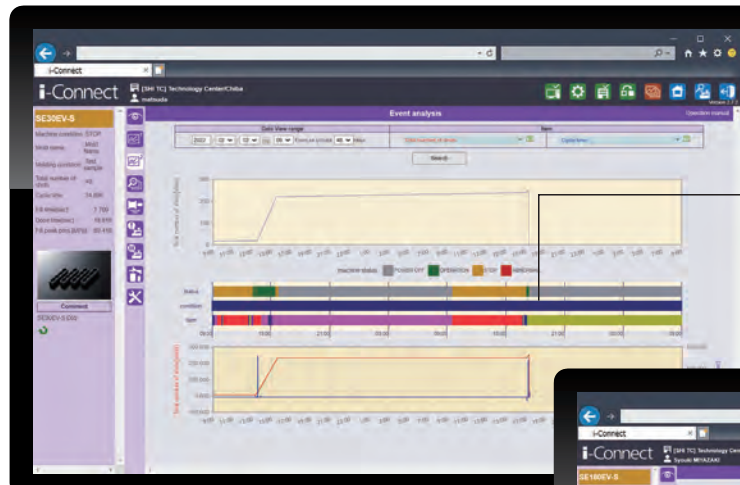
Calling and verification of molding conditions are possible.
●Image is blurred on purpose.

2 Event Analysis
Molding machine status, items, and condition alterations are displayed on a graph, and events searching is possible.
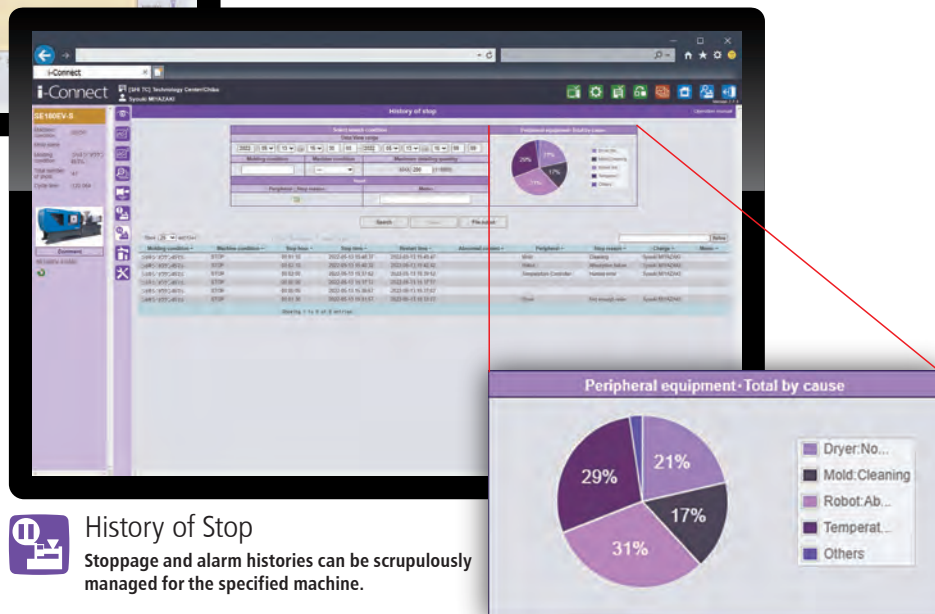
History of Stop
Stoppage and alarm histories can be scrupulously managed for the specified machine.
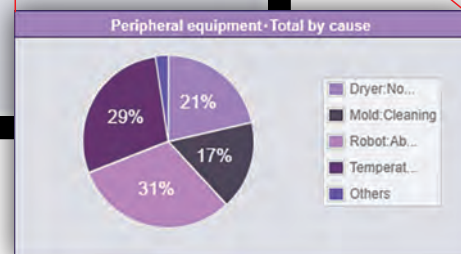
Allows input and analysis of the causes of stoppage.

Thorough data management down to each shot

Managing data by individual shots allows users to check back and verify whether products were being stably molded at any point in time, giving them a useful tool for building traceability systems and practices.
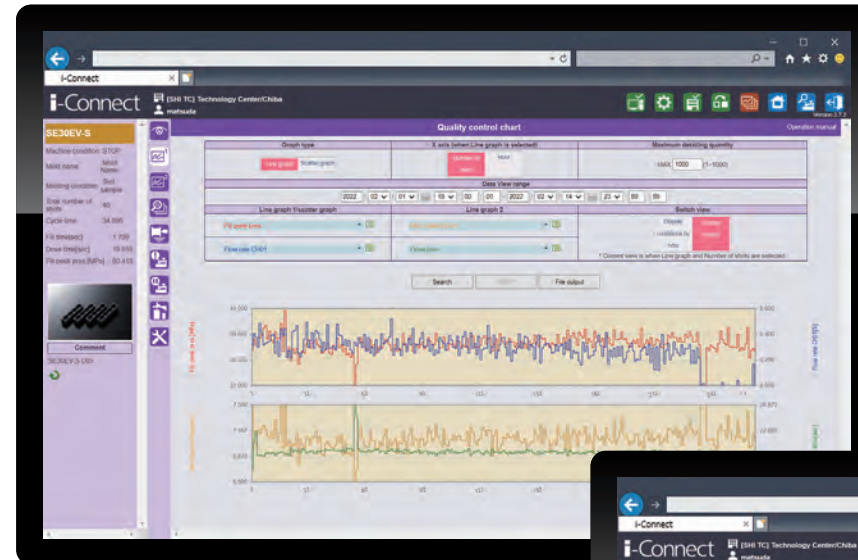
1 Quality Control Chart
Various data of the specified machine can be displayed as graphs.
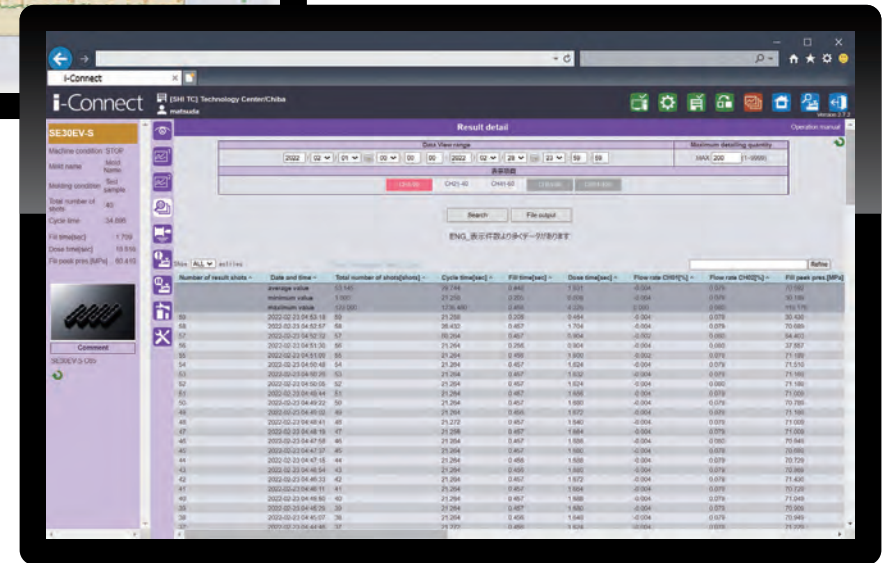
Result Detail
Data logged with every shot is aggregated to manage in bulk.
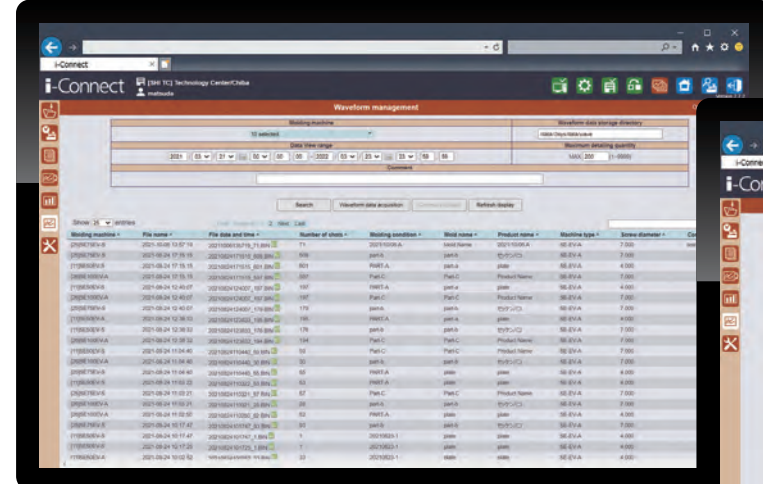
Waveform Management
Wave patterns are obtained for every shot on every machine. Understanding the correlations between these patterns and products increases the precision of quality control.
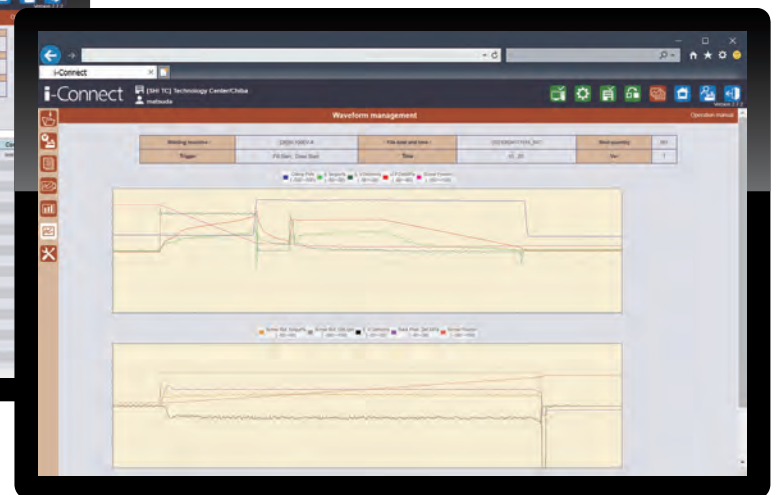
Easier grasp of information

i-Connect makes information sharing and internal/external collaboration smooth and speedy.
Human error can be eliminated by automating and going paperless.

Speedy error handling

Troubleshooting guide is available corresponding to the alarm number, leading to rapid error handling and reduction of downtime.
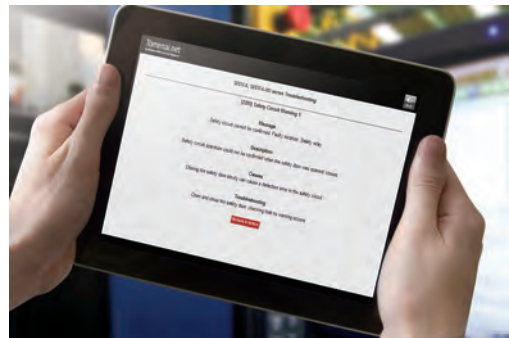
●This feature applies only to SE-EV, SE-EV-A, SE-EV-S, SE-EV-A-HD and SE-EV-S-HD series.
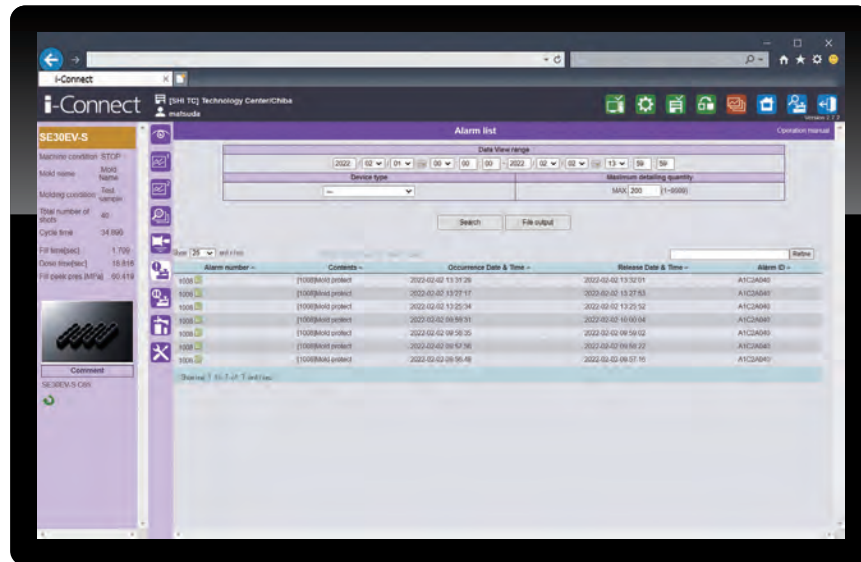
Alarm List
Displays the alarm history of the specified machine.

Automatic daily report generation

Daily data can be automatically compiled into a report and exported to a CSV file. This paperless operation enables a smooth handoff of work.
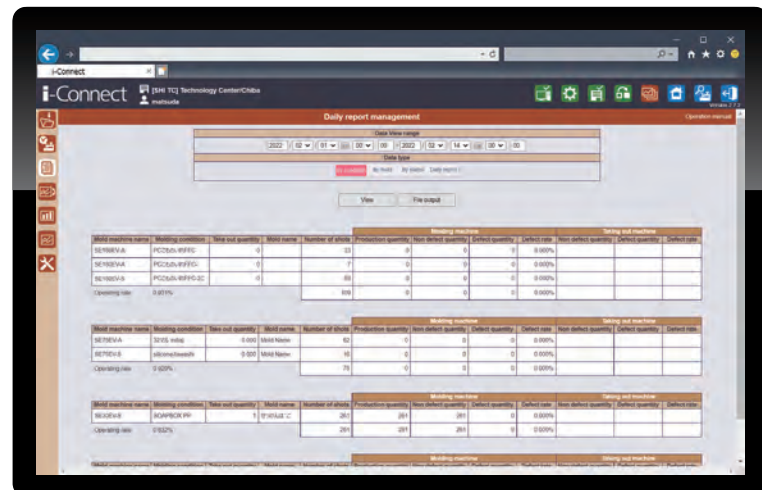
Daily Report Management
Displays daily reports based upon operating data of molding machines.

Trouble alerts in real-time

Users can stay abreast of operating status, trouble and other events via real-time alerts sent to smartphones, tablets or other devices even if being away from the line or factory.
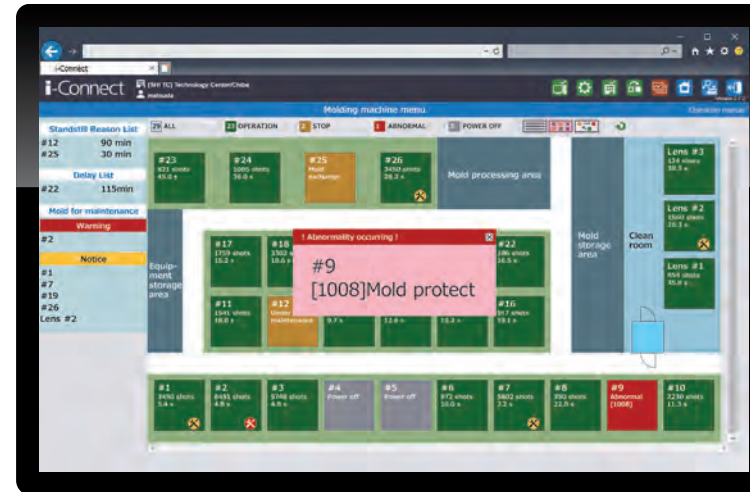
Molding Machine Menu
If trouble occurs, an alarm is sounded and a pop-up message noting the effected machine and error code appears.
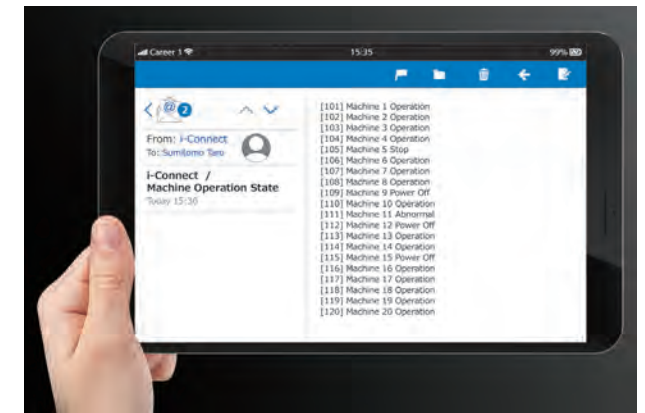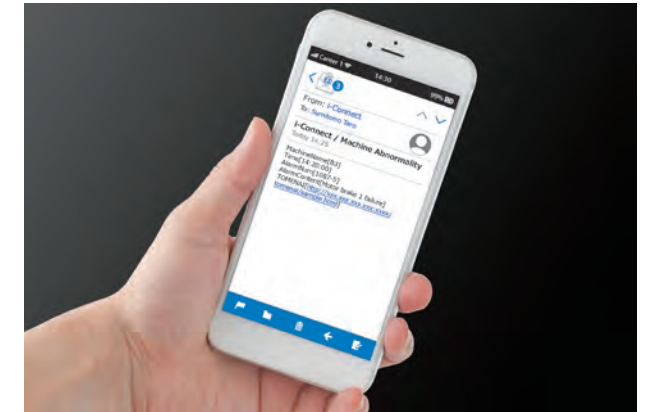
Running status and trouble alerts are sent to user-set email addresses.

Simple operation

Browser-based application means that there is no installation required. The graphical screen design supports intuitive, speedy operation.

Login

Molding Machine Menu

Molding Machine Information | Analysis | Setting
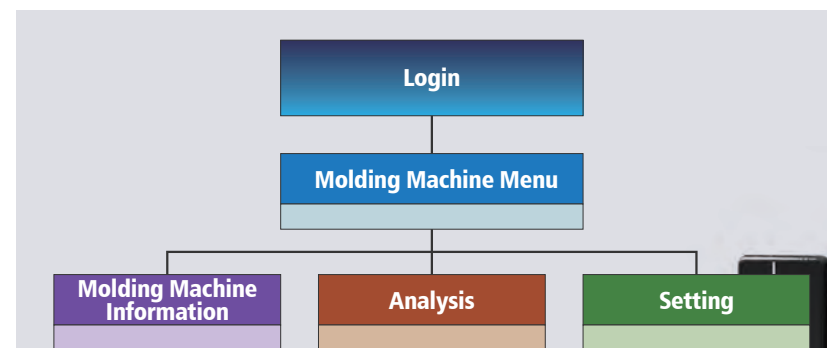
Coloring by category
Theme color is configured for each main item, providing an easy-to-understand screen configuration.

Dashboard
Summarized information for the selected machine is displayed as a list on screen.
On-site situation can be monitored by webcams.
●Webcams are to be prepared by the customer.

Examples of benefits
Quantified the benefits of using i-Connect

Examples of Benefits

●The function suggested by the photo is not a feature of i-Connect.

1 Identify causes of defects

Users can save a great deal of time when defects occur by eliminating the need to report to a supervisor, visit the site and make verifications in person.
This not only improves yield and decreases defects but also reduces wasted resin, which contributes to SDGs.

OK

| Operator reports defect to manager. | Manager visits site. | Trouble log is checked. | Molding conditions are checked. | Actual data is checked. | Problem is identified and operator fixes it. |

Usual process

Reduced man-hours
When operators use i-Connect, there is an additional reduction in man-hours.

| Operator reports defect to manager. | Manager utilizes Event Analysis. | Problem is identified and operator fixes it. |

Process when using i-Connect -1

$\geqq$ −50% **i-Connect** Production Quality Control System

| Operator utilizes Event Analysis. | Operator identifies and fixes the problem. |

Process when using i-Connect -2

■ Improve production yield
■ Reduce resin waste
■ Lower environmental load

2 Early discovery and recovery from short time breakdown

Trouble is immediately reported to the manager.
Rapid recovery is possible by accessing Tomenai.net (our production technology information website) to verify and respond to measures, resulting in improved operating rate and productivity.

Usual process

Operator — Discovers trouble. / Reports to manager.

Manager — Checks situation at site. / Calls for service.

Our service staff — Visits site and investigates issue. / Recovers operation. / Reports to manager.

Process when using i-Connect

Operator — Discovers trouble. / Recovers operation.

Manager — Receives trouble alert. / Identifies cause on Tomenai.net. / Instructs recovery action.

i-Connect is used for:
- Recording and reporting events
- Sharing information
- Compiling the cause as data and utilizing trouble analysis

Reduced down time
The time spent waiting for our service staff to arrive can be saved.

$\geqq$ −50% **i-Connect** Production Quality Control System

●Some situations may unavoidably require intervention by our service staff.

3 Daily report generation and CSV export

i-Connect automatically generates daily reports. Reports can be exported to PC as CSV files.
This greatly reduces desk work and time, and helps office workflows go paperless.
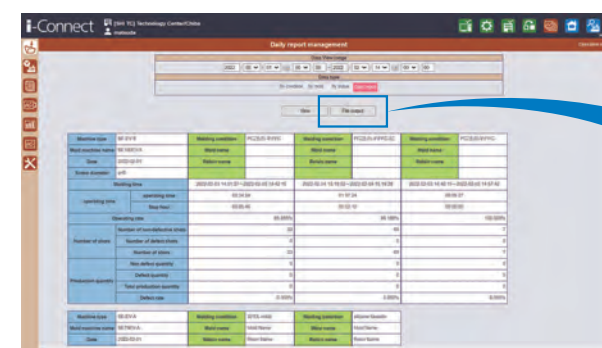
Reduced work time
The time required to manually prepare daily reports is reduced to zero.

−3,520 hrs per year **i-Connect** Production Quality Control System

●Basis for calculation:
Time required to record data: 10 min / Data recording frequency: Once every hour / Number of managed machines: 10 / Operators: 4 (1 per 2.5 machines) / Work period: 20 days/month, 11 months/year

Reduced management costs
Users are spared the time of data input as well as the cost of paper for printing reports.

−5,760 USD per year **i-Connect** Production Quality Control System

●Basis for calculation:
Cost incurred to prepare and collect reports, enter data in PC, purchase paper and archive reports: 60 JPY / Number of managed machines: 12 / Number of days running per year: 320 / 1 USD = 120 JPY
Formula: 0.5 USD x 3S x 12 x 320 = 5,760 USD

Higher reliability

We provide the most appropriate system with the recommended server.
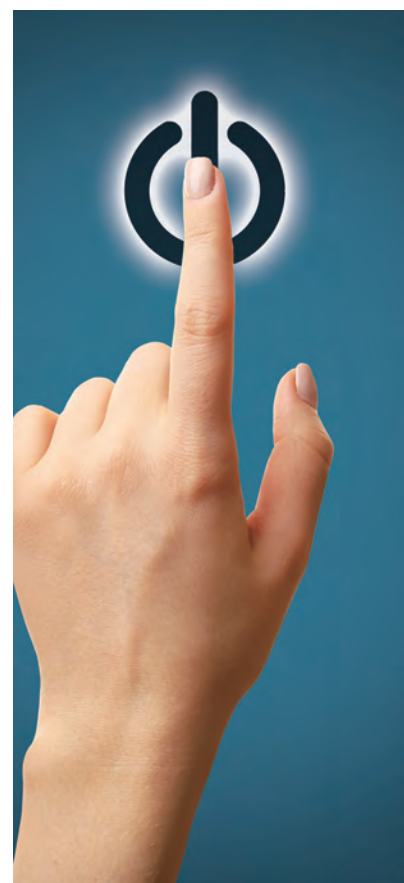
High-performance edge server

Our recommended server offers large storage capacity needed to handle the high-load data analysis at the edge of the user's network.
It can retain as much data as a data center, which can be used as big data.

Easy setup and complete security

Setup is quicker than usual because there are no applications to install.
Moreover, the server comes loaded with preinstalled security software to protect against data leaks and unauthorized access.

Robust design for factory environment

Durability-enhanced design supports a wide temperature range and guarantees stable operation even under harsh environmental conditions.

Support fast cycle molding and connection of multiple machines

A single server can manage a maximum of 100 machines and offers more than enough capacity to process the high-density data streams from fast cycle molding at 3-second turnout rates.

●The maximum number of connectable machines varies according to server specifications.

Global maintenance

These servers come with 5 years of free maintenance and a replacement of all parts except consumables is free of charge.

●Not applicable in some countries and regions.
●Maintenance requests are handled through our sales offices.
  Maintenance services are provided by technical staff from HPE (Hewlett Packard Enterprise).

Build the best operating environment

To use i-Connect in the best operating environment, we recommend introducing a high-performance edge server from HPE (Hewlett Packard Enterprise).

Server specification

Item	Standard	High-performance spec
Processor	2.6 GHz x 2 cores	2.0 GHz x 8 cores
Memory	8 GB	32 GB
Storage	SSD 960 GB	SSD 1920 GB, HDD 1 TB
Operating system	CentOS	CentOS
Data retention period	2 months	3 months
Backup capacity	Approx. 10 years' worth	Approx. 10 years' worth
Guaranteed performance	Max. 50 machines connectable	Max. 100 machines connectable

●The above server specifications are subject to change without notice.

Verify performance yourself

**We have posted a detailed movie about the i-Connect on YouTube.
You can access it from the QR Code and verify performance yourself.**

●QR Code is a registered trademark of DENSO WAVE INCORPORATED.

■ Main specifications

Molding machine menu

Icon	Name	Functions
	Molding Machine Menu	Showing all molding machines by factory / Trouble pop-up messages and alarms\
	Factory List	Displaying the number of active molding machines by factory / Displaying the corresponding molding machine menu of the selected factory
	Logout	Logging out of i-Connect and quitting the application

Molding machine information

Icon	Name	Functions
	Dashboard	Displaying molding machine status and operating ratio
	Quality Control Chart	Projecting and displaying molding machine data as graphs
	Event Analysis	Projecting and displaying molding machine status, control items or conditions as graphs / Searching for events
	Result Detail	Displaying actual values of user-selected control items (selectable up to 10 items)
	Molding Condition History	Displaying a history of changes to molding conditions
	Alarm List	Displaying a history of alarms
	History of Stop	Displaying a history of molding machine stoppages
	Peripheral Equipment Status	Displaying the status, set actual values of peripheral equipment
	Maintenance Management	Displaying a history of periodic maintenance performed on molding machines, molds and peripheral equipment

Analysis

Icon	Name	Functions
	Restore Backup Data	Reading automatic backup data
	Operation Trend	Displaying the operating status of the selected molding machine as a bar graph
	Daily Report Management	Viewing daily reports based on performance data from molding machines
	Overall Comparison	Displaying the status and progress of the selected machine as a graph
	Production Progress Graph	Displaying the yield for the set number of shots of each machine
	Waveform Management	Acquiring real-time wave patterns shown on molding machines
	Maintenance Management	Setting and displaying collective maintenance schedule for molding machines (max. 10), molds and peripheral equipment

Setting

Icon	Name	Functions
	User Management	Adding/Removing users, setting passwords and selecting languages
	Molding Machine Settings	Displaying a list of registered machines / Adding/Updating/Removing machines
	IP Address Diagnosis	Checking the network connection and IP address of machines included in connection settings
	Email Settings	Setting email function for status reports, trouble notices, etc.
	Molding Conditions	Displaying a list of current molding conditions (names) by machine
	Upload by Factory	Registering/Updating background image files by factory
	Server Machine Status	Displaying the time, available storage space, usage rate, memory usage and CPU usage of the server
	Client Status	Viewing client information of molding machines (Machine name, IP address, remaining drive capacity, communication status, etc.)
	Data Management	Backing up and restoring databases
	Privilege Management	Adding/Removing accessible functions, information displayed on molding machine menus and operating authorizations
	Factory List	Viewing/Adding/Updating/Removing factory information
	Token Settings	Converting/Adding/Updating/Removing tokens
	Access Log Confirm	Viewing screen operating logs by user
	Status Settings	Setting/Editing names and background colors of machine status indications
	Master Registration	Registering conversion tables (masters) / Converting machine alarms and system ID codes
	Channel Settings	Setting displayed information items for each machine
	Task Reservation	Resetting the displayed total downtime / Exporting the collected data to CSV files / Setting the time interval for automatic data backup
	Task List	Viewing/Searching/Deleting tasks / Canceling scheduled tasks / Viewing logs

■ Compatible molding machines

Molding machine model	Basic connection (30 logging channels, molding conditions, etc.)	Advanced connection (100 logging channels, peripheral equipment and sensor communications)
SE-D, SE-DU (Not connected to iii-System)	Communication software to be added	Communication software to be added
SE-D, SE-DU (Connected to iii-System)	Installed	
SE-DUZ	Installed	
SE-EV (Not connected to iii-System)	Communication software to be added	
SE-EV (Connected to iii-System)	Installed	
SE-EV-A, SE-EV-S, SE-EV-A-HD, SE-EV-S-HD	Installed	

● Molding machines require a LAN interface in all cases.
● The Advanced connection offers a higher level of sophistication. Molding machines require additional communication software to enable all connections.

■ System configuration and requirements

■ Tested browsers and versions: Internet Explorer 11.0/Firefox 61.0.1/Chrome 68.0
■ Communications environment: A wired connection is required between the main hardware (computer) and molding machines, to ensure stable connection. Reference devices such as laptop computers and tablets may use wireless connections.
● Internet Explorer is a registered trademark of Microsoft. Firefox is a registered trademark of Mozilla. Chrome is a registered trademark of Google.

■ Supported languages

i-Connect supports the languages below.
• English • Japanese • Simplified Chinese • Traditional Chinese • Korean

● To change the display language, users need to set language on the User Management screen, then logout and log back into the application.

■ IMPORTANT!

Users must build and prepare the network environment for using this application.
Sumitomo Heavy Industries, Ltd. bears no responsibility whatsoever for compensation and the like for damages caused to users or third parties, if the aforementioned system requirements recommended for this application are not built, the application is used improperly, or any part of this application has been modified, added to, deleted or duplicated upon using.