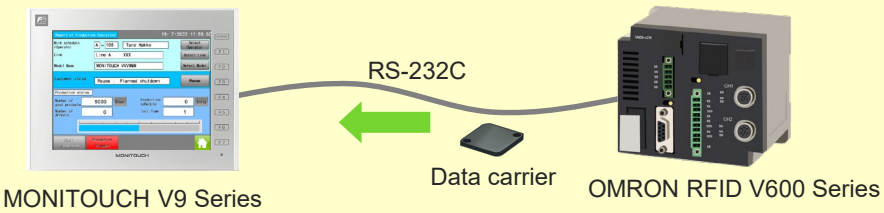
富士電機
MONITOUCH EXPRESS
Issue No. 161 (January 2023)

[Application Example]
RFID Controller (Omron V600 Series) Connection

Connecting MONITOUCH to an RFID controller provides the following benefits.

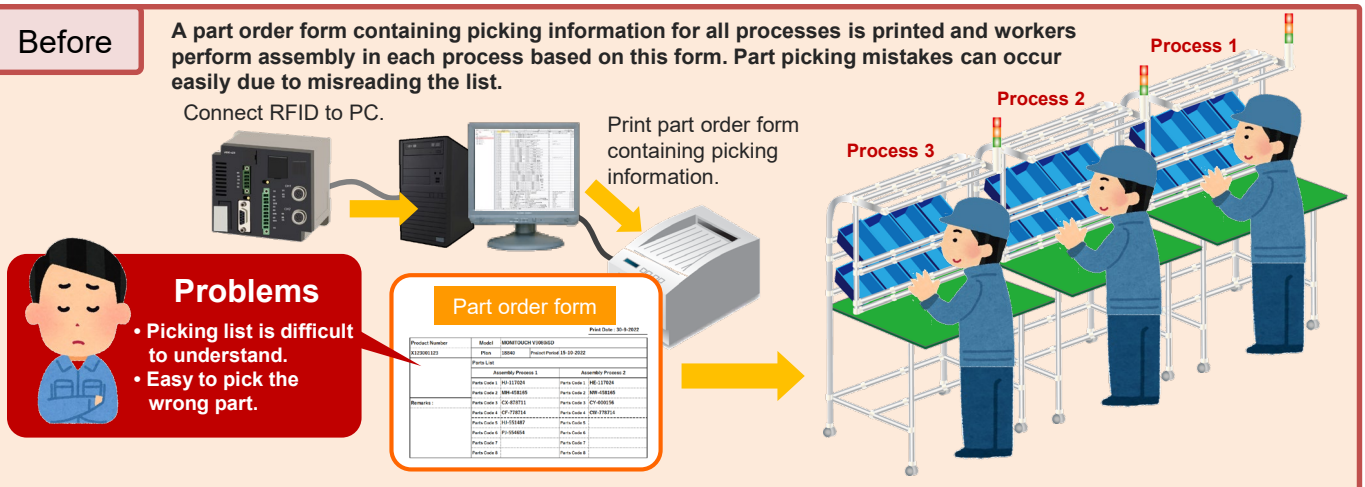
- Direct connection with an RFID controller eliminates the need for a PLC link unit thereby reducing costs.
- It is possible to process and display only necessary information on MONITOUCH, which allows for paperless work and therefore cost reduction.
- Operating information can be written to data carriers via MONITOUCH to eliminate recordkeeping hassles and mistakes.



Proposal for Reducing Picking Mistakes

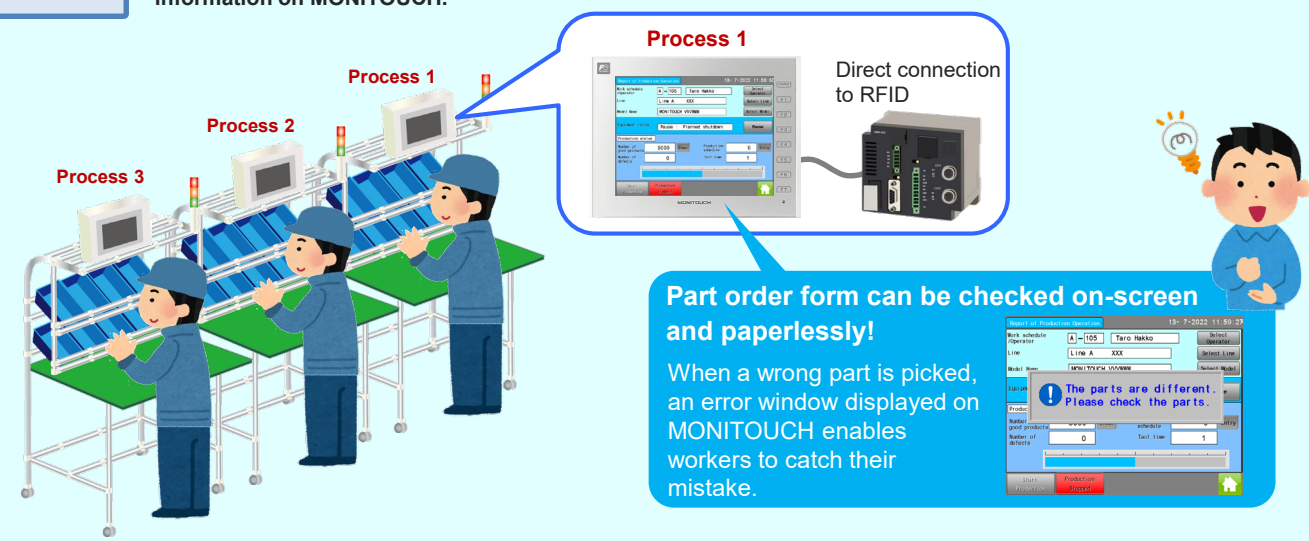
Before

A part order form containing picking information for all processes is printed and workers perform assembly in each process based on this form. Part picking mistakes can occur easily due to misreading the list.



After

Installing an RFID controller and MONITOUCH at each process enables unambiguous display of picking information on MONITOUCH.



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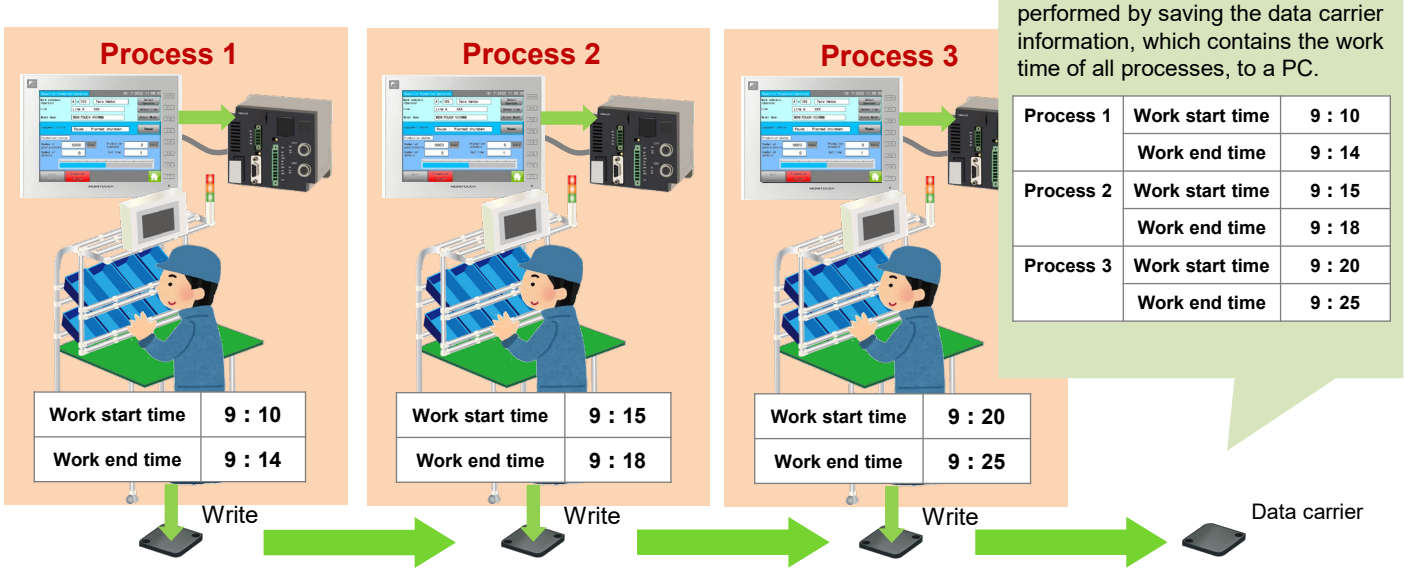
Proposal for Production Line Improvement

**Write work start and end times of each process to a data carrier.
Once the final process is finished, takt time can be checked by viewing the information on the data carrier.
This eliminates the hassle of workers measuring time using a stopwatch and allows for automation.**

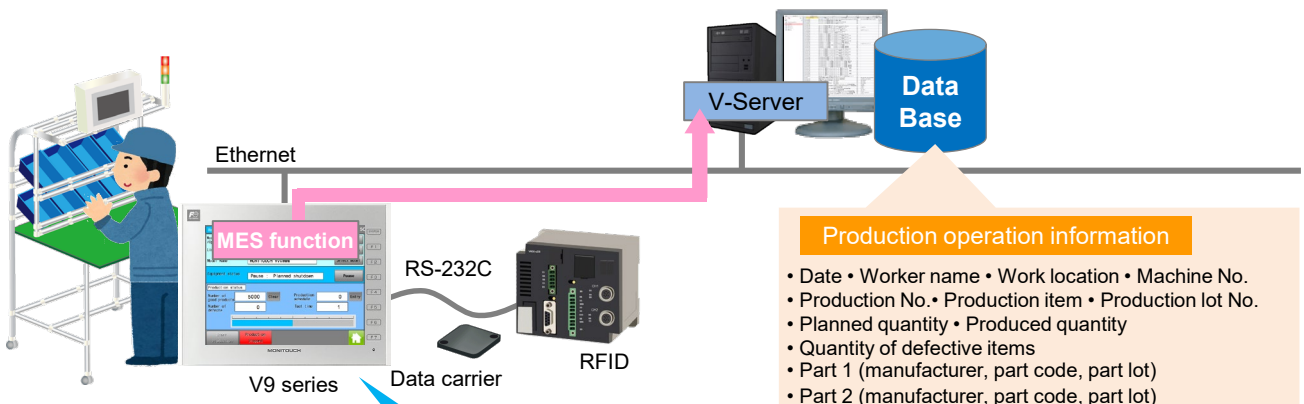


Takt time management can be performed by saving the data carrier information, which contains the work time of all processes, to a PC.

Process 1	Work start time	9 : 10
	Work end time	9 : 14
Process 2	Work start time	9 : 15
	Work end time	9 : 18
Process 3	Work start time	9 : 20
	Work end time	9 : 25

Proposal for Production Management System Improvement

**When managing various production information recorded on data carriers using a database, this information can be directly saved to a database on an upstream PC from MONITOUCH on the production floor. The workload required for system construction can be reduced since the RFID controller does not need to be connected to the PC.
(The separate "V-Server" remote monitoring software is required on the PC.)**



Production operation information

- Date • Worker name • Work location • Machine No.
- Production No.• Production item • Production lot No.
- Planned quantity • Produced quantity
- Quantity of defective items
- Part 1 (manufacturer, part code, part lot)
- Part 2 (manufacturer, part code, part lot)
- Part 3 (manufacturer, part code, part lot)...

Simple to achieve traceability support!

There is no need to develop a complicated system architecture.
Data can be transferred easily to a database using MONITOUCH and V-Server.

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