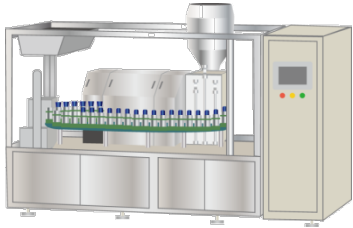# &lt;Useful Information&gt;
# - Stand-Alone MES Function -
# For Customers who Utilize Recipes + Macro Programs
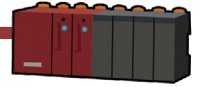
## Before

The recipe function is ideal for storing huge amounts of production data on an SD card and retrieving the data when necessary. However, in order to search for and retrieve the desired data from such huge amounts of data, macros must be programmed for searching and comparing conditions.

1) Retrieve all data

2) Searching all data using macros

3) Retrieve

CSV files

Equipment manufacturer

The more the necessary conditions, the more complex the macro becomes.

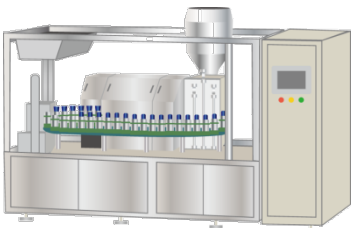Macro analysis when modifying the equipment is also hard work.

Since a macro is used to retrieve all data from CSV files and then another macro to search the data, it takes time. Performance drops too.

## After

By using the stand-alone MES function instead of recipes, the macros for searching can be simplified and the time necessary for performing searches on the MONITOUCH unit can be reduced greatly!
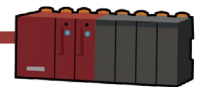
**Stand-alone MES**

Database in storage

1) Search

2) Retrieve

Equipment manufacturer

Data can be retrieved quickly because a database is used!

Since search conditions can be set in the screen program, macros can be built more easily!

Other than using a database instead of CSV files, the system configuration is the same as when using recipes.

**For sites that use huge amounts of production data, the stand-alone MES function\* is highly recommended.**

\* Building of a new database and storing data is executed by running the "MES_WRITE" macro from MONITOUCH.
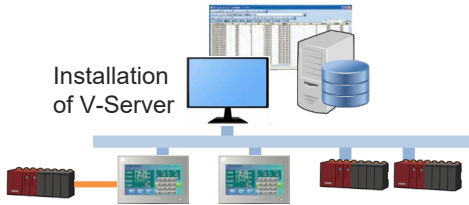
## What is MES?

*MES: Manufacturing Execution System

**An MES is used to understand and manage manufacturing processes and give work instructions. The MES function of the V9/X1 series allows adding, searching, and deleting data on databases of a host PC.**

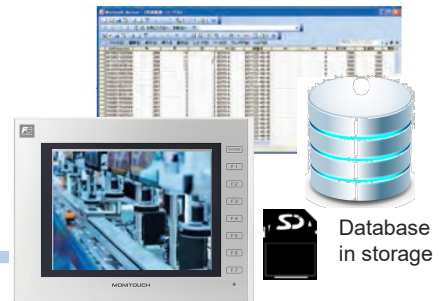<Conventional MES>
Accessing a host PC database via Ethernet

Installation of V-Server

**Our new proposal! Stand-alone MES**

GOOD!

**No need for V-Server or a host PC!**

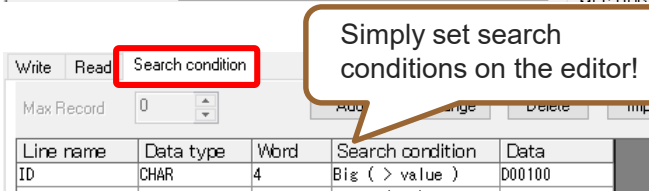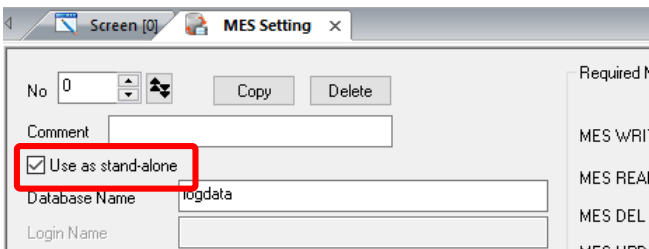**Functions are equivalent to those of the conventional MES!**

**The database is in the storage of the V9 series unit!**

Database in storage

**Stand-alone:**
An environment in which a computer or information device operates alone without connecting to or depending on a network, other devices, and software

## Setting Procedure

**Select the [System Setting] → [Other] → [MES Setting] → [Use as stand-alone] checkbox.**



Simply set search conditions on the editor!

There's no need to build complex macros or think out PLC ladders!

**This is highly recommeded for use as a new data management method!**