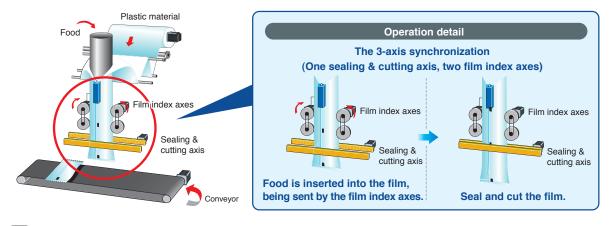




High Quality Production & Shorter Tact Time

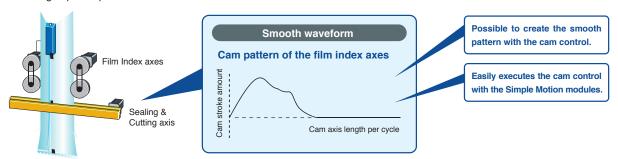
High-quality production is achieved by improving the process accuracy with the 3-axis synchronous control (One sealing & cutting axis, two film index axes). Eliminating an interlock also enables shorter tact time.



Solution 2 Cam Control

Smooth Sending & Stopping of the Film Material

Cam control enables the smooth sending and stopping of the film material. Thus high-speed operation and the shorter tact time are achieved.

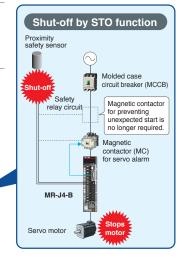


Solution Safety Functions

Compatible with Safety Functions IEC/EN 61800-5-2 as Standard

MR-J4-B series servo amplifiers have integrated STO (Safe Torque Off) function.

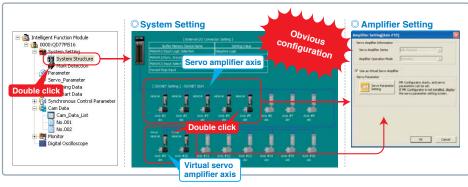
The machine can stop safely without turning off the main circuit power supply, cutting out the time for restart.



Setup procedure



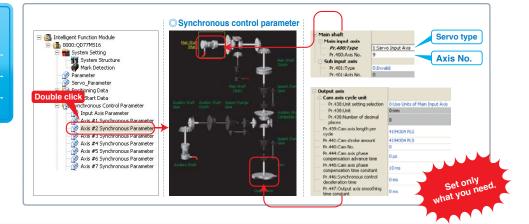
Set the servo amplifiers and virtual servo amplifiers.



Step2

Parameter Settings for Synchronous Control

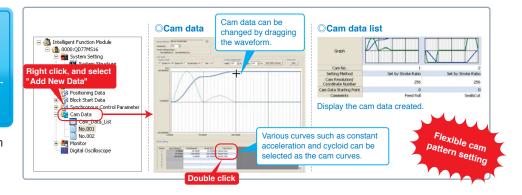
Set the axis-2 synchronous parameter for the axis-9 virtual servo amplifier.



Step3

Cam Data Creation

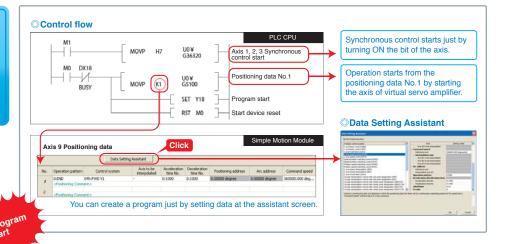
Create the cam data for the film index axes and the sealing & cutting axis.



Step4

Creation of Sequence
Program and
Positioning Data

Create a program that starts the synchronous control of the three axes (1 to 3) and the positioning operation of the axis 9.



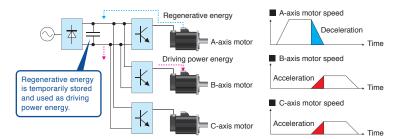
MELSERI/O-J4
Features

Reducing Power Consumption, Materials, and Wiring for Machines. The User Friendliness Strongly Supports Manufacturing Innovation.

Energy Saving Realizing Energy-conservative Machine Using Regenerative Energy

In the multi-axis servo amplifier, the regenerative energy of an axis is used as driving power energy for the other axes, contributing to energy-conservation of whole machine.

"Power Monitor function", which is available with the standard amplifier, enables the visualization of the power flow on screen.



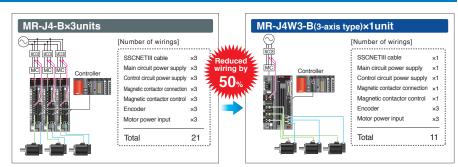
Resource Saving Reducing the Use of Valuable Resources

The new environment-friendly HG rotary servo motor series uses 30% less permanent magnet than the prior HF series due to the optimized design of magnetic circuit.



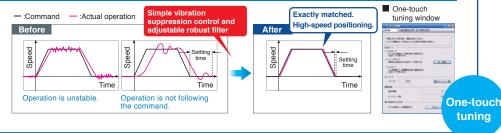
Reduced Wiring Sharing the Connections Drastically Reduces the Wiring

In 3-axis servo amplifier, the three axes use the same connections for main and control circuit power, peripheral equipment, control signal wire, etc. Thus, the number of wirings is greatly reduced.



Advanced One-touch Tuning Quick setting by Just One Click

Servo gains including machine resonance suppression filter, advanced vibration suppression control II, and robust filter are adjusted just by turning on the one-touch tuning function.



Man, machine and environment in perfect harmony

Solution



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