

Ethernet Connection

Settings

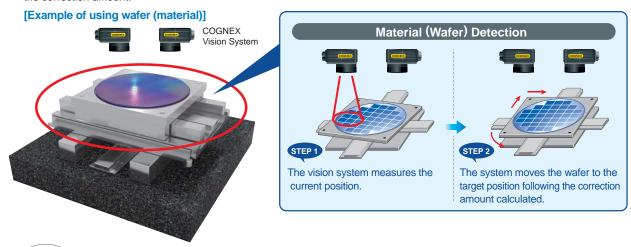
J4 Offering the Best Solution



Accurate Position Reading and Quick Location Readjustment



The vision system can easily read the current position, and quickly moves the material (wafer) to the target position, calculating the correction amount.



Solution 2

Direct Drive Motor

Direct Connection to Drive Parts for High Response and Accuracy

High-response, high-accuracy, and stabilized positioning are achieved by using the direct drive motor for rotary axes. This motor is also suitable for a low-speed and high-torque operation.



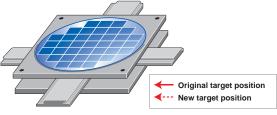
Solution 3

Target Position
Change Function

Flexibly Responding to Changes in the Target Position



When performing a position correction using the vision system data during positioning operation, the system can move the wafer to a new target position directly without starting positioning again. Thus shorter tact time is achieved.



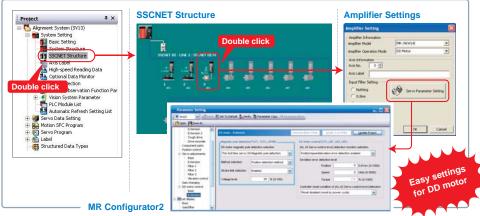
[Operation Example of Target Position Change Function]



Setup procedure

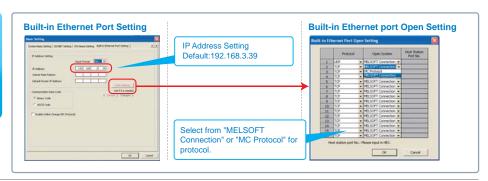


Set the servo amplifier.



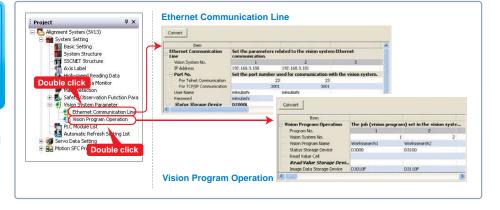
Parameter Settings for Ethernet Connection

Set the IP address of the Motion controller.



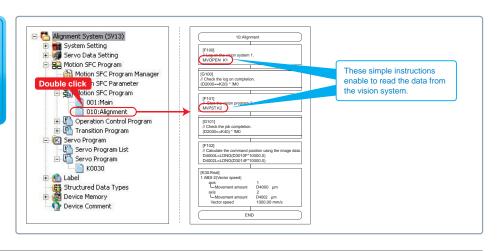
Vision System
Connection Settings

Set the parameter concerning the Ethernet communication and the vision program operation.



Motion SFC Program
Creation

Describe the vision system dedicated instructions, and then the positioning data from the vision system is possible to be read.

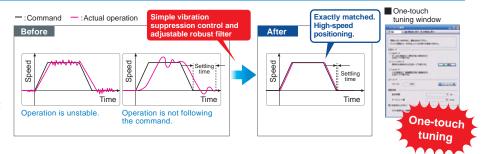


MELSERVO-J4 **Features**

The Servo Amplifiers, Servo Motors, and Optical Networks Linked in Symphonic Productivity

Quick Setting by Just One Click Advanced One-touch Tuning

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. Machine performance is utilized to the fullest using the advanced vibration suppression control function.



Flexibility

Applicable for Various Control and Driving Systems

MR-J4 series servo amplifier operates rotary servo motors, linear servo motors, and direct drive motors as standard.







Rotary servo motor

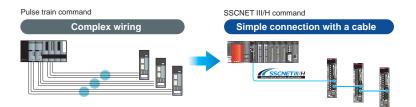
Linear servo motor

Direct drive motor

Reduced Wiring Dramatically Reduced Wiring

Simple connections with dedicated cables reduce both wiring time and chances of wiring errors.

No more complicated wiring.

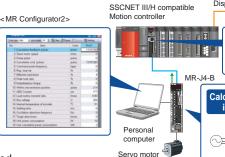


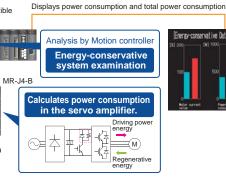
Power Saving

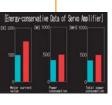
Power Monitor Function

Driving power and regenerative energy are calculated from the data in the servo amplifier such as speed and current.

Motor current value, power consumption, and total power consumption are monitored with MR Configurator2. In SSCNET III/H system, data are transmitted to a Motion controller, and the power consumption is analyzed and displayed.







Man, machine and environment in perfect harmony

Solution







HEAD OFFICE: TOKYO BUILDING, 2-7-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN NAGOYA WORKS: 1-14 YADA-MINAMI 5 HIGASHI-KU NAGOYA JAPAN