

Step1

Setup

**Procedure** 

**System** 

Configuration

Setting

Step2

**Paramete** 

**Settings** 

Step3

**Parameter** 

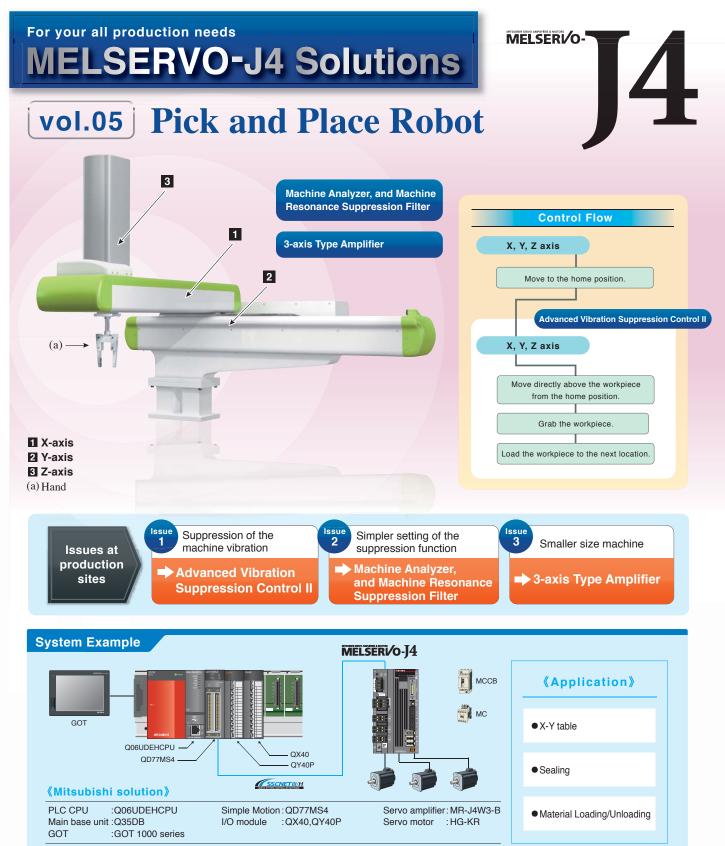
Settings for Vibration

**Suppression Control** 

Step4

**Positioning** 

**Data Settings** 



# Offering the **Best Solution**

Solution

**Advanced Vibration Suppression Control II** 

## **Effectively Suppressing Two Types of Low Frequency Vibrations**

Due to vibration suppression algorithm which supports threeinertia system, two types of low frequency vibrations are suppressed at the same time. Thus, the vibrations of the robot existing from its hand to base can be effectively suppressed with this function.

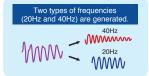






Advanced vibration suppression control One of them is suppressed. Advanced vibration suppression control II Both of them are suppressed

The number of filters is

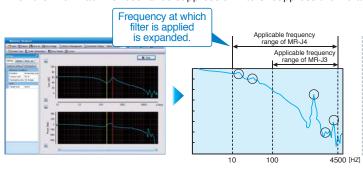


Solution 2

Machine Analyzer, and Machine Resonance **Suppression Filter** 

# **Easy Suppression of Multiple Vibrations with** the Machine Analyzer and Filter Option

First, the "Machine analyzer" function analyzes the machine frequency characteristics. Then the five "Machine resonance suppression filters" suppress the vibration.





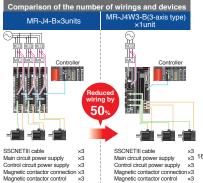
Solution 3

3-axis Type Amplifier

# **Designed to Cut Cost and Save on Space and Wiring**

#### **Reduced Wiring**

- SSCNET III/H compatible servo amplifier drastically reduces the wiring compared to the pulse train type.
- In 3-axis servo amplifier MR-J4W3-B, the three axes use the same connections for main and control circuit power, peripheral equipment, control signal wire, etc. Thus, the number of wirings and devices is greatly reduced.



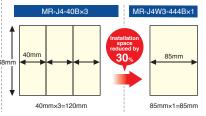
21

Encoder Motor power input

Magnetic contactor connect Magnetic contactor control Total 11

#### **Space Saving**

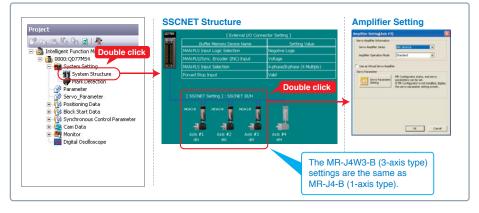
3-axis servo amplifier MR-J4W3-B requires 30% less installation space than three units of MR-J4-B.



# Setup Procedure

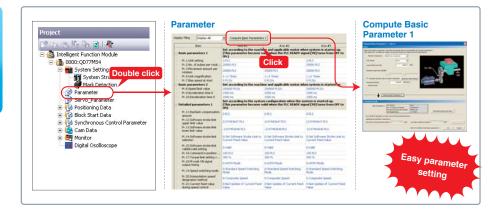


Set the servo amplifier.



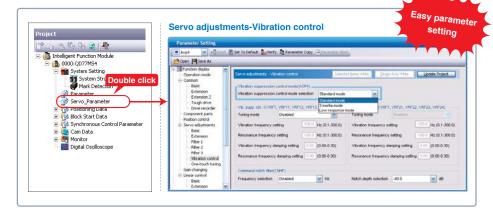
# Step2 Parameter Settings

Open the "Compute Basic Parameter 1" screen and enter the mechanical data there. The parameter for electronic gear is calculated using the data automatically.



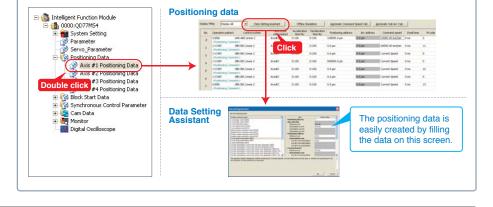


Select "Three-inertia mode" to start the "Advanced Vibration Suppression Control II".





Set the positioning data for each axis.



MELSERI/O-J4
Features

### **User-friendly Software for Easy Setup, Tuning and Operation**

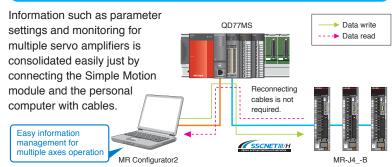
Easy to Use Easy Data Setting with the Servo Assistance Function

#### **Servo Assistant Function**

Complete setting up the servo amplifier just by following guidance displays.



#### **Using MR Configurator2 via Simple Motion module**

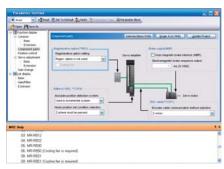


#### Easy to Use Setting without Manuals via Docking Window

#### **Parameter Setting Function**

Display parameter setting in list or visual formats, and set parameters by selecting from the drop down list. The details of the relevant parameters are displayed in a docking window, enabling the parameter setting without referring to the manual.





Display details of relevant parameters in a docking window.

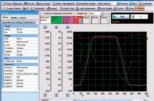
#### Easy to Use Easy Servo Adjustment and Maintenance

#### Graph Function Enhanced Function

The number of measurement channels is increased to 7 channels for analog, and 8 channels for digital. Display various servo statuses in the waveform at one measurement, supporting setting

and adjustment.





#### **Servo Amplifier Life Diagnosis Function**

Check cumulative operation time and on/off times of inrush relay. This function provides an indication of replacement time for servo amplifier

parts such as capacitor and relays.

Support the preventive maintenance of the servo amplifier.



Man, machine and environment in perfect harmony

Solution >







#### MITSUBISHI ELECTRIC CORPORATION

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