

Tightening & Press-fit Solution Control

1

Open-Loop Control for Screw Tightening



Reduced Torque Ripple Solution **During Conduction** 2

Great Improvement in Repeated Accuracy of **Screw Tightening**

By optimizing the combination of the number of motor poles and the number of slots, torque ripple during conduction is greatly reduced, which helps improve the accuracy of repeated operation of tightening screws.



Setup Procedure



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value can be set.

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MELSERIO-J4

The High Accuracy and Response Have Changed the MELSERVO AMPLIERE A MOTORS "Standard" of Machine Operation

Advanced Drive Control is Possible with Higher Speed Communication **SSCNET III/H**

Central Control with Network

Features

Large amounts of servo data are exchanged in real-time between the controller and the servo amplifier. Using MR Configurator2 on a personal computer that is connected to Q17nDSCPU/ Q170MSCPU Motion controller, or QD77MS simple Motion module helps consolidate information such as parameter settings and monitoring for the multiple servo amplifiers, etc.



Dramatically Reduced Wiring

Simple connections with dedicated cables reduce both wiring time and chances of wiring errors. No more complicated wiring.



Designed to Reduce the Number of Wirings and Devices Space-saving

The number of wirings and devices is greatly reduced by using MR-J4 series 2-axis/3-axis servo amplifiers. For example, 3-axis servo amplifier MR-J4W3-B requires 30% less installation space than three units of MR-J4-B.

<Space-saving>



Maintenance Support the Preventive Maintenance for Safety Operation

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.

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Machine Diagnosis Function

This function estimates and displays machine friction and vibration in normal operation without any special measurement. Comparing the data of the first operation and after years of operation helps to find out the aging deterioration of machine and is beneficial for preventive maintenance.



Man, machine and environment in perfect harmony

Solution



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