WARRANTY

1. Warranty Period and Coverage
   Global Partner. Local Friend.
   
   Should any fault or defect (hereafter called "failure") for which we are liable occur in this product during the warranty period, we shall provide repair services at no cost through the distributor from the date of delivery of the product to the end user, provided the product purchased from us in Japan is installed in Japan (but in no event longer than thirty (30) months, including the distribution time after shipment from us to the distributor). Should any fault or defect for which we are liable occur in this product installed in any country other than where it was purchased; please refer to "2. Service in Overseas Countries" as will be explained.

   The term of warranty for this product shall be twenty-four (24) months from the date of delivery of the product to the end user, provided the product purchased from us in Japan is installed in Japan (but in no event longer than thirty (30) months, including the distribution time after shipment from us to the distributor). Should any fault or defect for which we are liable occur in this product installed in any country other than where it was purchased; please refer to "2. Service in Overseas Countries" as will be explained.

   Note that, for the case where the product purchased from us in or outside Japan is exported and installed in any country other than where it was purchased; please refer to "2. Service in Overseas Countries" as will be explained.

   In the case where after receipt of the warranty from us, the product purchased is re-exported to any country other than that in which it was purchased, the warranty shall not apply. However, note that we shall provide, without charge, repair services at the distributor in the country of exportation (or the next country of importation) where the product is re-exported. In such cases, please contact the distributor in the country of importation for details.

2. Service in Overseas Countries
   Note that, for the case where the product purchased from us in or outside Japan is exported and installed in any country other than where it was purchased; please refer to "2. Service in Overseas Countries" as will be explained.

   Mitsubishi Electric or its distributor.
   This falls under the case where the product purchased from us in or outside Japan is exported and installed in any country other than where it was purchased.

   For details please contact the distributor from which the customer purchased the product.

   If the customer installs the product purchased from us in his/her machine or equipment, and export it to any country other than where he/she bought it, the customer may sign a paid warranty contract with us. In such cases, please contact the nearest Mitsubishi Electric or its distributor for details.

   The term of warranty for this product shall be twenty-four (24) months from the date of delivery of the product to the end user, provided the product purchased from us in Japan is installed in Japan (but in no event longer than thirty (30) months, including the distribution time after shipment from us to the distributor). Should any fault or defect for which we are liable occur in this product during the warranty period, we shall provide repair services at no cost through the distributor from the date of delivery of the product to the end user, provided the product purchased from us in Japan is installed in Japan (but in no event longer than thirty (30) months, including the distribution time after shipment from us to the distributor). Should any fault or defect for which we are liable occur in this product installed in any country other than where it was purchased; please refer to "2. Service in Overseas Countries" as will be explained.

3. Exclusion of Responsibility for Compensation against Loss of Opportunity, Secondary Damage, etc.
   (1) Damages caused by any cause found not to be the responsibility of Mitsubishi.
   (2) Loss in opportunity, lost profits incurred to the user by Failures of Mitsubishi products.
   (3) Even during the term of warranty, repair costs shall be charged to the customer in the following cases:
   (a) a failure caused by improper storage or handling, carelessness or negligence, etc., or a failure, etc. caused by the customer's equipment in which this product is incorporated is equipped with a safety device required by applicable laws or has any industry function or structure considered to be indispensable in the light of common sense in the industry.
   (b) a failure caused by any alteration, etc., to the product made by the customer without Mitsubishi Electric's approval.
   (c) a failure which may be regarded as avoidable, if the customer's equipment in which this product is incorporated is equipped with a safety device required by applicable laws or has any industry function or structure considered to be indispensable in the light of common sense in the industry.
   (d) a failure which may be regarded as avoidable if consumable parts designated in the instruction manual, user's manual, and the caution label affixed to the product, etc.
   (e) any replacement of consumable parts (including a battery, relay and fuse) that are duly maintained and replaced in accordance with the terms and conditions and instructions that are set forth in the instruction manual, etc. are duly maintained and replaced
   (f) a failure caused by external factors such as inevitable accidents, including without limitation earthquake, lightning, and natural disasters
   (g) a failure which is unforeseeable under technologies available at the time of shipment of this product
   (h) any other failures which we are not responsible for or which the customer acknowledges we are not responsible for
   (i) any failures that occurred during a trial run that may be required after a defective unit is replaced.
   (j) any failures that occurred due to improper installation or maintenance performed by the customer.
   (k) any failures that occurred due to any acts of God, such as war, civil disorder, etc.
   (l) any failures that occurred as a result of the customer's negligence in operating or maintaining the product.
   (m) any failures that occurred as a result of the customer's failure to follow the instructions or guidelines provided by Mitsubishi Electric.
   (n) any failures that occurred as a result of the customer's failure to properly maintain the product.
   (o) any failures that occurred as a result of the customer's failure to properly perform periodic maintenance.
   (p) any failures that occurred as a result of the customer's failure to properly perform routine maintenance.
   (q) any failures that occurred as a result of the customer's failure to properly perform preventive maintenance.
   (r) any failures that occurred as a result of the customer's failure to properly perform corrective maintenance.
   (s) any failures that occurred as a result of the customer's failure to properly perform maintenance.
   (t) any failures that occurred as a result of the customer's failure to properly perform any maintenance.
   (u) any failures that occurred as a result of the customer's failure to properly perform any maintenance tasks.
   (v) any failures that occurred as a result of the customer's failure to properly perform any maintenance activities.
   (w) any failures that occurred as a result of the customer's failure to properly perform any maintenance functions.
   (x) any failures that occurred as a result of the customer's failure to properly perform any maintenance procedures.
   (y) any failures that occurred as a result of the customer's failure to properly perform any maintenance steps.
   (z) any failures that occurred as a result of the customer's failure to properly perform any maintenance operations.
   
   Do not use this product in any applications other than those specified above, especially those that are substantially influential on the public interest or which are expected to have significant influence on human lives or properties.

4. Changes in Product Specifications
   Specifications shown in our catalogs, manuals or technical documents are subject to change without notice.

5. Product Application
   (1) For the use of this product, its applications should be those that may not result in a serious influence on human lives or properties.
   (2) Mitsubishi CNC is designed and manufactured solely for applications to machine tools to be used in the manufacturing of machine parts and the like.
   (3) When used for application that is not specified above, Mitsubishi Electric shall not be held liable for any accident or failure that may occur.
   
   Please confirm the following product warranty details before using MITSUBISHI CNC:

   (a) Warranty Period: Twenty-four (24) months from the date of delivery of the product to the end user.
   (b) Warranty Scope: Repair services at no cost through the distributor from the date of delivery of the product to the end user.
   (c) Warranty Exclusions: Expenses for repair costs shall be charged to the customer in the following cases:
   (d) Any failure caused by improper storage or handling, carelessness or negligence, etc., or a failure, etc. caused by the customer's equipment in which this product is incorporated is equipped with a safety device required by applicable laws or has any industry function or structure considered to be indispensable in the light of common sense in the industry.
   (e) Any failure which may be regarded as avoidable, if the customer's equipment in which this product is incorporated is equipped with a safety device required by applicable laws or has any industry function or structure considered to be indispensable in the light of common sense in the industry.
   (f) Any failure caused by any alteration, etc., to the product made by the customer without Mitsubishi Electric's approval.
   (g) Any failure which is unforeseeable under technologies available at the time of shipment of this product.
   (h) Any other failures which Mitsubishi Electric is not responsible for or which the customer acknowledges Mitsubishi Electric is not responsible for.
   (i) Any failures that occurred during a trial run that may be required after a defective unit is replaced.
   (j) Any failures that occurred due to improper installation or maintenance performed by the customer.
   (k) Any failures that occurred due to any acts of God, such as war, civil disorder, etc.
   (l) Any failures that occurred as a result of the customer's negligence in operating or maintaining the product.
   (m) Any failures that occurred as a result of the customer's failure to follow the instructions or guidelines provided by Mitsubishi Electric.
   (n) Any failures that occurred as a result of the customer's failure to properly maintain the product.
   (o) Any failures that occurred as a result of the customer's failure to properly perform periodic maintenance.
   (p) Any failures that occurred as a result of the customer's failure to properly perform routine maintenance.
   (q) Any failures that occurred as a result of the customer's failure to properly perform preventive maintenance.
   (r) Any failures that occurred as a result of the customer's failure to properly perform corrective maintenance.
   (s) Any failures that occurred as a result of the customer's failure to properly perform maintenance.
   (t) Any failures that occurred as a result of the customer's failure to properly perform any maintenance.
   (u) Any failures that occurred as a result of the customer's failure to properly perform any maintenance tasks.
   (v) Any failures that occurred as a result of the customer's failure to properly perform any maintenance activities.
   (w) Any failures that occurred as a result of the customer's failure to properly perform any maintenance functions.
   (x) Any failures that occurred as a result of the customer's failure to properly perform any maintenance procedures.
   (y) Any failures that occurred as a result of the customer's failure to properly perform any maintenance steps.
   (z) Any failures that occurred as a result of the customer's failure to properly perform any maintenance operations.
   
   Mitsubishi Electric shall not be held liable for any failure or defect that may occur in this product during the warranty period.

6. Contact Information
   CHIYODA-KU, TOKYO 100-8310, JAPAN
   HEAD OFFICE: TOKYO BLDG., 2-7-3 MARUNOUCHI,
   For details please contact the distributor from which the customer purchased the product.
   
   If the customer installs the product purchased from us in his/her machine or equipment, and export it to any country other than where he/she bought it, the customer may sign a paid warranty contract with us. In such cases, please contact the nearest Mitsubishi Electric or its distributor for details.

All trademarks acknowledged.
**E80 Series**

The CNC E80 Series boasts drastic improvements in performance and a higher accuracy than ever before. The simple and easy-to-use E80 Series helps in achieving a greater cost performance, and fits best with simple machine configurations.

**Drastic improvements in performance**

*CNC-dedicated CPU*

With Mitsubishi Electric’s high-speed CNC-dedicated CPU, the E80 Series reduces cycle times due to a higher program and PLC processing capability. Higher optical communication speeds between the CNC and drive achieve higher accuracy in machining.

**Models for various machine configurations**

*TypeA/TypeB*

TypeA and TypeB models are available for both machining centers and lathes. Select the model with the specifications that suit the machine configuration best.

- **Machining center system**
  - TypeB supports machines with up to 3 axes.
  - TypeA supports the setup of a rotary table.

- **Lathe system**
  - TypeB controls 3 feed axes and 2 spindles as standard. Select TypeA for configurations that have a maximum of 3 spindles such as compound lathes.

**Leading design**

*Display Units and Keyboards*

The E80 Series adopts the M800/M80 Series design. The display unit and keyboard are only 9.5 mm thick, and their flat profile opens up new possibilities for machine design.

- There are 2 types of keyboard layouts, one for lathes and the other for milling.

**Specifications**

- **Max. number of part systems**
  - E70: 1, E80 TypeA: 1, E80 TypeB: 1
- **Max. number of axes**
  - E70: 1, E80 TypeA: 2, E80 TypeB: 2
- **Max. number of NC axes**
  - E70: 4, E80 TypeA: 5, E80 TypeB: 5
- **Max. number of spindles**
  - E70: 3, E80 TypeA: 4, E80 TypeB: 4

**Table:**

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The CNC E80 Series boasts drastic improvements in performance and a higher accuracy than ever before. The simple and easy-to-use E80 Series helps in achieving a greater cost performance, and fits best with simple machine configurations.
ENHANCED LATHE SYSTEM

The E80 Series comes with enhanced high-accuracy control functions for lathes with milling functions as standard. Functions such as the interactive cycle insertion function make programming easier, improving operability.

Pursuing usability

The Simple Monitor Screen

The simple monitor screen puts all the essential information for mass production on one screen, making it simple to find information immediately. Information such as the selected tool and the remaining lifetime can be checked by viewing the tool icon.

Reduce setup time

Workpiece Coordinate System Shift

The same machining program can be used when the workpiece coordinate system does not match the actual workpiece coordinate system, or when the actual workpiece length is different. This function helps to create machining programs easier.

Improved machining accuracy

High-accuracy Control

E80 Series high-accuracy control minimizes deviation of the actual tool path from the command path, improving the accuracy of the machining of corners and arcs.

Flexible commands

Diameter/Radius Designation Switch

Flexible commands allow the user to switch between diameter/radius designation for each axis with the G-code at any time. Flexible commands are particularly useful for programs where turning and milling coexist.

Applicable to a wide array of machine specifications

Synchronous Tapping with Analog I/F Spindle

Synchronous tapping can be performed with an analog-connected spindle such as an Inverter without using a dedicated tool holder. The applicability to a wide array of machine specifications allows for more efficient machining.

Easier program creation

Interactive Cycle Insertion

Create a machining program automatically by inserting a machining shape in a selected machining cycle. Interactive cycle insertion enables the user to create programs intuitively while referring to drawings on the screen, reducing the time required for program creation compared with G-code input.

Easier program creation

Finish Shape View Programming

The finish shape is displayed in 3D while creating a machining program. Checking the finish shape in real-time during program creation allows the user to correct mistakes as they appear in the finished shape.

Easier program creation

Program Check Operation

Check the machining program while viewing the actual operation of the machine. Also, forward run/reverse run operation can be checked meticulously at a desired feedrate (manual handle feed), making prototype checks more accurate and easier than before.

Program finalization

3D Solid Program Check

3D solid program check allows the user to check a finalized machining program against the 3D graphic of the final shape for the program. Being able to perform a detailed check of the final shape before production on the actual machine is a major advantage.
ENHANCED MACHINING CENTER SYSTEM

The eSSS control function responds to the growing demand for high-quality machining even in basic machine configurations. The E80 Series reduces non-cutting time, improving productivity at production sites.

Pursuing usability
The Simple Monitor Screen
The simple monitor screen puts all the essential information for mass production on one screen, and is easy to view from distance. The screen configurations (simple/normal), and the types of counters being displayed can be changed using the screen menu, making the customization of displays easier than before.

Reduce setup time
Workpiece Position Measurement
The coordinate points can be measured on the workpiece measurement screen, and values automatically calculated from the measured coordinates are set. Manual measurements using jigs or dial gauges are no longer necessary.

Applicable to a wide array of machine specifications
Synchronous Tapping with Analog Spindle
Synchronous tapping can be performed with an analog-connected spindle such as an inverter without using a dedicated tool holder. The applicability to a wide array of machine specifications allows for more efficient machining.

Applicable to a wide array of machine specifications
Multiple-axis Synchronization Control
This function enables the synchronous control of multiple 2 axes. Synchronizing multiple axes enables the controlling of machines that perform the same operation over multiple axes such as multi-head machines. The tool length for each Z axis can be compensated individually, and it improves machining accuracy.

Contribute to high-accuracy machining
OMR-FF Control
OMR-FF control adjusts the optimal position loop gain for each axis, leading to smoother and more accurate machining.

Contribute to high-quality machining
eSSS Control
When the tool passes through the corner portion at high acceleration and high speed, eSSS control determines the machining shape comprehensively, suppresses excessive feedrate change and vibration, and smoothens the operation. This ensures consistent high-quality machining which is not affected by the quality of machining programs.

Easy operation, high quality
Tolerance Control
This function determines the optimum clamp speed for corners or curves based on the designated tolerance to perform operations. It also ensures smooth passing in corner sections within the tolerance range, which suppresses machine vibrations. The cycle time is reduced because the clamp speed can be increased to a higher speed than usual. Simply set the amount of tolerance, and the machine operates at the optimal speed and tool path, making it easy to achieve a high-quality machined surface.

1. The control process of this function is equivalent to "SSS Control" (Super Smooth Surface Control) of the M800/M80 Series.

Some of the relevant parameters are /f_ixed for this function, however "SSS Control" can be used by making some simple settings.
FACTORY-WIDE OPTIMIZATION

Enhanced traceability helps visualize factory-wide operation MEB Interface Library

E80 Series CNC is equipped with the MEB interface function, through which the CNC automatically sends SQL statements to the production control system database upon completion of cutting or occurrence of an alarm. This can significantly increase traceability throughout the factory. This transparency helps optimize production planning and management. Quality control can also be easier through visualization of alarm history and the production results based on the basic unit specific to each workplace.

Moreover, when control is combined with the EcoMonitorLight power consumption monitor and the thermal sensor unit, operators can monitor not only CNC status, but also the energy consumed by the machines.

Remote confirmation of machine status
Email Notification to Operator

This sends you an e-mail about machine condition automatically at the specified timing to a computer, tablet or smartphone. No dedicated line is needed, so you can set up easily.

Machine condition can be monitored at anytime, anywhere. This helps you to deal with emergent situations timely, leading to shorter downtime and higher productivity.

Wider compatibility with peripheral devices
Connection to Various of Field Networks

By inserting an optional card in the slot on the back of the display unit, CNC can support CC-Link (master/local), PROFINET-DP (master), and EtherCAT® connections, making it possible to connect with many peripheral devices through a wide range of field networks.

FACTORY-WIDE OPTIMIZATION

SPECIFICATIONS
**Drive Systems**

**High-performance Servo/Spindle Drive Units**

- **MDS-E/EH Series**
  - This servo control dedicated core processor realizes improved control speed, leading to enhanced basic performance. When combined with a higher resolution motor sensor and advanced high-speed optical communication, this drive contributes to high-speed, high-accuracy control.
  - The motor power connector is equipped with an anti-misinsertion mechanism. This helps to eliminate connection errors.
  - Improved diagnostic and preventive-maintenance features.
  - Safety support sensors are included as standard specification. Sensor connectors are also incorporated as additional safety features.

**Medium-inertia, High-accuracy, High-speed Motors**

- **HG Series**
  - Sensor resolution has been significantly improved. The servo motors, which boast smooth rotation and outstanding acceleration characteristics, are well suited to serve as fixed axis of machine tools.
  - Range: 0.75 to 12 [kW]
  - Maximum rotation speed: 8,000 [r/min]
  - Options for mold specification and cooling jacket specification are prepared.

**Linear Servo Motors**

- **LM-F Series**
  - Use in clean environments is possible since no ball screws are used, eliminating possible contamination from grease.
  - Elimination of transmission mechanisms, including backlash, enables smooth, quiet operation even at high speeds.
  - Range: Maximum thrust: 900 to 18,000 [N·m]

**Direct-drive Servo Motors**

- **TM-RB Series**
  - High-torque, direct-drive motors combined with high-gain control provide quick acceleration and positioning, which makes rotation smoother.
  - Suitable for rotary axes that drive tables or spindle heads.
  - Range: Maximum torque: 36 to 1,280 [N·m]

**Spindle Motors**

- **MDS-EJ/EJH Series**
  - The multi-hybrid drive units are capable of driving a maximum of three servo axes and one spindle. This contributes to the downsizing of machines and offers technical advantages.
  - The motor power connector is equipped with an anti-misinsertion mechanism. This helps to eliminate connection errors.
  - Fan unit contributes to easier fan exchange.
  - MDS-EJH 400V system drive unit is available.

- **SJ-D Series**
  - Motor energy loss has been significantly reduced by optimizing the magnetic circuit.
  - High-speed bearings are incorporated as a standard feature, helping to achieve higher speed, lower vibration and improved durability.
  - Additon of S3 rating (%ED rating) has improved output and torque acceleration/deceleration characteristics.
  - Balance adjustment ring added to the counter-load side for fine tuning.
  - Range: Normal SJ-D Series: 3.7 to 11 [kW]
  - Maximum speed: 10,000 or 12,000 [r/min]

- **SJ-DG Series**
  - This series of spindle motors is dedicated to use in tapping machines that require faster drilling and tapping.
  - The latest design technologies have made it possible to attain lower vibration and greater rigidity even with the lighter weight.
  - Range: 0.75 to 7.5 [kW]

* Use Mitsubishi CNC's dedicated drive unit and motor.

(Note 1) For servo motors only
(Note 2) Options supported. (Flange size 90SQ only)
SOFTWARE TOOLS

**Software Process Flow**

1. **Machine design**: Initial parameters and machining parameters are determined to optimize the servomotor. This function automatically calculates the spindle acceleration/deceleration time and selects the optimum power supply module.

2. **Electrical circuitry design**: The machine is designed with servo motor selection and SERVO/SPINDLE adjustment.

3. **Machine assembly and adjustment**: Users can check and set the parameters by machine tool builders. This function also facilitates program development of the user PLC to be developed by machine tool builders and debug it and check the operations of customized screens.

4. **Operation and maintenance**: Machine tool builders and users can monitor the status of multiple CNCs on one computer.

**Application Development Support**

- **Example of application**: Software development is supported by a bunch of API functions. They facilitate development of Windows applications which require connection and communication with Mitsubishi CNCs. You can use the common interfaces for any Mitsubishi CNC model, which leads to high efficiency in development.

- **Development language**: 
  - Development languages: Visual C++, Visual Basic, Visual Basic .NET
  - Data selection/monitoring
  - Production control

- **Example of communication with CNC**: 
  -ACQUISITION of coordinate value, alarm/diagnosis information
  -Programmable NC data such as tools and variables
  -Diagnostic device information

**Mitsubishi CNC Communication Software (FCSB1224W000)**

This software provides a bunch of API functions. They facilitate development of a Windows application which requires connection and communication with Mitsubishi CNCs. You can use the common interfaces for any Mitsubishi CNC model, which leads to high efficiency in development.

(*) The compatible model is Mitsubishi CNCs after M700/M70.
GLOBAL SALES & SERVICE NETWORK

Providing reliable services in regions around the world  
- our Best Partner commitment to you -
1. Warranty Period and Coverage

Should any fault or defect (hereinafter called "failure") for which we are liable occur in this product during the warranty period, we shall provide repair services at no cost through the distributor from which the product was purchased or through a Mitsubishi Electric service provider. Note, however, that this shall not apply if the customer was informed prior to purchase of the product that the product is not covered under warranty. Also note that we are not responsible for any on-site readjustment and/or trial run that may be required after a defective unit is replaced.

(Warranty Term)

The term of warranty for this product shall be twenty-four (24) months from the date of delivery of product to the end user, provided the product purchased from us in Japan is installed in Japan (but in no event longer than thirty (30) months, including the distribution time after shipment from Mitsubishi Electric or its distributor). Note that, for the case where the product purchased from us in or outside Japan is exported and installed in any country other than where it was purchased, please refer to “2. Service in overseas countries” as will be explained.

(Limitations)

(1) The machine tool builder is requested to conduct an initial failure diagnosis, as a general rule. It can also be carried out by us or our service provider upon the machine tool builder’s request and the actual cost will be charged.

(2) This warranty applies only when the conditions, method, environment, etc., of use are in compliance with the terms and conditions and instructions that are set forth in the instruction manual, user’s manual, and the caution label affixed to the product, etc.

(3) Even during the term of warranty, repair costs shall be charged to the customer in the following cases:

(a) a failure caused by improper storage or handling, carelessness or negligence, etc., or a failure caused by the customer’s hardware or software problem.

(b) a failure caused by any alteration, etc., to the product made by the customer without Mitsubishi Electric’s approval.

(c) a failure which may be regarded as unavoidable, if the customer’s equipment in which this product is incorporated is equipped with a safety device required by applicable laws or has any function or structure considered to be indispensable in the light of common sense in the industry.

(d) a failure which may be regarded as unavoidable if consumable parts designated in the instruction manual, etc. are duly maintained and replaced.

(e) any replacement of consumable parts (including a battery, relay and fuse).

(f) a failure caused by external factors such as inevitable accidents, including without limitation fire and abnormal fluctuation of voltage, and acts of God, including without limitation earthquake, lightning, and natural disasters.

(g) a failure which is unforeseeable under technologies available at the time of shipment of this product from our company.

(h) any other failures which we are not responsible for or which the customer acknowledges we are not responsible for.

2. Service in Overseas Countries

If the customer installs the product purchased from us in his/her machine or equipment, and export it to any country other than where he/she bought it, the customer may sign a paid warranty contract with our local FA center. This falls under the case where the product purchased from us in or outside Japan is exported and installed in any country other than where it was purchased. For details please contact the distributor from which the customer purchased the product.

3. Exclusion of Responsibility for Compensation against Loss of Opportunity, Secondary Loss, etc.

Regardless of the gratis warranty term, Mitsubishi shall not be liable for compensation to:

(1) Damages caused by any cause found not to be the responsibility of Mitsubishi.

(2) Loss in opportunity, lost profits incurred to the user by Failures of Mitsubishi products.

(3) Special damages and secondary damages whether foreseeable or not, compensation for accidents, and compensation for damages to products other than Mitsubishi products.

(4) Replacement by the user, maintenance of on-site equipment, start-up test run and other tasks.

4. Changes in Product Specifications

Specifications shown in our catalogs, manuals or technical documents are subject to change without notice.

5. Product Application

(1) For the use of this product, its applications should be those that may not result in a serious damage even if any failure or malfunction occurs in the product, and a backup or fail-safe function should operate on an external system to the product when any failure or malfunction occurs.

(2) Mitsubishi CNC is designed and manufactured solely for applications to machine tools to be used in the following cases:

(a) the application which are substantially influential on the public interest or which are expected to have significant influence on human lives or properties.

(b) any other applications other than those specified above, especially those which are substantially influential on the public interest or which are expected to have significant influence on human lives or properties.

Safety Warning

To ensure proper use of the products listed in this catalog, please be sure to read the instruction manual prior to use.

Mitsubishi Electric Corporation Nagoya Works is a factory certified for ISO 14001 (standards for environmental management systems) and ISO 9001 (standards for quality assurance management systems).

MITSUBISHI ELECTRIC CORPORATION
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