eco Changes for a greener tomorrow

MITSUBISHI ELECTRIC
Changes for the Better

FACTORY AUTOMATION

INVERTER
FR-E700

All-rounder with a compact body
(Addition of Ethernet communication function models)

700 series

- Top level of driving performance in compact body
- Easy operability
- Extensive option lineup
- Ensured maintenance
- Compact and space-saving
- Supporting various applications

GLOBAL IMPACT OF MITSUBISHI ELECTRIC

Through Mitsubishi Electric's vision, "Changes for the Better" are possible for a brighter future.

Changes for the Better

We bring together the best minds to create the best technologies. At Mitsubishi Electric, we understand that technology is the driving force of change in our lives. By bringing greater comfort to daily life, maximizing the efficiency of businesses and keeping things running across society, we integrate technology and innovation to bring changes for the better.

Mitsubishi Electric is involved in many areas including the following

Energy and Electric Systems
A wide range of power and electrical products from generators to large-scale displays.

Electronic Devices
A wide portfolio of cutting-edge semiconductor devices for systems and products.

Home Appliance
Dependable consumer products like air conditioners and home entertainment systems.

Information and Communication Systems
Commercial and consumer-centric equipment, products and systems.

Industrial Automation Systems
Maximizing productivity and efficiency with cutting-edge automation technology.

Evolution in all functions

① Top level of driving performance in compact body

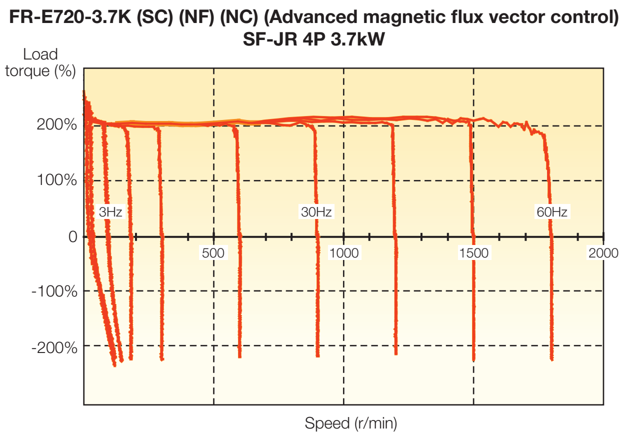
The inverter became more powerful.

(1) High torque 200%/0.5Hz is realized by Advanced magnetic flux vector control (3.7K or lower)

By the advancement of General-purpose magnetic flux vector control to Advanced magnetic flux vector control, top level of driving performance became possible. Since V/F control and General-purpose magnetic flux vector control operations are available, operation after replacement of the conventional model (FR-E500 series) is ensured.

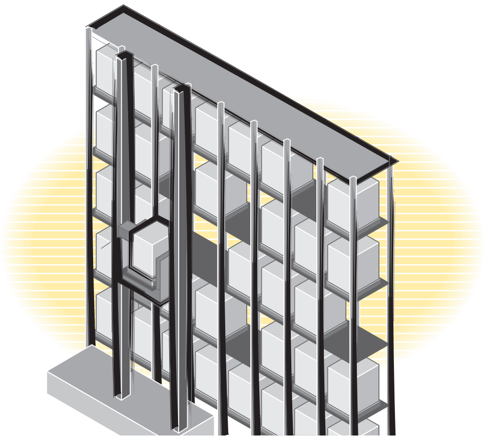
For the 5.5K to 15K, 150%/0.5Hz torque is realized.

Speed/torque characteristics example



Advanced auto tuning

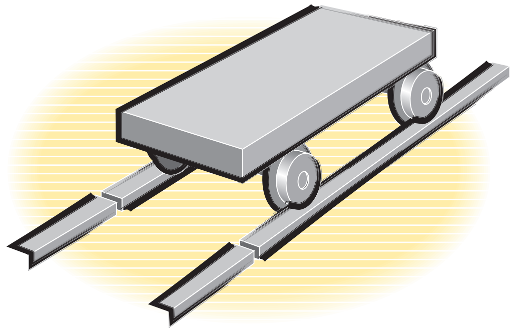
Many kinds of three phase induction motors can be optimally controlled with Mitsubishi Electric's original "non-rotation" auto tuning function. High precision tuning is enabled even when a test operation of a machine cannot be performed at parameter adjustment.



Advanced magnetic flux vector control is ideal for a lift in an automated-storage system which requires high torque at low speed.

(2) Short time overload capacity is increased (200% 3s)

Short time overload capacity is increased to 200% 3s (200% 0.5s for the conventional model). Overcurrent trip is less likely to occur.



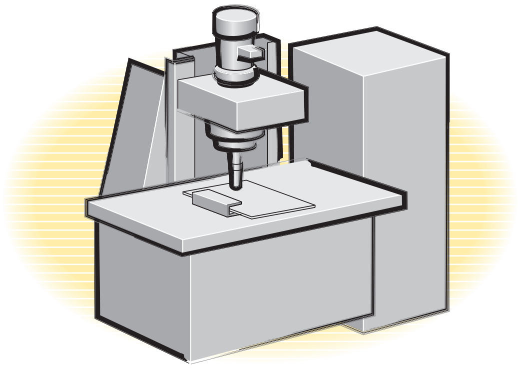
When a bogie runs over a bump, the impact can be beared by this function.

(4) Improved regeneration capability

A brake transistor is built-in to the 0.4K to 15K.
Connecting an optional brake resistor increases regeneration capability.

(3) Torque limit/current limit function

Improved torque limit/current limit function provides a machine protection, load limit, and stop-on-contact operation.



Using the torque limit function, machine breakage from overload can be avoided.
For example, edge chipping of a tool can be avoided.

Easy/powerful compact inverter

2 Excellent usability

Usability was thoroughly pursued.

(1) Improved setting dial

Easy setting with the Mitsubishi Electric setting dial.
- Displayed numbers can be jumped by turning the setting dial quickly, and numbers can be changed one by one by turning it slowly, enabling speedy parameter setting.
- The nonslip setting dial is easier to turn.

(2) Easy setting mode

According to the desired command sources for start frequency and speed, Pr.79 can be set in simple steps.

Press MODE and PU/EXT button simultaneously (0.5s).

Turn the setting dial to select operation method.

Operation method		Panel display	
Start command	Speed command	Monitor	LED
RUN button	Setting dial	79-1	PU 🟥 Blinking, EXT ☐
External terminal STF/STR	Analog voltage input	79-2	PU ☐, EXT 🟥 Blinking
External terminal STF/STR	Setting dial	79-3	PU 🟥 ON, EXT 🟥 Blinking
RUN button	Analog voltage input	79-4	PU 🟥 Blinking, EXT 🟥 ON

Press SET to set.

Setting complete

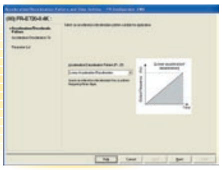
79-3 and 79-- blink

(3) With a provided USB connector, setting is easily done from a personal computer using FR Configurator

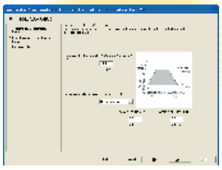
An USB connector (mini-B connector) is provided as standard. The inverter can be easily connected without a USB-RS-485 converter.
Wizard (interactive) function of FR Configurator (inverter setup software) provides setting support.
In addition, a high-speed graph function with USB enables high speed sampling display.

Expanded advanced operability with USB and FR Configurator

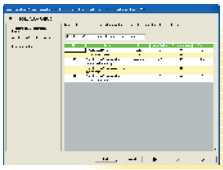
Setting wizard function (example: acceleration/deceleration time setting)



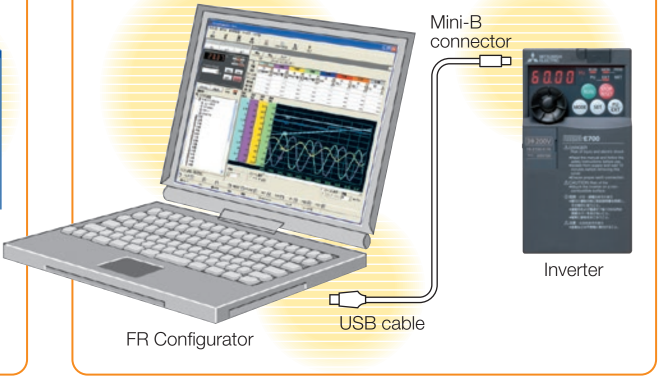
Acceleration/deceleration pattern setting



Acceleration/deceleration time setting



Parameter list display



(4) Enclosure surface operation panel FR-PA07 (option)

Optional enclosure surface operation panel (FR-PA07) can be connected.
In addition, an operation panel for conventional model (FR-E500 series) can be connected.

The operation panel of the inverter cannot be removed.
A parameter unit connection cable (FR-CB20☐) is separately required.

(5) Parameter unit FR-PU07/FR-PU07BB(-L) (option)

The FR-PU07/FR-PU07BB(-L), an optional parameter unit, can be connected as well.

A parameter unit connection cable (FR-CB20☐) is separately required. (Parameter unit connection cable FR-CB203 (3m) is enclosed with FR-PU07BB(-L).)
- Setting such as direct input method with a numeric keypad, operation status indication, and help function are useful. The display language can be selected from 8 languages.
- Parameter settings of maximum of three inverters can be stored.
- A battery pack type (FR-PU07BB(-L)) allows parameter setting and parameter copy without power-ON the inverter.

To use a parameter unit with battery pack outside Japan, order the FR-PU07BB-L (model indicated with "L" at the end).

●Features
●Connection example
●Standard Specifications
●Outline Dimension Drawings
●Terminal Connection Diagram
●Terminal Specification Explanation
●Operation panel
●Parameter unit
●FR Configurator
●Parameter List
●Explanations of Parameters
●Protective Functions
●Option and Peripheral Devices
●Precautions for Operation/Selection
●Precautions for Peripheral Device Selection
●Application to Motor
●Main Differences and Compatibilities with the FR-E500 Series
●Warranty
●Service
●International FA Center

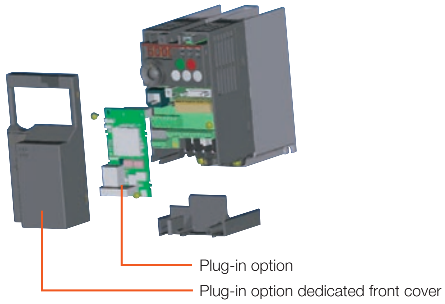
3 Enhanced expandability

Mitsubishi Electric inverters offer the expandability that answers to every need

(1) A variety of plug-in options are mountable

Plug-in options supporting digital input, analog output extension, and a variety of communications provide extended functions which is almost equivalent to the FR-A700 series. (One type of plug-in option can be mounted.)

[For the standard control circuit terminal model, order the FR-A7☐ E kit, which contains an option board FR-A7☐ and its dedicated front cover.]



The FR-A7☐ E kit can be used for the standard control circuit terminal model only.
For the safety stop function model, use an FR-A7☐ and a separate dedicated front cover.

Compatible Plug-in Options

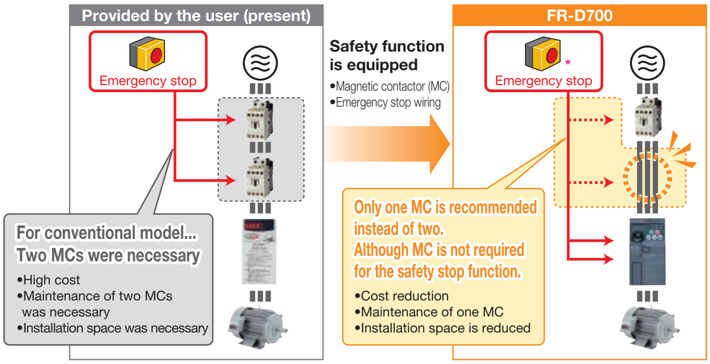
● FR-A7AX (E kit)	16-bit digital input	● FR-A7NC (E kit)	CC-Link
● FR-A7AY (E kit)	Digital output Extension analog output	● FR-A7ND (E kit)	DeviceNet
		● FR-A7NP (E kit)	PROFIBUS-DP
● FR-A7AR (E kit)	Relay output	● FR-A7NL (E kit)	LONWORKS
● FR-E7DS	24VDC input*1	● E7NECT_2P*2	EtherCAT

*1: This option is available for the safety stop function model only. The dedicated front cover is enclosed with the option.
*2: Manufactured by HMS Industrial Networks AB. (Only compatible with dedicated EtherCAT communication models)

(2) Safety stop function (FR-E700-SC/NF/NC)

- Spring clamp terminals are adopted as control circuit terminals. Spring clamp terminals are highly reliable and can be easily wired.
- The FR-E700-SC series is compliant to the EU Machinery Directive without the addition of previously required external devices. Operation of an external Emergency Stop device results in a highly reliable immediate shutoff of the D700's output to the motor. This safety stop function conforms to the following standards.

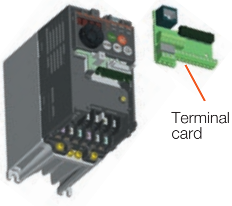
EN ISO 13849-1 Category 3 / PLd
EN62061 / IEC61508 SIL2



*: Approved safety relay unit

(3) Control terminals are selectable according to applications

For the customers who need more than the standard terminals, the control terminal option, RS-485 2 port terminal block, is available.
A terminal card is removable and can be easily replaced from a standard terminal card.



(4) Various kinds of networks are supported

- EIA-485 (RS-485), MODBUS®RTU (equipped as standard), CC-Link, PROFIBUS-DP, DeviceNet™, LONWORKS®, EtherCAT® (optional)
- Network-compatible inverters, the CC-Link communication model (FR-E700-NC) and the FL remote communication model (FR-E700-NF), are also available.
- A network compatible inverter, the Ethernet communication function model (FR-E700-NE) is now available. CC-Link IE Field Network Basic, MELSOFT / FA product connection and MODBUS/TCP supported.

(5) Environment-conscious filter options

- Filterpack FR-BFP2 (the package of the power factor improving DC reactor, common mode choke, and capacitive filter) is available for compliance with the Japanese harmonic suppression guidelines.
- A noise filter option for compliance with the EMC Directive (EN61800-3 2nd Environment Category C3) is also available.

4 Compact and space saving

Compact design expands flexibility of enclosure design.

(1) Compact body with high performance function

Installation size is the same as the conventional mode (FR-E500 series) in consideration of intercompatibility. (7.5K or lower)

(2) Side by side installation saves space

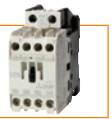
Space can be saved by side by side no clearance installation*.

*: Use the inverter at the surrounding air temperature of 40°C or less.

Mitsubishi Electric magnetic contactors

- Offer a selection of small frames
- Offer a line-up of safety contactors
- Support with low-level load (auxiliary contact)
- Support many international regulations as a standard model

☞Refer to page 85 for the selection.



5

Easy servicing for peace of mind

The 700 series is the pioneer of long life and high reliability.

(1) Long-life design

- The design life of the cooling fan has been extended to 10 years[*1]. The life of the fan can be further extended utilizing the it's ON/OFF control.
- The design life of the capacitors has been extended to 10 years[*1][*2] by adopting a capacitor that endures about 5000 hours at 105°C surrounding air temperature.

[*1] Surrounding air temperature : annual average 40℃ (free from corrosive gas, flammable gas, oil mist, dust and dirt) Since the design life is a calculated value, it is not a guaranteed value.

[*2] Output current : 80% of the inverter rated current

- Estimated service lifespan of the long-life parts

Components	Estimated lifespan of the FR-E700	Guideline of JEMA[*3]
Cooling fan	10 years	2 to 3 years
Main circuit smoothing capacitor	10 years	5 years
Printed board smoothing capacitor	10 years	5 years

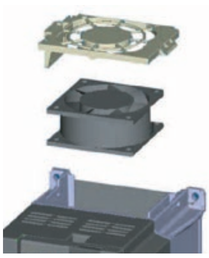
[*3] Excerpts from "Periodic check of the transistorized inverter" of JEMA (Japan Electrical Manufacturer's Association)

(2) Advanced life check function

- Degrees of deterioration of main circuit capacitor, control circuit capacitor, and inrush current limit circuit can be monitored.
- Trouble can be avoided with the self-diagnostic alarm[*4] that is output when the life span is near.

[*4] Any one of main circuit capacitor, control circuit capacitor, inrush current limit circuit or cooling fan reaches the output level, an alarm is output.
Capacity of the main circuit capacitor can be measured by setting parameter at a stop and turning the power from off to on. Measuring the capacity enables an alarm to be output.

(3) Easy replacement of cooling fans



A cooling fan is provided on top of the inverter for all capacities requiring a cooling fan[*].
Cooling fans can be easily replaced without disconnecting main circuit wires.

[*] Cooling fans are equipped with models of 1.5K and above. (single phase 200V class 0.75K and above)

(4) Combed shaped wiring cover

Wiring is easy as the wiring cover can be installed after wiring is complete.

(5) Removable control terminal block

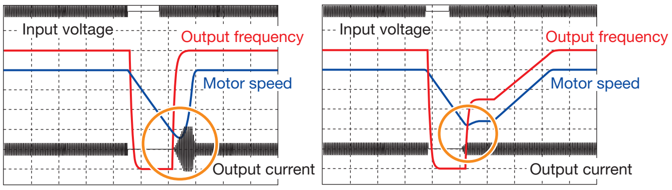
Wiring of the control circuit when replacing the same series inverter can be done by changing the terminal block.

6

Full of useful functions

Enhanced functions for all sorts of applications

- Automatic restart after instantaneous power failure function with frequency search



FR-E500 series　FR-E700 series

Detection of coasting speed (frequency search function) prevents the motor speed from decreasing at a restart, starting the motor smoothly with less output current.

- Power-failure deceleration stop function/operation continuation at instantaneous power failure function
The motor can be decelerated to a stop when a power failure or undervoltage occurs to prevent the motor from coasting.
This function is useful to stop a motor at power failure as a fail safe of machine tool, etc.
With the new operation continuation function at instantaneous power failure, the motor continues running without coasting even if an instantaneous power failure occurs during operation.

[*] The inverter may trip and the motor may coast depending on the load condition.

- Brake sequence mode ······························· is useful for mechanical brake control of a lift.
- Regeneration avoidance function ················· prevents regenerative overvoltage in a pressing machine.
- Main circuit power supply DC input ············· can be connected to DC power supply.
- Enhanced I/O terminal function ····················supports switchover of analog input (voltage / current).
- Password function ···································· is effective for parameter setting protection.

and so on

Energy saving for fans and pumps

- Load pattern selection (Pr. 14)
Optimal output characteristics (V/F characteristics) for application or load characteristics can be selected.
- Optimum excitation control (Pr. 60)
With Optimum excitation control to achieve the highest motor efficiency, further energy saving can be achieved.

☞ Refer to page 70

Lineup

FR-E720[ ]-0.1K[ ][ ]

Symbol	Voltage
1	100V class
2	200V class
4	400V class

Symbol	Number of Power Phases
None	Three-phase input
S	Single-phase input
W	Single-phase input (double voltage output)

Symbol	Inverter Capacity
0.1K to 15K	Represents the inverter capacity "kW".

Symbol	Control circuit terminal specification
None	Standard control circuit terminal model (screw type)
SC	Safety stop function model
NF	FL remote communication model
NC	CC-Link communication model

Symbol	Function
None	Standard type
-NE*2	Ethernet communication*1
-TM*3	Dedicated EtherCAT communication model

Inverter type	Safety stop function	Voltage class	Inverter model	0.1K	0.2K	0.4K	0.75K	1.5K	2.2K	3.7K	5.5K	7.5K	11K	15K
Standard control circuit terminal model	NO	Three-phase 200V class	FR-E720-[ ][ ]	●	●	●	●	●	●	●	●	●	●	●
		Three-phase 400V class	FR-E740-[ ][ ]	—	—	●	●	●	●	●	●	●	●	●
		Single-phase 200V class	FR-E720S-[ ][ ]*4	●	●	●	●	●	●	—	—	—	—	—
		Single-phase 100V class	FR-E710W-[ ][ ]*4	●	●	●	●	—	—	—	—	—	—	—
Safety stop function model	YES	Three-phase 200V class	FR-E720-[ ][ ]SC	●	●	●	●	●	●	●	●	●	●	●
		Three-phase 400V class	FR-E740-[ ][ ]SC	—	—	●	●	●	●	●	●	●	●	●
		Single-phase 200V class	FR-E720S-[ ][ ]SC*4	●	●	●	●	●	●	—	—	—	—	—
Communication model	NO	Three-phase 200V class	FR-E720-[ ][ ]-NE*2	●	●	●	●	●	●	●	●	●	●	●
		Three-phase 400V class	FR-E740-[ ][ ]-NE*2	—	—	●	●	●	●	●	●	●	●	●
	YES	Three-phase 200V class	FR-E720-[ ][ ]NF	●	●	●	●	●	●	●	●	●	●	●
			FR-E720-[ ][ ]NC											
			FR-E720-[ ][ ]SC-TM*3											
		Three-phase 400V class	FR-E740-[ ][ ]NF	—	—	●	●	●	●	●	●	●	●	●
			FR-E740-[ ][ ]NC											
			FR-E740-[ ][ ]SC-TM*3											

●:Available models —:Not available

*1: CC-Link IE Field Network Basic supported (refer to page 6).

*2: Standard control circuit terminal model only.

*3: Safety stop function model only. By installing the EtherCAT communication option (E7NECT_2P manufactured by HMS Industrial Networks AB), EtherCAT communication is possible.

*4: The output of the single-phase 200V and single-phase 100V input models is three-phase 200V.

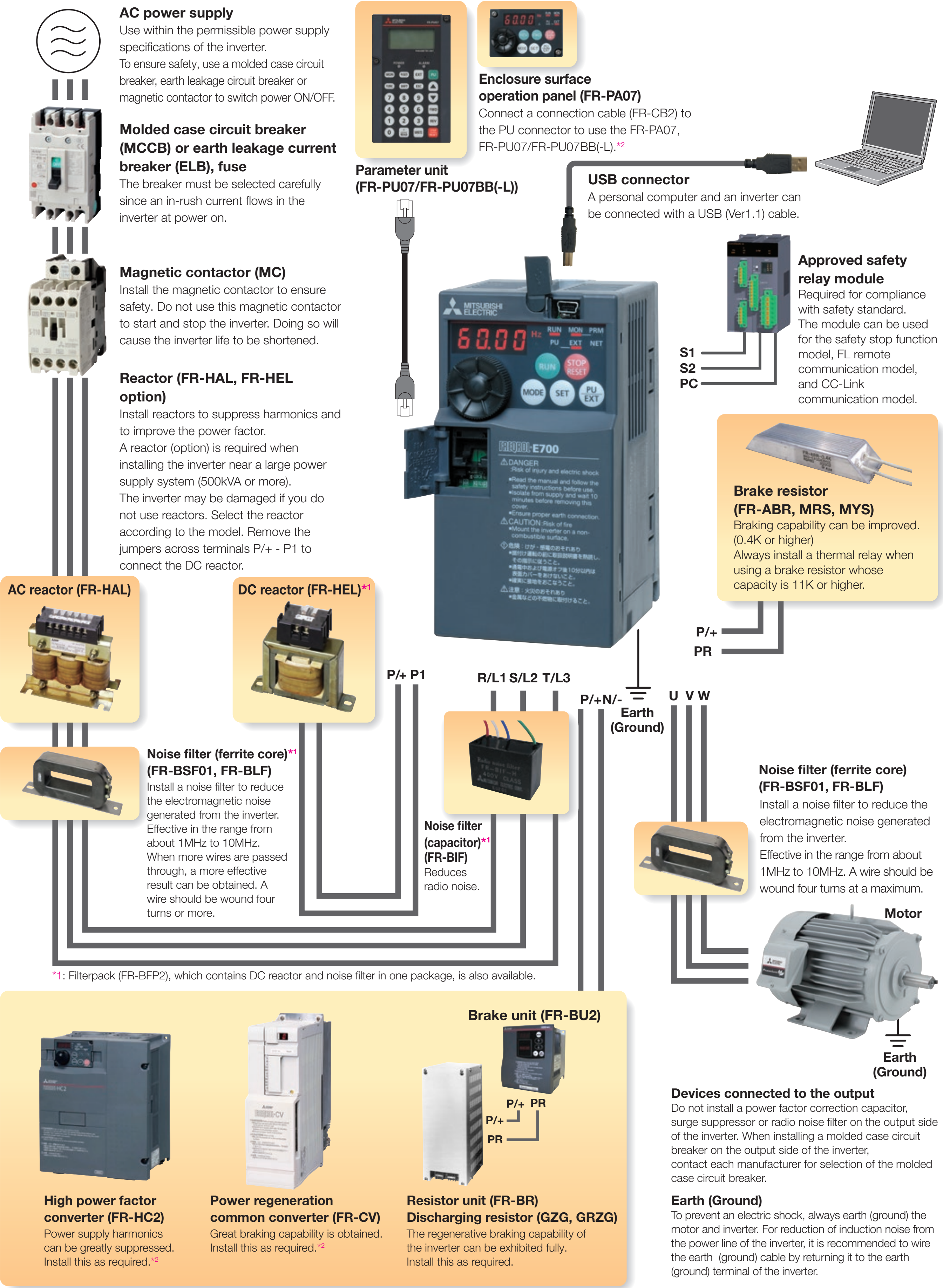
c UL us LISTED

Complies with UL, cUL, and EC Directives (CE marking), and the Radio Waves Act (South Korea) (KC marking). It is also certified as compliant with the Eurasian Conformity (EAC).

The single-phase 100V power input model is not compliant with the EMC Directive.

The inverters are compliant with the EU RoHS Directive (Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment), friendly to people and to the environment.

Connectivity



AC power supply
Use within the permissible power supply specifications of the inverter.
To ensure safety, use a molded case circuit breaker, earth leakage circuit breaker or magnetic contactor to switch power ON/OFF.

Molded case circuit breaker (MCCB) or earth leakage current breaker (ELB), fuse
The breaker must be selected carefully since an in-rush current flows in the inverter at power on.

Magnetic contactor (MC)
Install the magnetic contactor to ensure safety. Do not use this magnetic contactor to start and stop the inverter. Doing so will cause the inverter life to be shortened.

Reactor (FR-HAL, FR-HEL option)
Install reactors to suppress harmonics and to improve the power factor.
A reactor (option) is required when installing the inverter near a large power supply system (500kVA or more).
The inverter may be damaged if you do not use reactors. Select the reactor according to the model. Remove the jumpers across terminals P/+ - P1 to connect the DC reactor.

AC reactor (FR-HAL)

DC reactor (FR-HEL)*1

Noise filter (ferrite core)*1 **(FR-BSF01, FR-BLF)**
Install a noise filter to reduce the electromagnetic noise generated from the inverter.
Effective in the range from about 1MHz to 10MHz.
When more wires are passed through, a more effective result can be obtained. A wire should be wound four turns or more.

Parameter unit (FR-PU07/FR-PU07BB(-L))

Enclosure surface operation panel (FR-PA07)
Connect a connection cable (FR-CB2) to the PU connector to use the FR-PA07, FR-PU07/FR-PU07BB(-L).*2

USB connector
A personal computer and an inverter can be connected with a USB (Ver1.1) cable.

Approved safety relay module
Required for compliance with safety standard.
The module can be used for the safety stop function model, FL remote communication model, and CC-Link communication model.

Brake resistor (FR-ABR, MRS, MYS)
Braking capability can be improved. (0.4K or higher)
Always install a thermal relay when using a brake resistor whose capacity is 11K or higher.

Noise filter (capacitor)*1 **(FR-BIF)**
Reduces radio noise.

Noise filter (ferrite core) (FR-BSF01, FR-BLF)
Install a noise filter to reduce the electromagnetic noise generated from the inverter.
Effective in the range from about 1MHz to 10MHz. A wire should be wound four turns at a maximum.

Motor

*1: Filterpack (FR-BFP2), which contains DC reactor and noise filter in one package, is also available.

Brake unit (FR-BU2)

High power factor converter (FR-HC2)
Power supply harmonics can be greatly suppressed.
Install this as required.*2

Power regeneration common converter (FR-CV)
Great braking capability is obtained.
Install this as required.*2

Resistor unit (FR-BR)
Discharging resistor (GZG, GRZG)
The regenerative braking capability of the inverter can be exhibited fully.
Install this as required.

Devices connected to the output
Do not install a power factor correction capacitor, surge suppressor or radio noise filter on the output side of the inverter. When installing a molded case circuit breaker on the output side of the inverter, contact each manufacturer for selection of the molded case circuit breaker.

Earth (Ground)
To prevent an electric shock, always earth (ground) the motor and inverter. For reduction of induction noise from the power line of the inverter, it is recommended to wire the earth (ground) cable by returning it to the earth (ground) terminal of the inverter.

*2: The converter is used for the standard control circuit terminal model or the safety stop function model.

Mitsubishi Electric's global FA network delivers reliable technologies and security around the world.

■ Production base ● Development center ● Global FA Center ▲ Mechatronics showroom ● Mitsubishi Electric sales office

Russia FA Center
MITSUBISHI ELECTRIC EUROPE B.V.
Russian Branch St.Petersburg office

Germany FA Center
MITSUBISHI ELECTRIC EUROPE B.V.
Germany Branch

UK FA Center
MITSUBISHI ELECTRIC EUROPE B.V.
UK Branch

Czech Republic FA Center
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EUROPE B.V.Czech office

Italy FA Center
Mitsubishi Electric
Europe B.V. Italian Branch

Europe FA Center
MITSUBISHI ELECTRIC
EUROPE B.V.
Polish Branch

Turkey FA Center
Mitsubishi Electric
Turkey A.Ş. Ümraniye

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Gurgaon Head Office

India Ahmedabad FA Center
MITSUBISHI ELECTRIC INDIA PVT.LTD.
Ahmedabad Branch

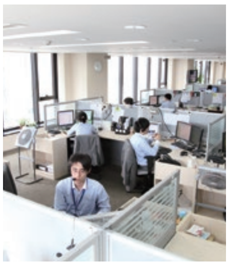
India Pune FA Center
MITSUBISHI ELECTRIC INDIA PVT.LTD.
Pune Branch

Indonesia FA Center
PT.MITSUBISHI
ELECTRIC INDONESIA

India Bangalore FA Center
MITSUBISHI ELECTRIC INDIA PVT.LTD.
Bangalore Branch

India Chennai FA Center
MITSUBISHI ELECTRIC INDIA PVT.LTD.
Chennai Branch

Available services



Technical consultation (engineering)
Our Japanese and/or local staff offer technical advice, and can also propose the best products and systems for a customer's specific application needs.

Showrooms
The latest automation technologies, including programmable controllers, HMIs, inverters, servo systems, and industrial automation machinery such as electrical-discharge machines, laser processing machines, CNCs, and industrial robots can be seen at Mitsubishi Electric showrooms.

Training
From basic operations to applied programming, our training schools offer regular courses that use actual machines. We also offer customized training programs and onsite training sessions.

Technical support
Our FA centers and service shops work together to provide repairs, onsite engineering support, and spare parts.

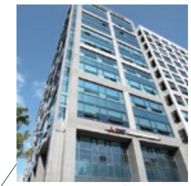
Repairs
Handle repairs of our FA products.

Service bases are established around the world to provide the same services as in Japan globally. Overseas bases are opening one after another to support our customers' business expansion.

Area	Our overseas	FA centers
EMEA	26	7
China	17	4
Asia	31	13
Americas	15	6
Others	1	0
Total	90	30

·As of July 2017


Thailand FA Center
MITSUBISHI ELECTRIC FACTORY AUTOMATION (THAILAND) CO.,LTD


Korea FA Center
MITSUBISHI ELECTRIC AUTOMATION KOREA CO.,LTD.

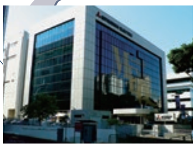

MITSUBISHI ELECTRIC CORPORATION
Factory Automation Systems Group

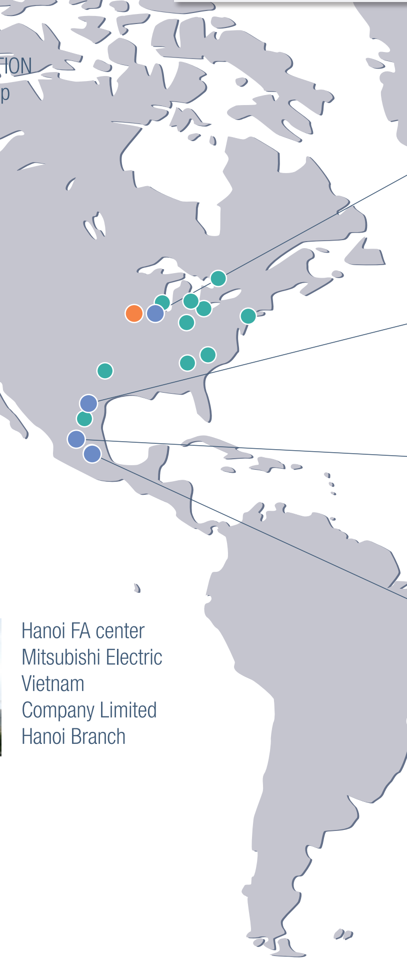

Taichung FA Center
MITSUBISHI ELECTRIC TAIWAN CO.,LTD


Taipei FA Center
SETSUYO ENTERPRISE CO.,LTD

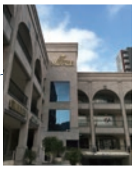

Ho Chi Minh FA Center
MITSUBISHI ELECTRIC VIETNAM COMPANY LIMITED


Hanoi FA center
Mitsubishi Electric Vietnam Company Limited Hanoi Branch


ASEAN FA Center
MITSUBISHI ELECTRIC ASIA PTE.LTD.

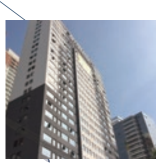



North America FA Center
MITSUBISHI ELECTRIC AUTOMATION,INC.

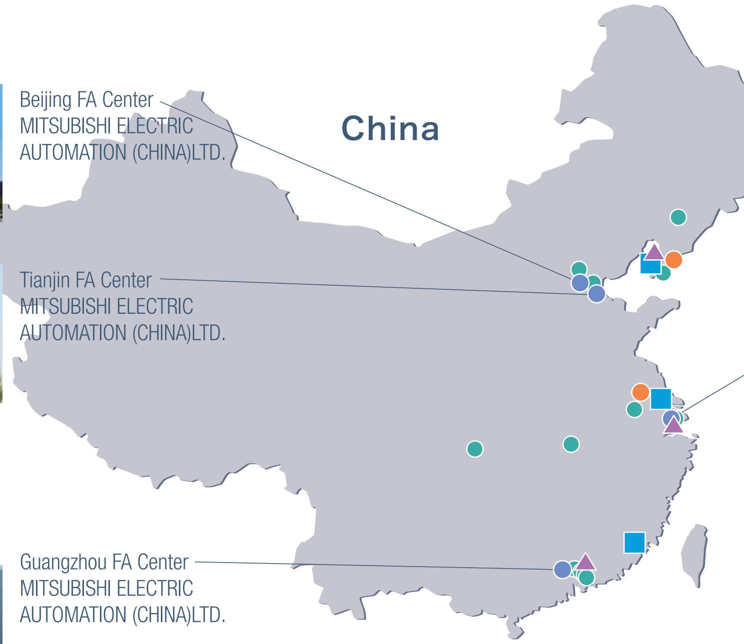

Mexico Monterrey FA Center
Monterrey Office, Mitsubishi Electric Automation, Inc.


Mexico FA Center
Querétaro Office, Mitsubishi Electric Automation, Inc.


Mexico City FA Center
Mexico FA Center
Mexico Branch, Mitsubishi Electric Automation, Inc.


Brazil FA Center
Mitsubishi Electric do Brasil Comércio e Serviços Ltda.


Brazil Votorantim FA Center
MELCO CNC do Brasil Comércio e Serviços S.A.




Beijing FA Center
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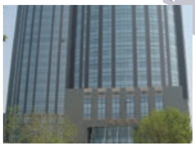
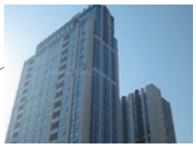

Tianjin FA Center
MITSUBISHI ELECTRIC AUTOMATION (CHINA)LTD.


Shanghai FA Center
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Guangzhou FA Center
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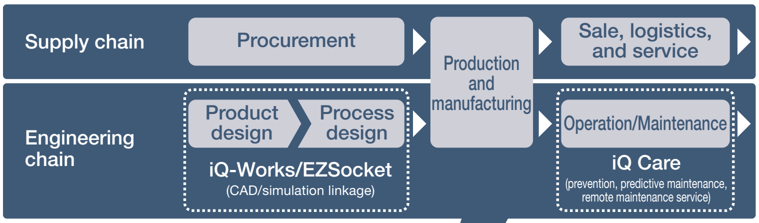
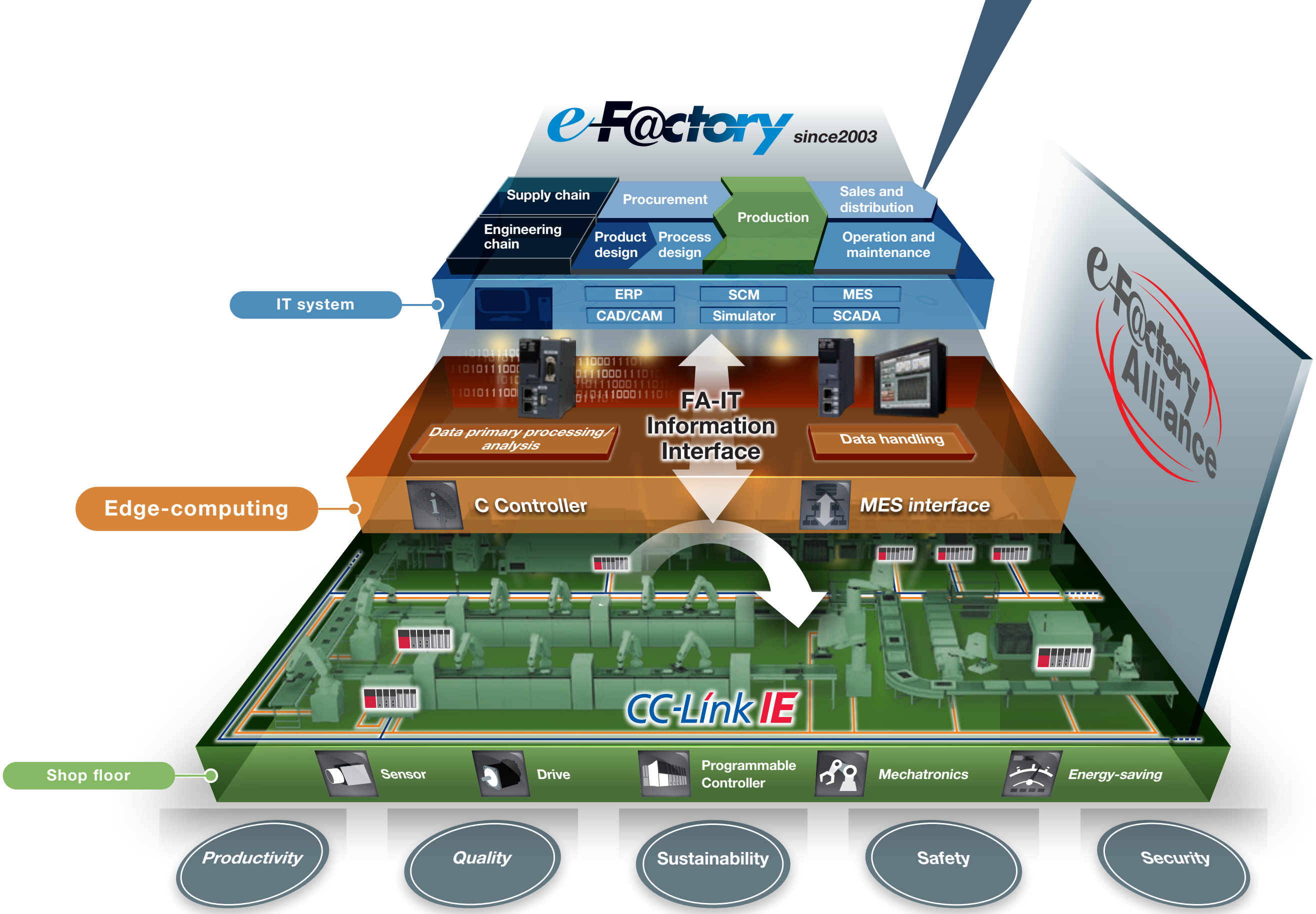
This solution solves customers' issues and concerns by enabling visualization and analysis that lead to improvements and increase availability at production sites.

Utilizing our FA and IT technologies and collaborating with e-F@ctory Alliance partners, we reduce the total cost across the entire supply chain and engineeringchain, and support the improvement initiatives and one-step-ahead manufacturing of our customers.

FA integrated solutions reduce total cost





Overall production information is captured in addition to energy information, enabling the realization of efficient production and energy use (energy savings).

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

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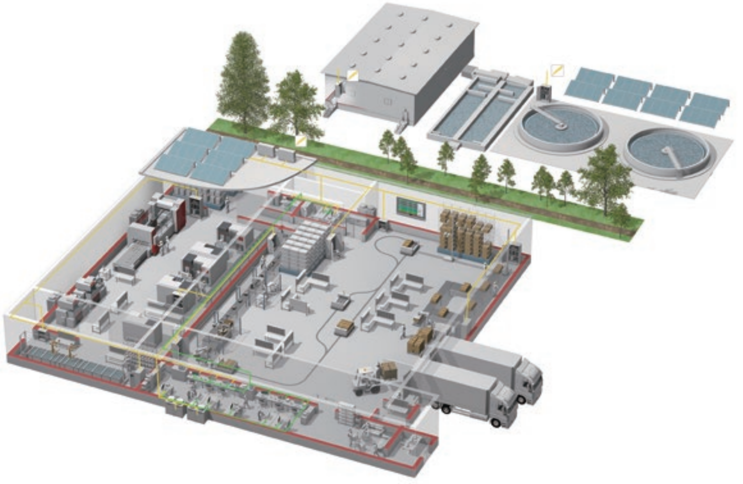

Mitsubishi Electric offers a wide range of automation equipment from PLCs and HMIs to CNC and EDM machines.

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Since its beginnings in 1870, some 45 companies use the Mitsubishi name, covering a spectrum of finance, commerce and industry.

The Mitsubishi brand name is recognized around the world as a symbol of premium quality.

Mitsubishi Electric Corporation is active in space development, transportation, semi-conductors, energy systems, communications and information processing, audio visual equipment and home electronics, building and energy management and automation systems, and has 237 factories and laboratories worldwide in over 121 countries.

This is why you can rely on Mitsubishi Electric automation solution - because we know first hand about the need for reliable, efficient, easy-to-use automation and control in our own factories.

As one of the world's leading companies with a global turnover of over 4 trillion Yen (over $40 billion), employing over 100,000 people, Mitsubishi Electric has the resource and the commitment to deliver the ultimate in service and support as well as the best products.

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Medium voltage: VCB, VCC

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Compact and Modular Controllers

Inverters, Servos and Motors

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Robots: SCARA, Articulated arm

Processing machines: EDM, Lasers, IDS

Transformers, Air conditioning, Photovoltaic systems

* Not all products are available in all countries.

Mitsubishi Electric Corporation Nagoya Works
is a factory certified for ISO 14001
(standards for environmental management
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