

Company Overview

Hitachi Industrial Components and Equipment





Ramaland Building

Hitachi Asia (Thailand) Co., Ltd.

No.952, 12th Floor, Ramaland Bldg., Rama IV Road, Suriyawongse, Bangrak, Bangkok 10500, Thailand

Tel : (66)2 632 9292 Fax : (66)2 632 9299

Incorporated in 1992, Hitachi Asia (Thailand) Co., Ltd. (HAS-TH) provides expert solutions in meeting the needs of customers in Thailand.

HAS-TH markets a wide range of products and services for various industry sectors ranging from Power and Infrastructure Systems, Information and Telecommunication Systems, Electronic devices to International Procurement services.

Some of HAS-TH's product range includes electrical power plants, industrial process machinery and advanced software technology. In addition, HAS-TH provides support to over employees 3,100+ / 18 Hitachi group of company in Thailand.

HAS-TH is also committed to the community it serves by contributing to various social causes.

Scope of Business



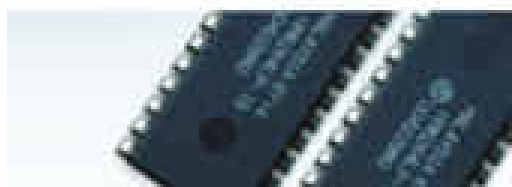
Power / Industrial / Water

Power Generation & Transmission Plant
Industrial Systems & Equipment
Construction Machinery & Equipment
Water



Urban Infrastructure

Rail Transportation Systems
Air Conditioning System
Refrigeration Systems



Electronic Devices / Materials

High Voltage Diodes
High Voltage IC
Insulated Gate Bipolar Transistors (IGBT)



Information Technology

IT Solutions
IT Storage
Business Consulting & Service

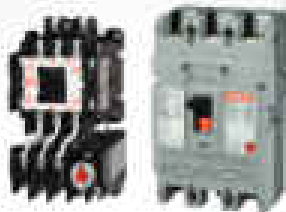
Main Product Line-up in Thailand

Components

Inverters



Switches



Blowers



Motors



Equipment

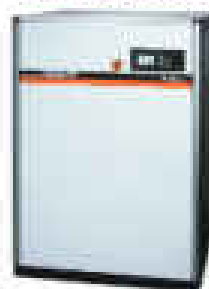
Hoists



Ink Jet Printers

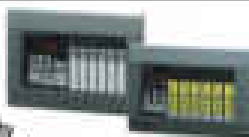


Compressors



System Solutions

Low voltage insulation monitoring system



Power distribution, utility monitoring system (H-NET)



Multi unit controller



Lubricated inverter-mounted screw compressors



Nitrogen gas generators for pack



Oil-free reciprocating compressors



Rope and chain hoists



Power conditioner



Photovoltaic power generation systems



Hydraulic energy collection system



High-efficient motors



Inverters



Inverter driven automatic water supply units



Precautions for Safety

Before use, be sure to read through the instruction manual to confirm proper use of each product. Otherwise, it can lead to damage to the product and/or injury to personnel.

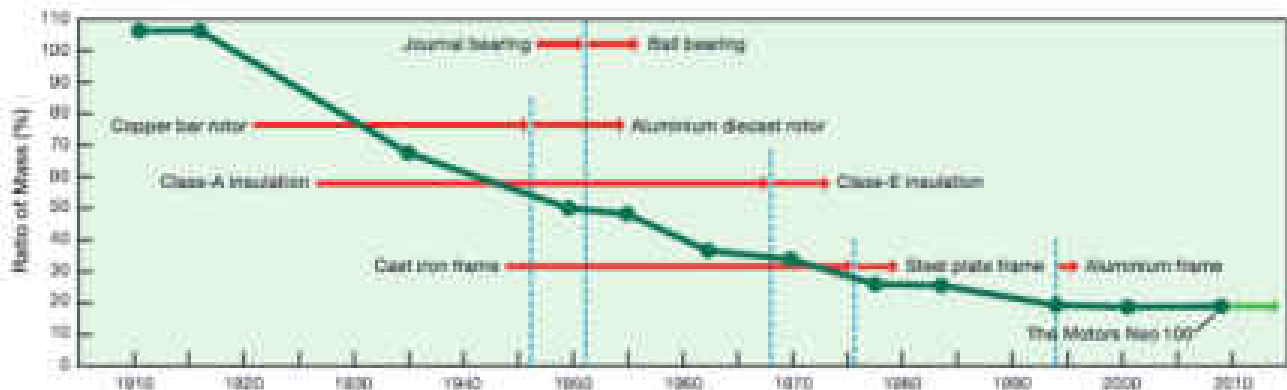
Electric Induction Motors

Historical transition of Hitachi Motor Development.

Motor Size: 5HP (3.7kW 4P)



Ratio of Weight



Three-Phase Motors



IP44 Series

Foot / Flange Mount
1/2 - 175HP (0.1 - 132kW)
2 / 4 / 6 / 8 pole



IP55 Series

Foot / Flange Mount
1/2 - 175HP (0.1 - 132kW)
2 / 4 / 6 / 8 pole

High Efficiency Motors



IE3 Series

Foot / Flange Mount
1HP - 75HP (0.75kW - 55kW)
2 / 4 / 6 pole

Single-Phase Motors



Capacitor Start Capacitor Run

1.5 - 10HP (1.1 - 7.5kW)
4 pole

Production Plant

Prachinburi, Thailand



Narashino, Japan



Main Features

High Reliability



Highest Japan share brand
110years of motor supply



Trustness of Japan Quality
Stable supply of Thai Production

High Quality



World-Class IE3 Efficiency
Comply to oversea regulation



Support factory energy savings
Strong service & flexible proposal

High Value



General motor
apply 3 year warranty



Special design
work for Machine
manufacturer

Inverters *driving performance with energy-saving*



SJ-P1 Series

High performance inverter having innovative ease-of-use and excellent driving performance.
Designed with Color LCD operator & Slot-in type option
Data trace & Data copy function, Multi language selection



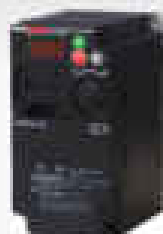
LH1 Series

Multi-purpose inverter designed for fan, pumps, and conveyors



WJ200 Series

Ideal compact inverter having high performance & well balanced design.
Flexible operation for easy customization!
Having powerful sequential programming as internal function.

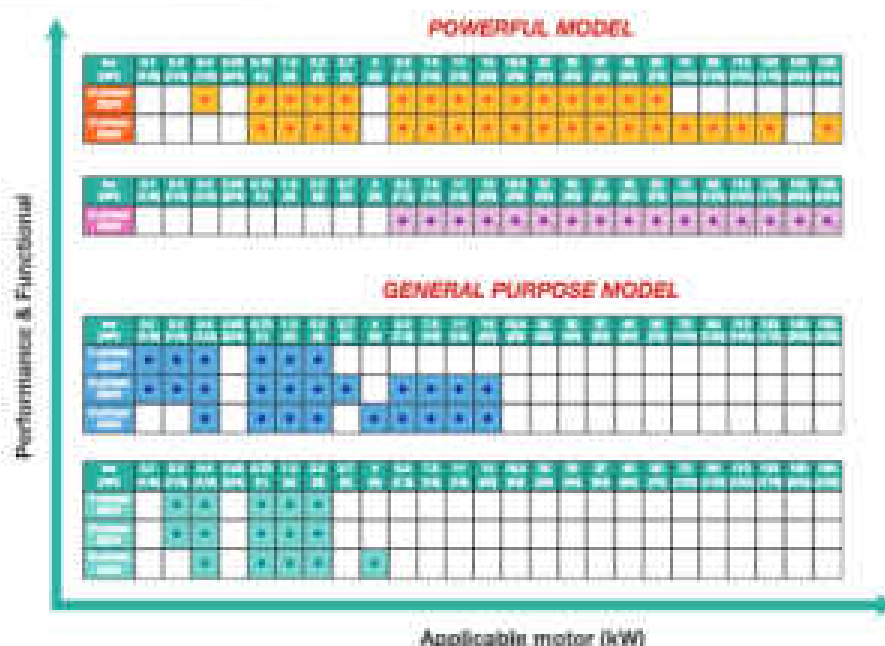


Move forward to
Greener & Smarter Society

WJ-C1 Series

New compact type inverter having user friendly functions. Powerful starting torque, Precise speed control, Simulation function, Leftlife diagnosis are available for smooth operation. Sequential programming function and other features also available too.

Inverters Product Line Up



Note 1 : Product will be released on DVD please contact Hitachi Asia (Thailand) Co., Ltd.
Note 2 : Customized models available please contact Hitachi Asia (Thailand) Co., Ltd.

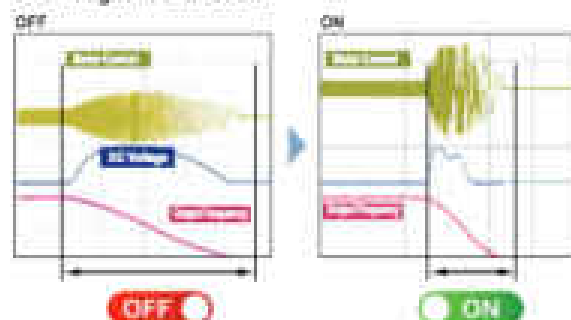
Main Feature (Common description with Motor)

WJ-C1 series / SJ-P1 series

Reduce trips on acceleration and deceleration

Automatic speed adjustment manages ideal acceleration/deceleration speed to reduce the trip possibility from over current, over voltage, and impact load.

Over magnetize function



Over-current suppress function



**Turn off this function for lifting equipment.

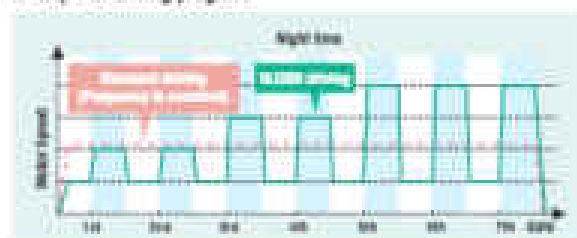
Easy sequence (EasQ) program function

Sequence operation is realized by downloading to an inverter a program created with Hitachi's EasQ software. User program can be compiled on EasQ software on a PC. External components can be simplified or eliminated, resulting in cost-savings.

• EasQ Example: Energy cost saving by speed reduction.

- Daytime: Motor speed is automatically reduced to reduce demand during peak hours.
- Nighttime: Motor speed is increased to take advantage of off-peak power rates.

Example of driving program



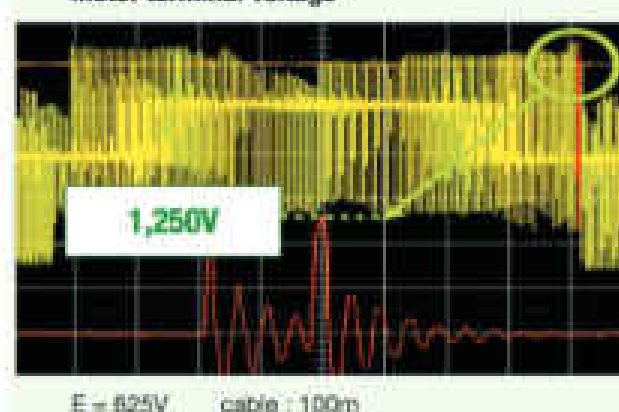
Micro surge voltage suppress function

Hitachi original PWM control method limits motor terminal voltage to less than twice inverter DC bus voltage.

Lower than Hitachi motor max. insulation voltage (1,250V)

(During regeneration, the motor terminal voltage may exceed the motor maximum insulation voltage (1,250V))

Motor terminal voltage

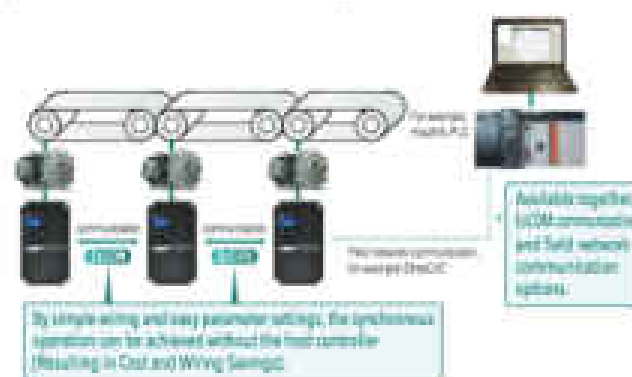


EzCOM Function : Inverter-to-Inverter communication without a PLC or PC.

It is easy to build a small coarsely synchronized system using multiple inverters.

Since SJ-P1 can use both of EzCOM and external communication option cards, you can create a system that does not require complicated control components.

(The maximum number of EzCOM is 8)



"High quality" to comply international standards

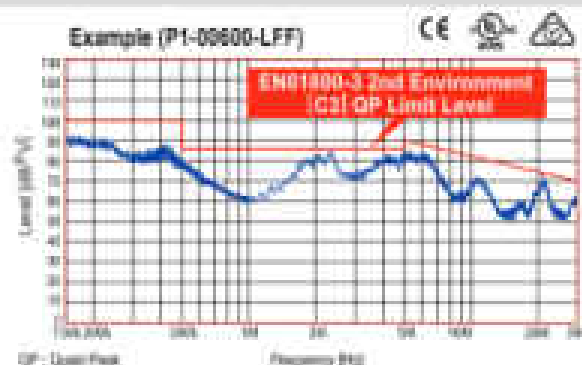
Corresponds to the EC directive, UL and cUL in order to guarantee the quality and safety. Equipped with a quality that is recognized in Europe.

EC directive	LVD	: IEC61800-5-1
	EMC directive	: IEC61800-3
UL	Power Conversion Equipment / UL61800-5-1	

Built-in noise filters corresponding to the European EMC Directive, IEC61800-3 2nd Environment Category C3

Since complies with the RoHS, Environmental considerations also sufficient.

Example (P1-00600-LFF)



IoT & Cloud Solutions

HX Series

- Industrial Controllers for IoT application
- Full compliance with IEC61131-3 International Standard



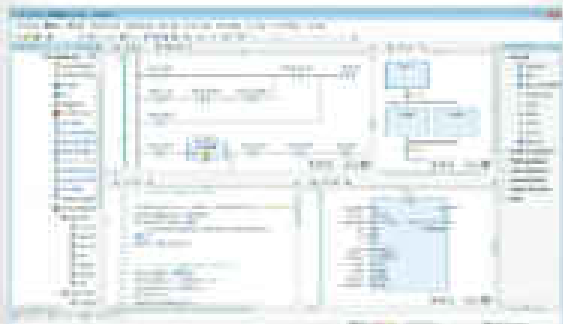
Suitable for IoT Gateway

- All-in-one type (I/O Fixed)
- Stand-alone type (CPU only for data collection and edge control)



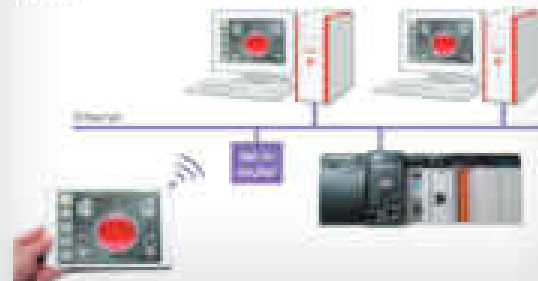
IEC standard programming

- CoDeSys powered integrated development environment
- Supporting LD (Ladder Logic), ST (Structured Text), FBD (Function Block Diagram), and other programming languages following to IEC61131-3 standard



Web-Visualization

- Visual HMI and/or SCADA system which enable to show/control from web browsers.
- Connecting from Wi-Fi router, both wire & wireless connection is possible to achieve
- Multi connection and user login available for flexible operation at site.



Data logging System

- Enable to save records in USB memory and/or SD cards
- Stored data can be shared between IT system, PC, and data servers



Flexible Network Availability

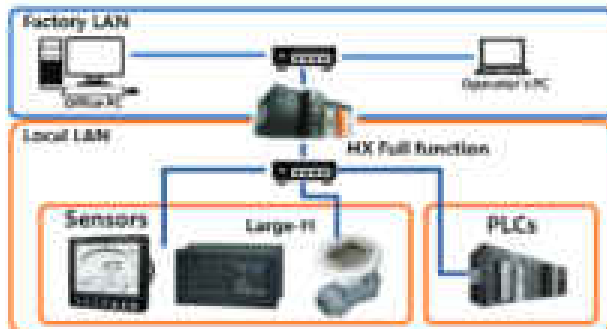
- Three Ethernet ports as full function to connect with multi equipment and system.
- Support OPC-UA server function as standard for smooth data sharing with IT side.
- Enable to share files (both server & client) via FTP
- Available to add additional functions installing C/C++ application files



Use Cases

Factory Data Collection

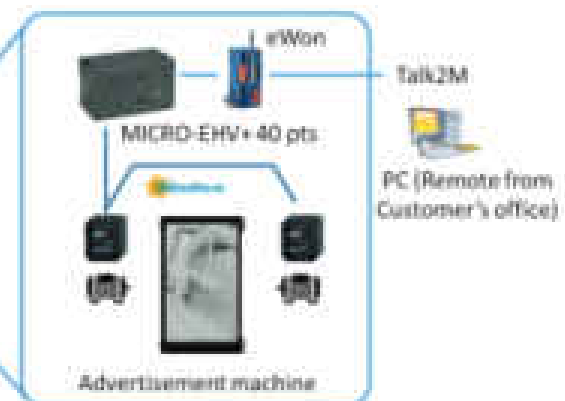
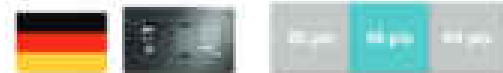
- Collect data from various units and convert for your use
- Create remote system easily for central monitoring
- For factory energy management, OEE calculation etc.



Example of remote monitoring

Remote maintenance

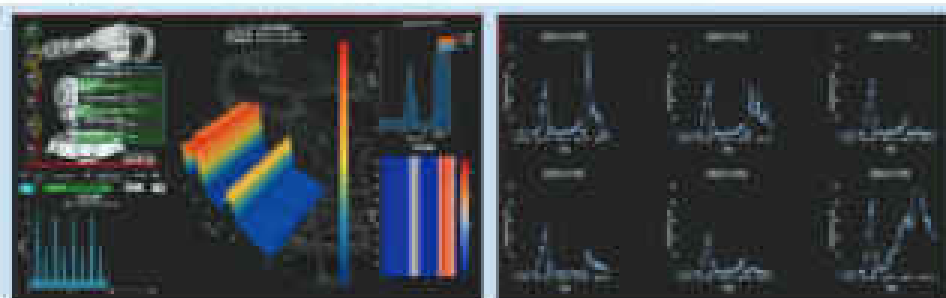
- Enable to create remote maintenance solutions for stand-alone machine
- Also, can be used to gather information of faraway locations / facilities
- Work as system server (HTTP, FTP, etc.) to share via on LAN, LTE, etc.



Predictive Analysis



Continuously collect data from robot arm. Analyze data for prediction of robot error. (Precise level: 99.6% for servo and amp errors)



IoT & Cloud Solutions

CPTrans

- Industrial IoT router which designed for factory machines to be connected to Internet.
- Cloud data upload/download, Safe network peer-to-peer connections.



Designed for Industrial IoT use



Tough hardware design



Wire & Wireless connect



Customization availability



GPS Data collectable

Comply to multi country regulations



Flexible network connection availability

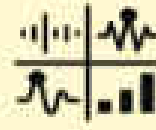
Client Network / Cloud Services



Data storage



Operation monitoring



Data utilization



AI



Location AI tracking

Local Devices

Data



Data



Data



Data



Data



Data



Data



Use Cases

Cloud Data Monitoring



<One stop service for Cloud>
Support to send data on cloud services without any special programming required. (mqttio & restio APP)

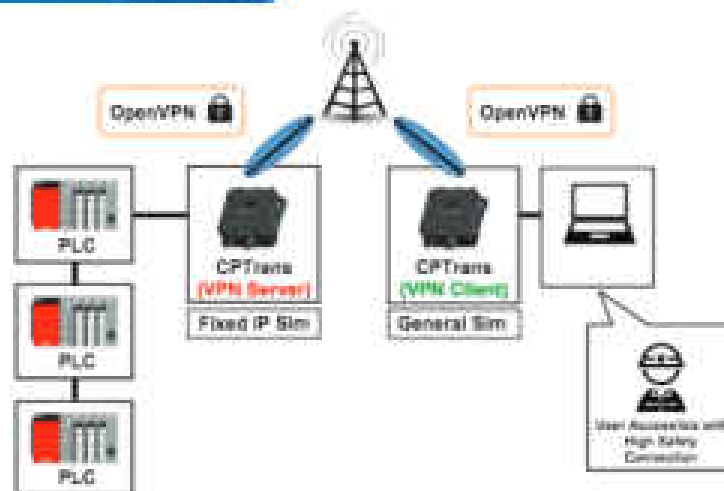


<Easy settings for alerts!>
Mini PLC function included and can create your own judgements in simple steps. (lopol & datamanager APP)

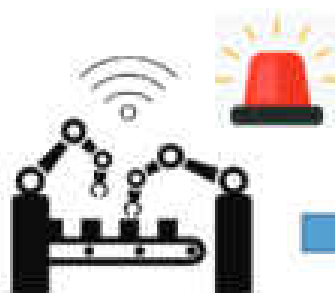


<Various equipment connectable!>
Support frequently used industrial protocol (Modbus) and can connect with various equipment and sensors.

Safe Remote Maintenance



Notification Alert

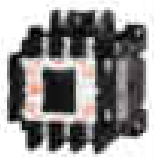
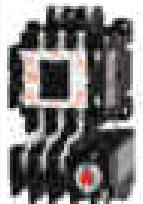


Alarm Notification



Electromagnetic Contactors & Switches

Types and model arrangements

	Electromagnetic Contactors		Electromagnetic Contactors			
			Without Enclosure		With Enclosure	
Non-reversible Type		HS □ 8 - 50 frame		HS □ -T 8 - 50 frame		SHS □ -T SHS □ -TB (ON-OFF switch) 8 - 50 frame
		H □ 65C - 600C frame		H □ -T 65C - 600C frame		SH □ -T SH □ -TB (ON-OFF switch) 65C - 600C frame
Reversible Type 20-800C frame (provided mechanical interlock)		HS □ -R 10 - 50 frame		HS □ -RT 10 - 50 frame		SHS □ -RT SHS □ -RTB (ON-OFF switch) 10 - 50 frame
		H □ -R 65C - 600C frame		H □ -RT 65C - 600C frame		SH □ -RT SH □ -RTB (ON-OFF switch) 65C - 600C frame

Contactor Relays



XS4
XS4-G
 (4 contacts)

Thermal Overload Relays



TR □ - □
 12-600A frame

with Thermal Overload Relay
HS, H □ -T & HS, H □ -TK

with 2E Thermal Overload Relay

12-600A [9 Types]

DC Operated magnetic contactors



HS □ -G
 10 - 50 frame
H □ -G
 65C - 600C frame

Latched magnetic contactors



HS □ -L
 10 - 50 frame
H □ -L
 65C - 600C frame

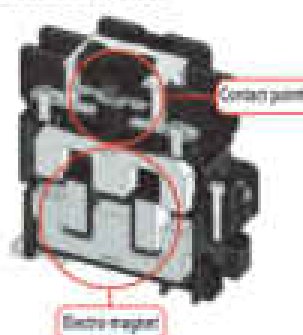
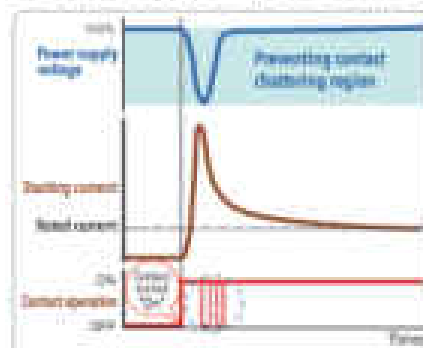
Heavy load magnetic contactors



H □ -H
 10 - 20 frame
K □ N-E □
 30N - 200N frame

Electromagnet Resistant to Voltage Fluctuation

The contactor maintains stable conducting performance even when the power supply voltage drops when started under load.



New shock-absorbing structure
Immediately before collision, the movable core and the fixed core move in the same direction to absorb the shock.

Improved Environmental Performance

Reduced power consumption

The HS series reduces power consumption by operating coil with 20A to 50A frames.

Amount of material used reduced, recyclable material increased

The HS series improves environmental performance through miniaturization to reduce the product weight and with indications of material names for easier recycling

Frame	20A	25A	30A	50A
Power consumption	88%	88%	85%	85%

(compared with conventional Hbach E&S products)

Example of indication for resin used



Fuse Free Breaker Line up

Molded Case Circuit Breaker (MCCB)

Standard Breaker	Economical Breaker	High Interrupting Capacity Breaker
		
F series	S series	L series
50A-4000A Frame	30A - 800A Frame	100A-800A Frame

Earth Leakage Circuit Breaker (ELCB)

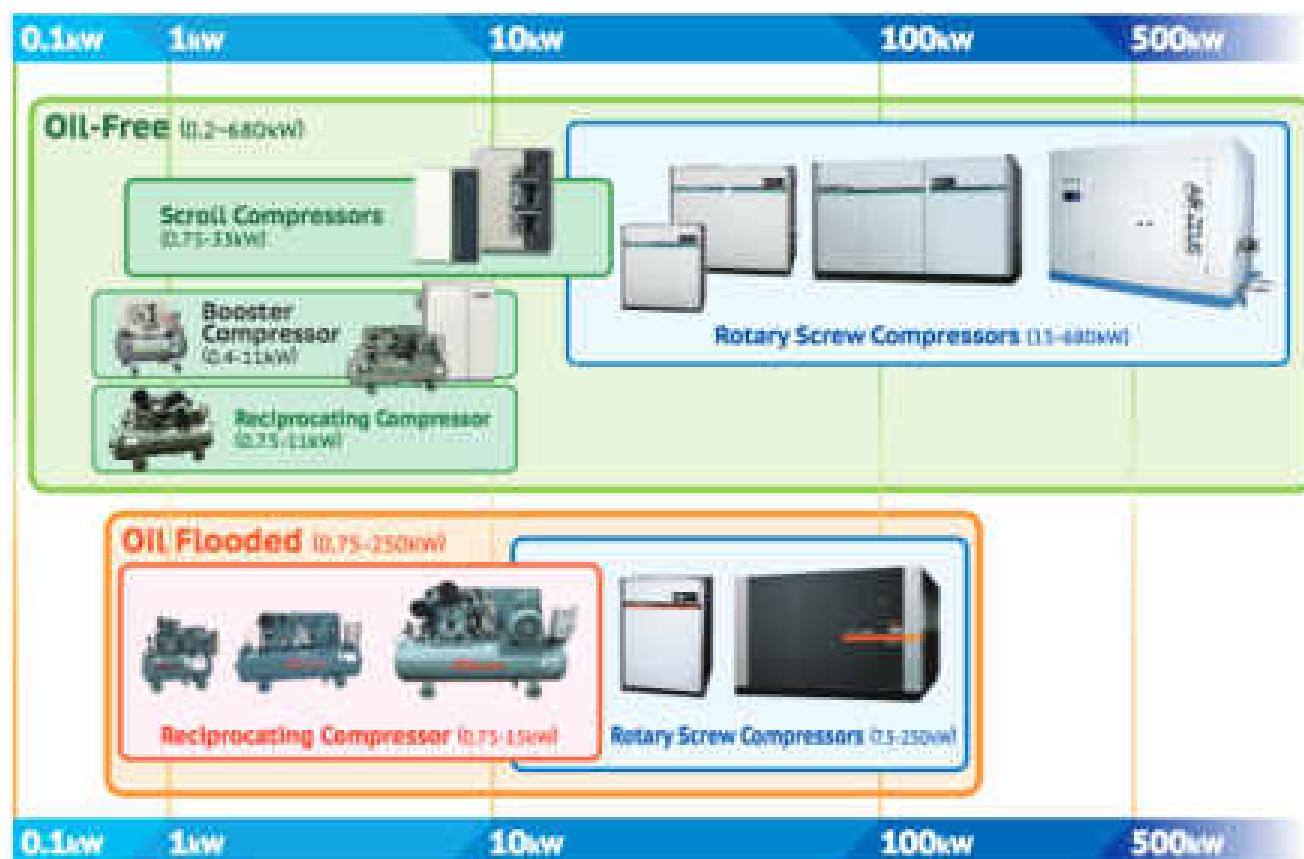
Air Circuit Breaker (ACB)

Standard Breaker	High Interrupting Breaker	AKN, AKS, AKH Series
		
E series	R series	
50A - 800A Frame	60A - 1200A Frame	630-6300 AF

Miniature Circuit Breaker (MCB)

MCB		RCBO	
			
BK63J		BTK63	
			
			
		RKC32	RKS50

Air-Compressor Line up



Nitrogen Gas Generator with Integrated 0.75 – 22kW Oil-free Scroll Compressor



Scroll Compressor Head

Refrigerated Air Dryer HAS series for 3 – 400kW air compressor



Air-Compressor Line up

OSP Series, Oil-flooded Rotary Screw Air Compressor



OSP Series

(kW)

			7.5	11	15	22	37	55	75	90	100	110	132	160	185	200	220	250
Single-stage (0.7-1.0MPa)	Air-cooled	Fixed Speed	●	●	●	●	●	●	●		●	●	●	●				
		Variable Speed	●	●	●	●	●	●	●		●	●		●				
	Water-cooled	Fixed Speed						●	●		●	●	●	●				
		Variable Speed						●	●		●	●		●				
Two-stage (0.7-1.0MPa)	Air-cooled	Fixed Speed								●		●	●	●	●	●	●	●
		Variable Speed								●		●	●	●	●	●	●	●
	Water-cooled	Fixed Speed								●		●	●	●	●	●	●	●
		Variable Speed								●		●	●	●	●	●	●	●

DSP Series, Oil-free Rotary Screw Air Compressor (Standard)

SDS Series, Oil-free Rotary Screw Air Compressor (High-end)



DSP Series

(kW)

			15	22	30	37	45	55	75	90	100	110	120	132	145	160	200	240
Single-stage (0.3-0.7MPa)	Air-cooled	Fixed Speed	●	●		●		●										
		Variable Speed		●		●		●										
	Water-cooled	Fixed Speed	●	●		●		●										
		Variable Speed				●		●										
Two-stage (0.7-1.0MPa)	Air-cooled	Fixed Speed		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		Variable Speed				●		●	●		●	●				●		●
	Water-cooled	Fixed Speed					●	●	●	●	●	●	●	●	●	●	●	●
		Variable Speed						●	●		●	●				●		●

SDS Series

(kW)

			55	75	90	110	132	145	160	185	200	220	250	280	315	350	390	440
Single-stage (0.25-0.35MPa)	Water-cooled	Fixed Speed	●	●	●	●	●	●	●	●	●	●	●	●	●			
		Variable Speed	●	●	●	●	●	●	●	●	●	●	●	●	●			
Two-stage (0.7-1.03MPa)	Water-cooled	Fixed Speed			●	●	●	●	●	●	●	●	●	●	●	●	●	●
		Variable Speed			●	●	●	●	●	●	●	●	●	●	●	●	●	●

*Bigger than 440kW is also available based on requirement.

Hitachi Lifting Products (Electric Rope & Chain Hoist)

Electric Rope Hoist Products Line Up :

- Standard model capacity 500 kg – 30 Tons on V-Series, A Series hoist with single or creep speed.
- Inverter rope hoist capacity 1 Ton – 30 Tons on Super V-Series hoist, VB Series.
- Explosion-Proof hoist capacity 1 Ton – 5 Tons for Standard & Low head room, Double-rail types.
- Cranes Saddle and other auxiliary support for cranes system.
- Dedicated rope hoist.
- Product is made in Japan.



Electric Chain Hoist Products Line Up :

- Light capacity 150 kg – 500 kg L-Series chain hoist offer high levels of machine durability and safety.
- Standard model capacity 1 Ton – 5 Tons on S-Series with single & Dual speed suitable for general work.
- High-Speed model capacity 1 Ton – 20 Tons F-Series for high-speed work.
- Super F2 Series Inverter capacity 2 Tons – 5 Tons variable speed control used for a wide range of application.
- Optical remote control SR series
- Dedicated rope hoist.
- Product is made in Japan.



Main Feature for Rope & Chain Hoists

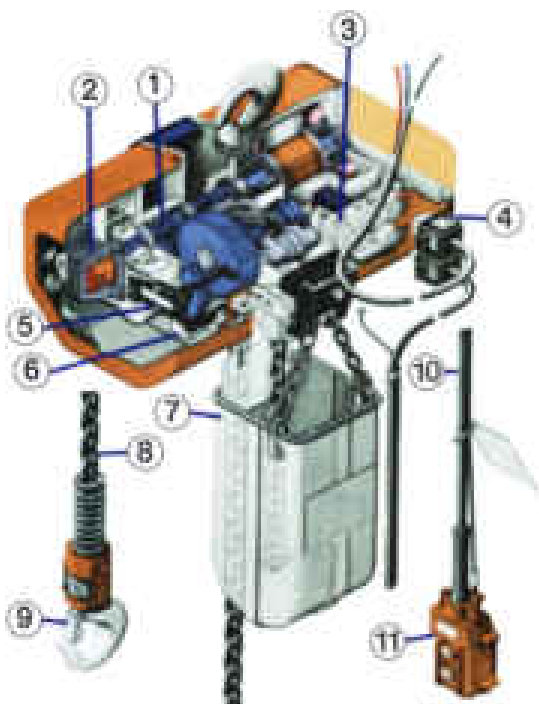
Rope Hoists



1. BRAKE WITH AUTOMATIC ADJUSTING DEVICE
2. AUXILIARY BRAKING DEVICE
3. TOP HOISTING SPEED
4. DURABLE WIRE ROPE
5. LOAD BLOCK FITTED WITH SAFETY LEVER
6. HOOK WITH PUNCH MARKS IS NEWLY APPROVED
7. INTEGRATED PUSHBUTTON CABLE
8. PLASTIC PUSHBUTTONS
9. MOTORIZED TROLLEY
10. CONTROL BOX
11. Hoisting motor is provide with a thermal protector



Chain Hoists



1. HELICAL GEARING
2. LONG LIFE BRAKE UNIT
3. LIMIT SWITCH(Upper and Lower)
4. PLUG-IN CABLES
- 5.ELECTRO-MAGNETICS CONTACTOR
6. Moist sizes are provided with REVERSE PHASE
7. CHAIN CONTAINER
8. POWER CHAIN
9. LOWER HOOK
10. PUSHBUTTON CABLE
11. PUSHBUTTON SWITCH

Industrial Coding & Marking

Ink Jet Printers

Product superiority, reliability and innovative technology are captured with our signature new generation Continuous IJ Printer.

UX2 Series



The Hitachi UX2 Series industrial small character high speed printer, categorized as a non-contact marking system, prints variable product information directly on various substrates.

- Cartridge-type Ink and Solvent system
- Intuitive Display & Simplified Printer Setup
- Multiple line printing: up to 6-lines printing
- Safe-Cleaning Station for Convenience and Safety
- Integration with Modern Communication Protocols
- Installation Capability Enhancement
- USB memory-compatible

Application

Printing on packages subjected to moisture



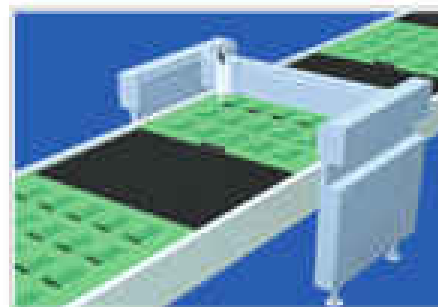
Printing on wrapping films



Automatic printing by movable head



Automatic printing on assembly parts



Industrial Coding & Marking

CO2 Laser Marker



LM C-301 Series

- 10W, 30W Output power
- 9.3 μ m, 10.2 μ m, 10.6 μ m Wavelength
- Operation with 10 inch full-color touchscreen
- Easy Operation, Reliability & Safety

Vision System



MC - 20S

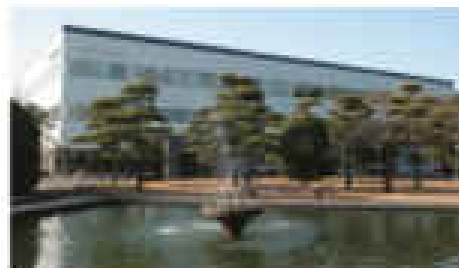
- Monochrome & Color Camera with 8mm, 12mm, 16mm lens
- 15.0-inch TFT LCD Touch panel display interface
- Dedicated white LED strobe lighting
- Simple, Reliable, Versatile

Narashino Division

1-1, Higashinarashino 7-chome
Narashino-shi, Chiba-ken, 275-8611
JAPAN

Main Products

Motor, Pump, Inverter, AC Servo Motor, DGBL, Blower, Fan



Nakajo Division

46-1, Tomioka, Tama-shi, Nigata-ken, 959-2608
JAPAN

Main Products

Transformer, Magnetic Starter and Contactor, Thermal Overload Relay, Molded Case Circuit Breaker, Earth Leakage Relay, Power Distribution & Utility Monitoring System, Programmable Logic Controller



Air Compressor System Division (Shimizu area)

390, Muramatsu, Shimizu, Shizuoka-shi,
Shizuoka-ken, 424-0926
JAPAN

Main Products

Air Compressor
(Lubricated/Oil Free)



Air Compressor System Division (Sagami area)

1116, Ozono, Ayase-shi, Kanagawa-ken, 252-1121
JAPAN

Main Products

Small Size Air Compressor
(Bebicon, Air Punch)



Air Compressor System Division (Tsuchiura area)

603, Kandatsumachi, Tsuchiura-shi, Ibaraki-ken,
300-0013
JAPAN

Main Products

Large Air Compressor
(Oil Free)



Hitachi See Electric & Machinery Co., Ltd.

Building No.1, Aung Chan Thar Housing Estate,
East Shwegondine Road, Bahan Township, Yangon,
MYANMAR

Main Products

Transformer



Energy Saving Systems Division (Taga area)

1-1, Higashitagata-cho 1-chome
Hitachi-shi Ibaraki-ken, 316-8502
JAPAN

Main Products

Ink Jet Printer, Wire Rope Hoist, Electric Chain Hoist



Hitachi Industrial Technology (Thailand), Ltd.

610 Moo 9, Kabinburi-Korat Rd. (K.M.12)
T.Nongki, A.Kabinburi, Prachinburi 25110
THAILAND

Main Products

Motor, Blower, Earth Leakage Relay, Magnetic Contactor,
Thermal Overload Relay, Contactor Relay, Molded Case
Circuit Breaker, Water Pump



Hitachi Industrial Equipment (Nanjing) Co., Ltd.

NO. 219 Tongtian Road, Jiangning Science Park,
Nanjing, 211100
CHINA

Main Products

Inverter, DCBL Controller



Hitachi Industrial Equipement (Malaysia) SDN.BHD.

Lot 105814, Jalan Sungai Kapar Indah
1/KU7, Kaw Industri Hi-Tech, Sungai Kapar Indah,
42200 Kapar, Selangor Darul Ehsan,
MALAYSIA

Main Products

Reciprocating, & Scroll Compressors



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Main Products

Screw Air Compressor



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