

Hitachi IJ Printer PXR Series

Micro Characters

Larger Small-size Characters

Pigmented ink

High-Speed Printing





THE SINGLE SOURCE FOR YOUR

END-OF-LINE

PACKAGING, MARKING AND CODING NEEDS

150 WILLIAM ST. PERTH AMBOY, NJ 08861 / TOLL FREE: 800-298-8936 / PHONE: 732-324-0800 / FAX: 732-324-4488

Hitachi IJ Printers for industrial use can be selected in accordance with varieties of printing needs.



Compliance with the RoHS Directive ReseHS

- With the PXR series, the amount of raw materials that affect the environment have been reduced, and the guidelines as set forth in the RoHS directive as issued by the European Union have been followed.
- *The RoHS Directive stands for "the restriction of the use of certain hazardous substances in electrical and electronic equipment". This Directive bans the placing on the EU market of new electrical and electronic equipment containing more than agreed levels of lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyl (PBB) and polybrominated diphenyl ether (PBDE) flame retardants.

Eco-friendliness and Sanitary

- •Varieties of ink types "Chrome-complex dye free ink and ethanol based ink"
- •The printer uses the stainless enclosure body that is sanitary, robust and rust resistant, which conforms to the IP55 international safety standards for dust-proof, drip-proof devices

The world's fastest, most comprehensive top-level high-speed printer.

•Maximum print speed 345 m/min (Font 5x5, 1 Line, Character pitch 1.5mm)

PXR PXR PS OF SIRE CONTROL OF SIRE C

Large Panel

- •10.4-inch large TFT liquid crystal touch-panel display.
- •Bright, easy-to-see and wide viewing angle.
- •The menu select system offers users exceptional ease and simplicity of use.

Memory Card

•A commonly available memory card can be used to store the copied "registered character data" and "print data".

Uses the PC Card (Flash ATA Type II (8MB -2GB))

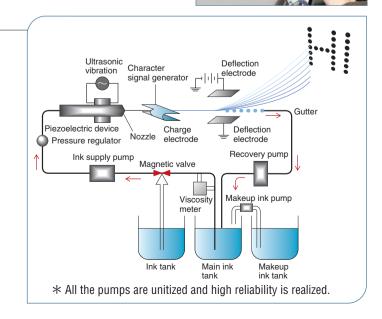
Principles of the Inkjet Printer

- •The ink pulled from the ink reservoir by the supply pump is set to specified pressure by a regulator, and supplied to the nozzle.
- •The ink is ejected from the nozzle and is subjected to vibrations by the piezoelectric device to create ink droplets.
- The ink droplets are charged at the charge electrode to create pixels.
- When the charged ink droplets pass through the deflection electrode, they will be deflected in the vertical direction in a quantity determined by the traveling speed and amount of charges applied to each droplet. As the object to be printed on moves in horizontal direction by a conveyer, characters will be printed.
- The ink droplets that are not used for printing are caught by the gutter and recovered into the main ink tank by the recovery pump.
- Ink used for printing is supplied from the main ink tank. Makeup ink is also supplied to the main ink tank to keep the fluid density constant. The inkjet printer runs best when maintaining optimum density control.



Viewing angle is drastically

increased



IJ Printer Selection Guide Character Size **Larger Small Characters** PXR-D For Pigmented Ink PXR-P **High-Speed Printing** PXR-H **Micro Characters** PXR-D BLK YEL P3

Product Lineups







Print Speed

PXR-P For pigmented ink

2

PXR-D for Micro Characters



These models are suitable for small markings, such as on small components, wire, etc. in the electric and electronic fields.

Main Features

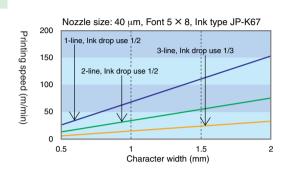
- Printing on products with extremely small marking areas is possible.
- These models are suitable for printing on small components.

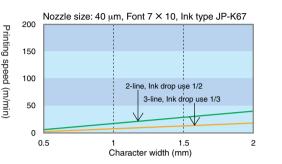


Printing Samples (Full Scale)

			PXR-D440W						
		Font	PXR-D240W						
PXR		5×5	O123456789ABCDEFGHIJKL	0123456789ABCDEFGHIJ KLMNOP@RSTUVWXVZABCD	3 LINE	0123456789ABCDEFGH IJKLMNOPRRSTUVWXVZ 0123456789ABCDEFGH	4 LINE	01234E6789ABCDEFGH IJKLMNOFGRSTUUWXYZ 01234E6789ABCDEFGH IJKLMNOFGRSTUUWXYZ	
	PXR-	5×7	0123456789ABCDEFGH	0123456789ABCDEFGH IJKLMNOPQRSTUVWXYZ	3 LINE	0123456789ABCEEFGH IJKLMNOPORSTUVWXYZ 0123456789ABCDEFGH	4 LINE	0123456709ABCDEFGH IJKLMOFGRSTUUWXV 0123456789ABCDEFGH IJKLMNOPGRSTUVWXVZ	
	PXR-D240W	7×10	0123456789ABCD	0123456789ABCD EFGHIJKLMNOPQR	3 LINE	01234567890123456 ABCDEFGHIJKLMNOPO	P P P	890123456789 STUUUXYZABCD STUUUXYZABCD	
	<u>!</u>	12×16 0123456789ABCDEF		BCDEFG			2 LINE	0123456789 ABCDEFGHIJ	
TXX-U440W		18×24	0123456	789ABCD	E				
		24×32	01234	56789	۴)			

Printing speed





Standard Specifications

Standard Specificat		100 -11		
	Printing spe	ecifications		
Model	PXR-D240W			PXR-D440W
Nozzle size	40 μm			
Max. print line number	Up to 2 Lines			Up to 4 Lines
Maximum number of print characters (each line)	1 Line: Up to 240 characters 2 Line: Up to 120 characters			40 characters 2 Line: Up to 120 characters 30 characters 4 Line: Up to 60 characters
Dot matrix (horizontal × vertical)	1–2 Line: 5×5, 5×8 (or 5×7), 7×10 (o 1 Line:12×16	or 9×7, 9×8)	1-4 Line: 5×5 1-3 Line: 7×1 1-2 Line: 12× 1 Line: 18×24	16,
Character height		0.04 - 0.12 inche	es / 1 – 3 mm	
Display & input device	Display: TFT LCD (10.4 inch, color), bac Input Device: Touch panel, input sound p			
Screen language 2 language selectable:	English, Chinese, Korean, Thai, Vietnamese, German, French, Dutch, Italian, Spanish, Portuguese, Swedish, Danish, Greek, Russian, Czech, Polish, Arabic, Serbian, Turkish, Hungarian, Bulgarian and Catalan available			
Maximum print rate (characters / s) (Font 5 × 5, space 1, 1 line)	Up to 1,514			
Standard characters	Alphanumeric (A–Z, a–z, 0–9), symbols (27), space: Total 90			
Number of user pattern registration	Each dot matrix 128 patterns			
Print functions	Calendar, Counter, Message storage (150 messages), Font mixture, Passwords security, Bar codes (code39, ITF, NW-7, EAN13/UPC-A, Code128/EAN128), Data Matrix 2-D code (Alphabet : 49 characters, Numerals: 98 characters), Encoder function with speed follow-up, Reciprocating printing, etc.			
Input signal	Print target detection, Printing stop, Reciprocating printing, Rotary encoder pulse			
Output signal	Print ready, Fault, Warning, Print in progress or Print end, Online			
Data interface	RS-232C at baud rates selectable up to 38.4 kbps			
	General sp	ecifications		
Operating temperature range	32-95 °F / 0-35 °C (JP-K67, K69 lnk)			
Humidity range	30-90 % R.H. (no condensation) Note: When humidity is more than 85 %RH, please purge inside of printhead by dry and clean air.			
Atmosphere	No corrosive gas			
Power supply (Automatic voltage selection)	AC 100-120 / 220-240V±10 % 50/60 Hz 150 VA (AC Inlet)	Printhead cable I	ength	13.1 ft / 4 m
Approval	CE, UL, cUL, C-Tick, FCC, ICES	Overall size (width × depth	× height)	15.7×12.4×20.3 inches 400×315×515 mm
Cabinet	Stainless Steel / IP55	Approximate wei		55 lbs / 25 kg

Dimensions		
Console	Printhead : PXR - D*40W	
15.7° 290mm Printhead	1.57° 40mm	

^{*1.}Hitachi Industrial Equipment Systems Co.,Ltd. (Hitachi) shall not be liable for any manufacturing loss, or any product damege due to trouble or malfunction of the ink jet printer. *2. Hitachi continually improves products. The right, therefore, is reserved to alter the design and/or specifications without giving prior notice.

PXR-D for Larger Small-size Characters

The model is suitable for printing large characters on cartons, woods and buildings.

Main Features

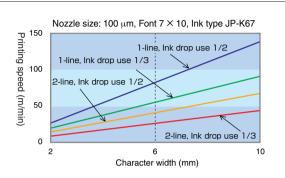
- The largest printing characters and print distance can be made among PXR series.
- Fast dry and high adhesion inks can be used with this model.

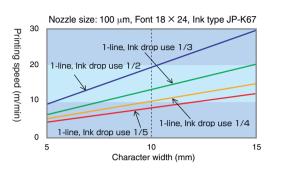


Printing Samples (Full Scale)

Font	PXR-E	0410W
1 011	Standard	Bold
7×10	0123456789ABCDE 0123456789ABCDE	0123456789ABCDE 0123456789ABCDE
12×16	01234ABCD	
12/10		
18×24	012ABCD	012ABCD
TOXET	012ABC	012ABC
24×32	012AB	012AB
24/32	012AB	012AB

Printing speed





Standard Specifications

	Printing s _t	pecifications	
Model		PXR-D410W	
Nozzle size		100 μm	
Max. print line number		Up to 4 Lines	
Maximum number of print characters (each line)	1 Line: Up to 240 characters 2 Line: Up to 120 characters 3 Line: Up to 80 characters 4 Line: Up to 60 characters		
Dot matrix (horizontal × vertical)	1-4 Line: 5×5, 5×8 (or 5×7) , 9×8 (or 9×7) 1-3 Line: 7×10 1-2 Line: 12×16, 1 Line: 18×24, 24×32		
Character height		0.12 - 0.59 inches / 3 - 15 mm	
Display & input device	Display: TFT LCD (10.4 inch, color), bac Input Device: Touch panel, input sound		
Screen language 2 language selectable:	English, Chinese, Korean, Thai, Vietnamese, German, French, Dutch, Italian, Spanish, Portuguese, Swedish, Danish, Greek, Russian, Czech, Polish, Arabic, Serbian, Turkish, Hungarian, Bulgarian and Catalan available		
Maximum print rate (characters / s) (Font 5 × 5, space 1, 1 line)	Up to 468		
Standard characters Alphanumeric (A–Z, a–z, 0–9), symbols (27), space: Total 90			
Number of user pattern registration	Each dot matrix 128 patterns		
Print functions	Calendar, Counter, Message storage (150 messages), Font mixture, Passwords security, Bar codes (code39, ITF, NW-7, EAN13/UPC-A, Code128/EAN128), Data Matrix 2-D code (Alphabet : 49 characters, Numerals: 98 characters), Encoder function with speed follow-up, Reciprocating printing, etc.		
Input signal	Print target detection, Printing stop, Rec	iprocating printing, Rotary encoder p	pulse
Output signal	Print ready, Fault, Warning, Print in prog	ress or Print end, Online	
Data interface	RS-232C at baud rates selectable up to 38.4 kbps		
	General sp	pecifications	
Operating temperature range	32-95 °F / 0-35 °C (JP-K67, K69 Ink)		
Humidity range	30-90 % R.H. (no condensation) Note: When humidity is more than 85 %RH, please purge inside of printhead by dry and clean air.		
Atmosphere	No corrosive gas		
Power supply (Automatic voltage selection)	AC 100-120 / 220-240V±10 % 50/60 Hz 150 VA (AC Inlet)	Printhead cable length	13.1 ft / 4 m
Approval	CE, UL, cUL, C-Tick, FCC, ICES	Overall size (width × depth × height)	15.7×12.4×20.3 inches 400×315×515 mm
Cabinet	Stainless Steel / IP55	Approximate weight	55 lbs / 25 kg

Dimensions		
Console	Printhead	
15.7° 290mm Printhead	1.57* 40mm	

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PXR-P for Pigmented Ink

The model is suitable for various dark color surfaces.

Main Features

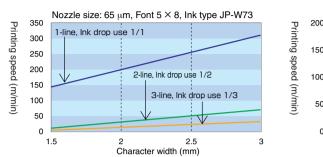
- Whiteness and adhesion strength are improved by newly developed white-pigmented ink.
- New ink circulation system is sure to stir the pigment particles.

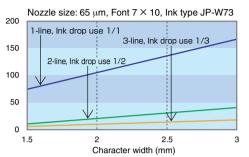


Printing Samples (Full Scale)

Font	PXR-P460W
5×5	1 0123456789A 01234
5×7	O1234567 O1234 O1234 O1234 O12345 NOPQRS O12345 O12345
7×10	012345 012 N 0123 N 0123456789 N N N N N N N N N N N N N N N N N N N
12×16	0123456789ABCDEFGHIJ 23456789ABCDEFGHIJ ABCBÉ
18×24	0123456789ABCDEFGHIJ 0123456789ABCDEF
24×32	0123456789ABCDE

Printing speed





Standard Specifications: Nozzle size 65µm

	Printing specifications				
Model		PXR-P460W			
Nozzle size	ozzle size 65 μm				
Max. number of lines		Up to 4 Lines			
Maximum number of 1 Line: Up to 240 characters 2 Line: Up to 120 characters Characters per line 3 Line: Up to 80 characters 4 Line: Up to 60 characters					
Dot matrix (Horizontal × vertical)	1-4 Line : 5 × 5, 5 × 8 (or 5 × 7), 9 × 8 (or 9 × 7) 1-3 Line : 7 × 10 1-2 Line : 12 × 16 1 Line : 18 × 24, 24 × 32				
Character height		0.08 - 0.39 inches / 2-10 mm			
Display & input device	Display: TFT LCD (10.4 inch, color), bac	cklight provided Input Device : Touch	panel, confirmation beep		
Screen language 2 language selectable	English, Chinese, Korean, Thai, Vietnam Greek, Russian, Czech, Polish, Arabic, S		, Spanish, Portuguese, Swedish, Danish, an and Catalan available		
Maximum print rate (characters / s) (Font 5 × 5, space 1, 1 line)	Up to 2,083				
Standard characters Alphanumeric (A–Z, a–z, 0–9), symbols (27) space : Total 90					
Number of logos / special character storage Up to 128					
Print functions	Calendar, Counter, Message storage (150 messages), Font mixture, Passwords security, Bar codes (Code 39, ITF, NW-7, EAN13 / UPC-A, Code 128 / EAN128), Data Matrix 2-D code (Alphabet : 49 characters, Numerals: 98 characters), Encoder Function with speed follow-up, Reciprocating printing, etc.				
Input signals	Print target detection, Printing stop, Reci	procating printing, Rotary encoder p	ulse		
Output signals	Print ready, Fault, Warning, Print in progr	ress or Print completed, Online			
Serial interface	RS-232C at baud rates selectable up to 38.4 kbps				
	General spe	cifications			
Operating temperature range	32-104°F / 0-40 °C (JP-W73 Ink)				
Humidity range	30-90 % R.H.(no condensation) Note: When humidity is more than 85 %RH, please purge inside of printhead by dry and clean air.				
Atmosphere	No corrosive gas				
Power supply (Automatic voltage selection)	AC 100-120 / 200-240 V±10 % 50/60 Hz 150 VA(AC Inlet)	Printhead cable length	13.1 ft / 4m		
Approval	CE, UK, cUL, C-Tick, FCC, ICES	Overall size	15.7×12.4×20.3 inches		
Air supply	0.2-0.4 MPa	(width × depth × height)	400 × 315 × 515 mm		
Cabinet	Stainless Steel / IP55	Approximate weight	55 lbs / 25 kg		
	Dimensions				

Dimensions		
Console	Printhead	
15.7" 11.4" 290mm Printhead	1.57° 228mm	

- *1. The print samples have been produced under ideal conditions. Print quality depends printing speed.
- *2. Hitachi Industrial Equipment Systems Co.,Ltd. (Hitachi) shall not be liable for any manufacturing loss, or any product damage due to trouble or malfunction of the ink jet printer.
- *3. Hitachi continually improves products. The right, therefore, is reserved to alter the design and/or specifications without giving prior notice.

PXR-H for High-speed printing

The model meets high-speed printing needs on lines of electric wires, cans, etc.

Main Features

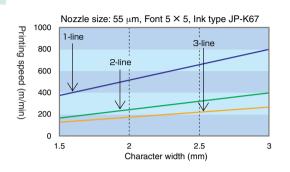
- Print quality has further improved by changes of nozzle control method.
- The world top class high-speed printing is possible

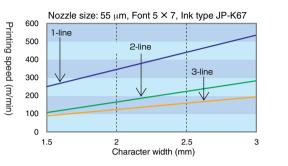


Printing Samples (Full Scale)

Font	PXR-H450W		
	O123456789ABCDEFGHIJKLMN		
5×5	O123456789ABCDEFGHIJKLMN ABCDEFGHIJKLMNOP@RSTUVWX		
	O123455789ABCDEFGHIJKLMN ABCDEFGHIJKLMNOPQRSTUVWX O123456789ABCDEFGHIJKLMN		
	0123456789ABCDEFGHIJKLMN		
5×7	0123456789ABCDEFGHIJKLMN ABCDEFGHIJKLMNOPQRSTUVWX		
<i>5/</i> 1/	0123456789ABCDEFGHIJKLMN ABCDEFGHIJKLMNOPQRSTUVWX 0123456789ABCDEFGHIJKLMN		
	O123456789ABCDEFGHIJKLMM ABCDEFGHIJKLMNOPGRSTUVWX O123456789ABCDEFGHIJKLMN ABCDEFGHIJKLMNOPGRSTUVWX		
12×16			

Printing speed





Standard Specifications

Standard Specificat			
	Printing spe	ecifications	
Model	PXR-H450W		
Nozzle size		55 μm	
Max. print line number		Up to 4 Lines	
Maximum number of print characters (each line)	1 Line: Up to 240 characters 2 Line: Up to 120 characters 3 Line: Up to 80 characters 4 Line: Up to 60 characters		
Dot matrix (horizontal × vertical)	1–4 Line: 5×8 (or 5×7), 9×8 (or 9×7) 1–3 Line:5×5 1–2 Line:7×10 1 Line: 12×16		
Character height		0.08 - 0.26 inches / 2 - 6.5 mm	
Display & input device	Display & input device Display: TFT LCD (10.4 inch, color), backlight provided Input Device: Touch panel, input sound provided		
Screen language 2 language selectable:	English, Chinese, Korean, Thai, Vietnam Danish, Greek, Russian, Czech, Polish,		
Maximum print rate (characters / s) (Font 5 × 5, space 1, 1 line) Up to 3,173			
Standard characters	Alphanumeric (A–Z, a–z, 0–9), symbols (27), space: Total 90		
Number of user pattern registration Each dot matrix 128 patterns			
Print functions	Calendar, Counter, Message storage (150 messages), Font mixture, Passwords security, Bar codes (code39, ITF, NW-7, EAN13/UPC-A, Code128/EAN128), Encoder function with speed follow-up, Reciprocating printing, etc.		
Input signal	Print target detection, Printing stop, Rec	iprocating printing, Rotary encoder p	pulse
Output signal	Print ready, Fault, Warning, Print in prog	ress or Print end, Online	
Data interface	RS-232C at baud rates selectable up to	38.4 kbps	
	General spe	cifications	
Operating temperature range	32-104 °F / 0-40 °C (JP-K67, K69 Ink)		
Humidity range	30-90 % R.H. (no condensation) Note: When humidity is more than 85 %RH, please purge inside of printhead by dry and clean air.		
Atmosphere	No corrosive gas		
Power supply (Automatic voltage selection)	AC 100-120 / 220-240V±10 % 50/60 Hz 150 VA (AC Inlet)	Printhead cable length	13.1 ft / 4 m
Approval	CE, UL, cUL, C-Tick, FCC, ICES	Overall size (width × depth × height)	15.7×12.4×20.3 inches 400×315×515 mm
Cabinet	Stainless Steel / IP55	Approximate weight	55 lbs / 25 kg
	Dimen	sions	
Concello			

Dimensions		
Console	Printhead	
15.7" 11.4" 290mm Printhead	1.57" 9.0" 228mm	

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PXR Series Software Options

Addition of print columns (Total 1,000 characters) [SOP-02]

The number of printable characters can be increased from standard 240 characters (24 items) to 1,000 characters (100 items)

Standard	240 (characters)	24 (items)
Addition	760 (characters)	76 (items)
Total	1,000 (characters)	100 (items)

Special Communication Function A [SOP-04]

Function	Content	
Output of print contents	Print content will be transmitted by serial communication when the printing is completed or on request.	
Output of print completion code	Print completion code will be transmitted when the printing is completed.	
Status output	The printer status will be output when any change occurs in status, or an inquiry of status is given from an external device.	
Transmission of remote operation	Remote operations of start, stop, deflection voltage (ON/OFF) and fault clear are possible.	
Transmission of clock initialization	Current time, calendar time control, calendar time and clock system (24/12-hour system) can be set.	
Transmission of print data registration	Print data can be registered in the specified message number, and the registered print data can be recalled.	

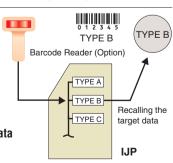
Barcode Reader Connection [SOP-08]

Function for setting print contents

The contents of barcode read by the barcode reader are transmitted to IJ printer as a character string and it is set in the IJP as a print item.

Function for recalling print data

The contents of barcode read by the barcode reader are transmitted to IJP as a recall code and the print data that has been assigned to the code is recalled.

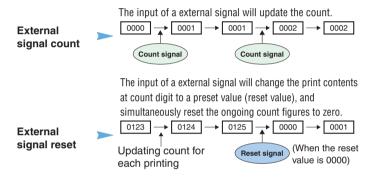


Addition of registered data elements (Total 300 data) [SOP-03]

The number of print data can be increased from standard 150 data to 300 data

Standard	150 data
Addition	150 data
Total	300 data

External Signal Function A [SOP-05]



Switching print contents using external signal

This function reflects print contents that have previously been transmitted and then temporarily held in printing when external signal is input.

Calling up print data using external signal

When an external signal is input, this function allows operator to recall previously registered print contents and print format, and set them as current print data.

Output during calendar updating

When IJ printer is in printable status and print contents are updated by internal calendar, a signal will be output to the optional terminal board.

Output notifying completion of signal input

Printing

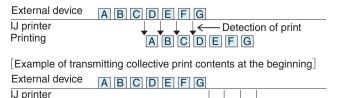
When receiving external signal for count, resetting, switching of print contents or data calling, a signal will be output to the optional terminal board.

ABCDEFG

Communication Buffer [SOP-16-03]

The print contents that are temporarily stored in the buffer are retrieved and printed one by one after the print ready status is set. The buffer capacity is 100 print items.

[Example of transmitting print contents constantly during printing]



Samples of Application PXR SERIES

IJ Printer is Applied for Large Varieties of Printing.

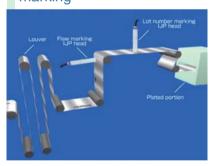
Cap label print inspection



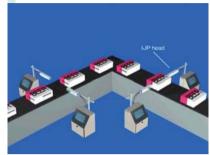
Traversing head automatic cup marking



Steel-plate pitch print marking



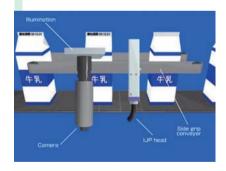
Paper-pack print inspection



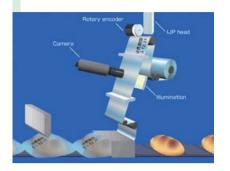
Roll-paper automatic marking



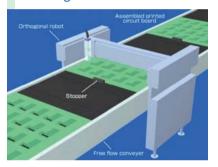
Carton printing



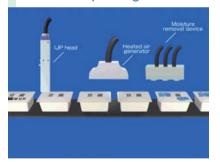
Film package print inspection



Assembled parts automatic marking



Moisture/condensation removable printing







Network

Hitachi Industrial Equipment Systems Co., Ltd. meets customers' needs through the total network which can supply speedy design, production, sales, service and engineering for industrial equipment and systems.



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The Energy Saving Systems Division (Taga Division) of Hitachi Industrial Equipment Systems Co., Ltd. obtained ISO 14001 certification, an international standard for environmental management systems.



The Energy Saving Systems Division (Taga Division) of Hitachi Industrial Equipment Systems Co., Ltd. obtained international standard ISO 9001 certification for the quality assurance of the hoist motor block contained in this brochure.