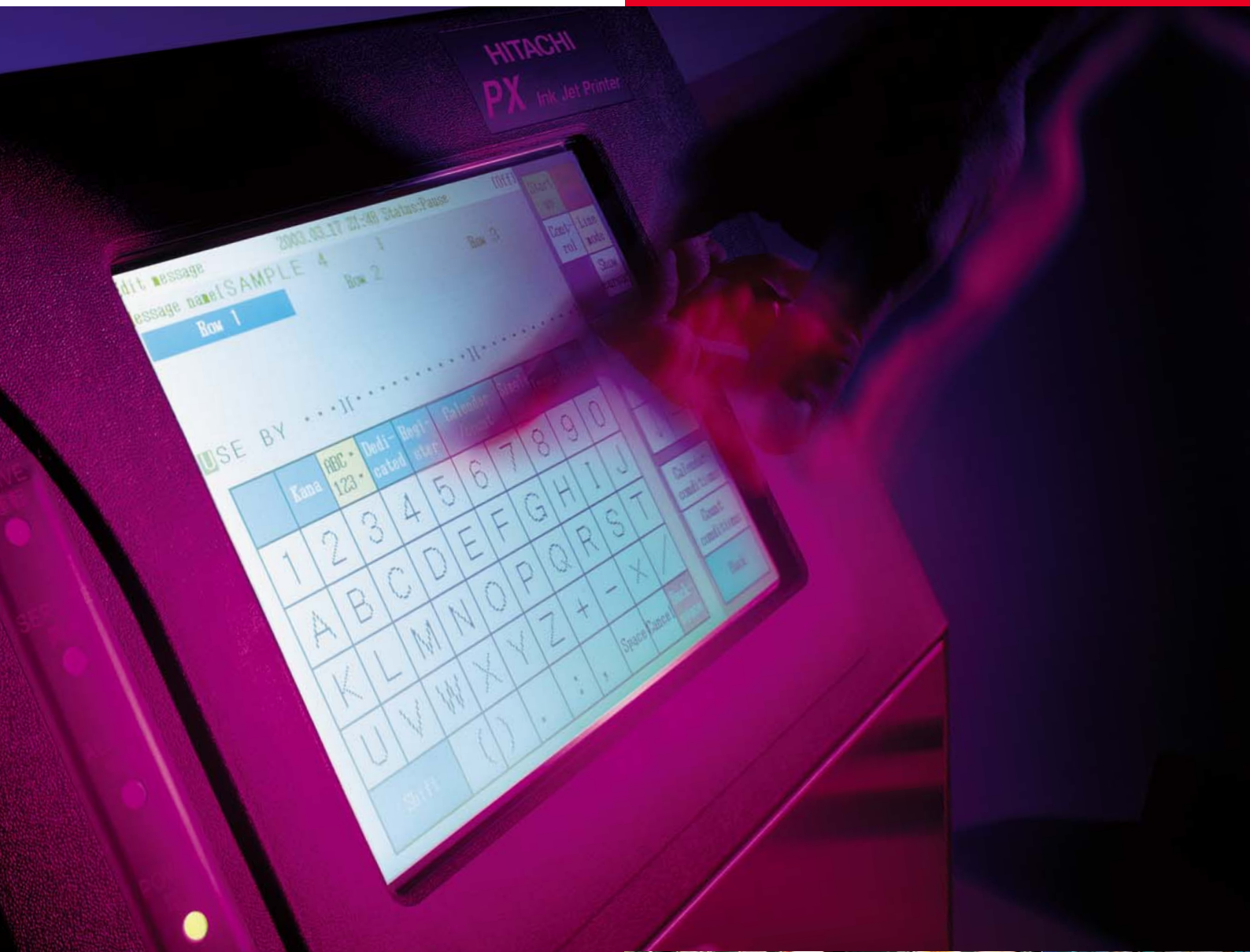


HITACHI
Inspire the Next

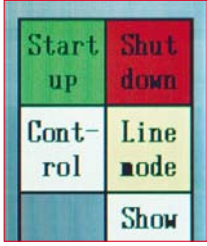


Hitachi CIJ Printer
PX Series

for Industrial Marking

HITACHI

Inspire the Next



One press of the START-STOP button on the touch panels enables the PX Ink Jet Printer to be powered up or down in a controlled manner.



The logo editor integrated as standard equipment permits the easy additional entry of user-defined logos and symbols.



The PX ink jet printer prints products with a conveyor running speed of up to 6 m/s.



The optimized working method of the PX Ink Jet Printer allows a minimal use of consumable materials.

On the average only 3.5-ml/h of solvent is consumed at an ambient temperature of 68 °F (20 °C).



250V~10-16A



12345
ABCDEF
HITACHI

abcde
123456
IJP



The viscosity control always ensures an optimum flow of ink under different environmental conditions. This minimizes the affect of ambient conditions like temperature and humidity.



The PCMCIA card is used for fast configuration, programming and data storage. The application-specific data can then easily be used in other PX ink jet printers.



The unique print head self-cleaning function enables fast start-up even after longer stand-stills. The special print head design ensures low consumption values and virtually emission-free operation.



The 10.4" touch panel enables simple operation of the PX Ink Jet Printer. With it all parameters and data required for the printing process can be specified and easily read.

Hitachi Ink Jet Printers *PX Series*

The freely-programmable PX Ink Jet Printer is intended for industrial applications. The printer's mode of operation is based on the Continuous Ink Jet (CIJ) principle. Possible uses range from the simplest applications, like printing the date, to complex applications in which the printer can be integrated in a system of machines via a network connection.

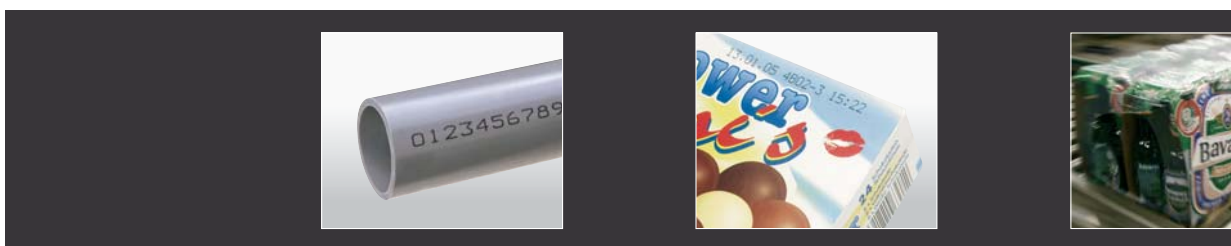
The optimized print head can be installed in any position and produces a 1 to 4-line printed image in consistently good quality – even on uneven or structured surfaces.

The use of a wide range of different inks enables the marking of extremely diverse materials like films, glass, metal, plastic, paper etc. virtually regardless of the environment. The choice ranges from different standard inks to special inks that are colorfast, heat resistant and can be read with UV.

Example uses are MHD, lot numbers, logos, barcodes, consecutive numbering, production data like the date, time etc.

The PX Ink Jet Printer is operated by means of a 10.4" touch panel with a clearly laid out and simply structured graphic user interface.

Viscosity control and integrated solvent recovery reduce the consumption to an absolute minimum. At the same time, the unit operates virtually emission-free, which makes the use of the PX Ink Jet Printer in continuous operation particularly economical, environment and maintenance-friendly.



IJP 7X10
3 LINES
BBE 04-05

abcdefghijkl
1234567890
ABCDEFGHIJ
4 LINE 5X7

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H8S high-performance chip,
controls the entire ink
circulation system in the
Hitachi PX Ink Jet Printer.

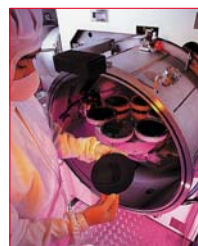
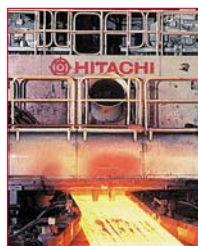
The Company

For more than 90 years our motto has been: Where there's high-tech, there's Hitachi.

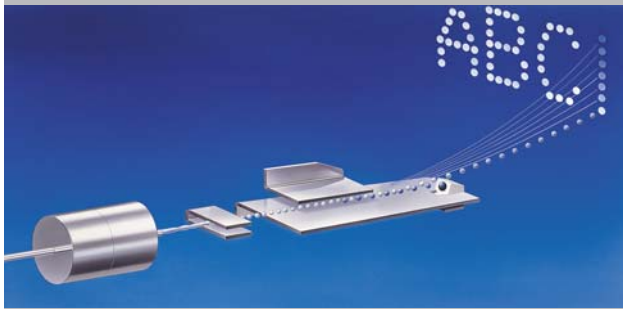
The company's product line comprises over 20,000 products. From computers and semiconductors, to consumer goods to complete energy and industrial systems, as well as transport systems. When developing trend-setting technologies, the focus is on environment friendliness and efficient use of energy. Hitachi products are tested and certified in accordance with international standards.

With total sales of over EURO 60 billion, the Hitachi corporate group employs more than 320,000 employees in its over 1,000 subsidiaries. These employees are the corporation's most valuable capital. With dedication, know-how and experience, they produce top quality products.

Competitive advantages through innovation. Hitachi maintains research and development departments in all branches of the company which are continually working on the improvement of products and technologies. Synergy effects are specifically used in product policy. As a result, many components for Hitachi products are produced within the company itself. A prime example of this is the H8S high-performance chip. It provides special power for a number of electronics products and controls the entire ink circulation system in the Hitachi PX Ink Jet Printer.



Hitachi Ink Jet Printers



Hitachi Ink Jet Printers

For more than 25 years Hitachi has developed and produced ink jet printers based on the Continuous Ink Jet (CIJ) principle for industrial marking.

The use of the company's own components ensures not only the extremely high quality level, it also explains the excellent value for the money. Hitachi ink jet printers have been developed with international standards, such as the CE standard, firmly in mind.

The use of trend-setting technologies like touch panels for data input and unit control, automatic print head cleaning and a virtually emission-free ink circulation system guarantees top performance, automatic adaptation to environmental conditions and very low consumption values.

Well-known companies with an international presence, like Coca-Cola, Procter & Gamble, Nestlé, Sony, Arla Foods, Bavaria and Krones use Hitachi ink jet printers for a broad range of marking applications.

Product Development

1975	Model DP	First Japanese continuous ink jet printer for Coca Cola
1977	Model P	Microprocessor-based model
1981	Model S	Standard model/60µm jet
1985	Model F	For multi-function applications
1987	Model FX	16-bit microprocessor
1990	GX Series	Automatic print head cleaning
1994	HX Series	Lower consumption/export model
1998	KX Series	Simple operation with 10.4" touch panel
2003	PX Series	IP 55/CE/reduced consumption
2004	PB Series	For standard application, 2 line printing
2005	PX-P Series	For pigment-based inks



All features at a glance for PX-D (Standard inks) and PX-P (pigment-based inks)

Character size	Standard Size		Small Size		Large Size
	65 µm		40 µm		100 µm
Nozzle size (µm)	65 µm		40 µm		100 µm
Model	PX-D260E	PX-D460E / PX-P460E	PX-D240E	PX-D440E	PX-D410E
Max. print line number	Up to 2 Lines	Up to 4 Lines	Up to 2 Lines	Up to 4 Lines	Up to 4 Lines
Maximum number of print characters (characters/line)	1 Line: Up to 240 2 Lines: Up to 120	1 Line: Up to 240 2 Lines: Up to 120 3 Lines: Up to 80 4 Lines: Up to 60	1 Line: Up to 240 2 Lines: Up to 120	1 Line: Up to 240 2 Lines: Up to 120 3 Lines: Up to 80 4 Lines: Up to 60	1 Line: Up to 240 2 Lines: Up to 120 3 Lines: Up to 80 4 Lines: Up to 60
Dot matrix (horizontal x vertical)	1-2 Lines: 5 x 5, 5 x 8 (or 5 x 7), 7 x 10 (or 9 x 7, 9 x 8) 1 Line: 12 x 16	1-4 Lines: 5 x 5, 5 x 8 (or 5 x 7), 9 x 8 (or 9 x 7) 1-3 Lines: 5 x 5, 5 x 8 (or 5 x 7), 7 x 10 (or 9 x 7, 9 x 8) 1-2 Lines: 12 x 16 1 Line: 18 x 24, 24 x 32	1-2 Lines: 5 x 5, 5 x 8 (or 5 x 7), 7 x 10 (or 9 x 7, 9 x 8) 1 Line: 12 x 16	1-4 Lines: 5 x 5, 5 x 8 (or 5 x 7), 9 x 8 (or 9 x 7) 1-3 Lines: 5 x 5, 5 x 8 (or 5 x 7), 7 x 10 (or 9 x 7, 9 x 8) 1-2 Lines: 12 x 16 1 Line: 18 x 24, 24 x 32	1-4 Lines: 5 x 5, 5 x 8 (or 5 x 7), 9 x 8 (or 9 x 7) 1-3 Lines: 5 x 5, 5 x 8 (or 5 x 7), 7 x 10 (or 9 x 7, 9 x 8) 1-2 Lines: 12 x 16 1 Line: 18 x 24, 24 x 32
Character height	2-10 mm		1-5 mm		3-15 mm
Display & input device	Display: Liquid crystal touch panel (10.4 inch, color), backlight provided. Input Device: Touch panel, input sound provided. Display Language: German, english, french, italian, spanish, portugese, dutch, swedish, arabic, greek, russian, czech				
Maximum Print Rate	PX-D: Up to 2.296 Zeichen/s PX-P: Up to 2.038 Zeichen/s (Font 5 x 5, space 1, 1 line)		Up to 1,514 character/s (Font 5 x 5, space 1, 1 line)		Up to 486 character/s (Font 5 x 5, space 1, 1 line)
Standard Characters	Alphanumeric (A-Z, a-z, 0-9), general symbols (27), Space: total 90				
Number of user pattern registration	Each dot matrix 128 characters				
Print functions	Calendar, Basic counting, Data storage (150 data), Dot matrix mixture, Password, Bar codes (code 39, ITF, NW-7, EAN13), Data Matrix 2-D Code (PX-P only), Code 128, Data matrix code, Speed follow-up, Reciprocation printing, etc.				
Input signals	Print object detection, Printing stop, Reciprocation printing, Rotary encoder pulse, Run, Stop, Reset Abnormality				
Output signals	Ready to print, Abnormality, Alarm, Print in progress or print end, Communication online.				
Data interface	RS-232C at baud rates selectable up to 19.2 kbps				

General specifications:

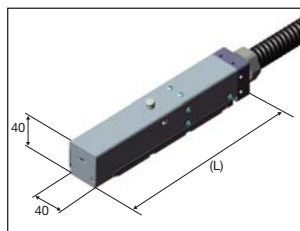
Print head cable length	4 m	Humidity Range	30-90 % R.H. (no condensation)*
Power supply (Automatic voltage selection)	AC 100-120 / 220-240 V ±10 % 50/60 Hz 150 VA	Operating temperature range	PX-D: 0-45 °C (JP-K69 Ink) PX-P: 0-40 °C (JP-W73 Ink)
Cabinet	Stainless Steel / IP55	Overall size (W x D x H)	400 x 290 x 515 mm
Air supply (PX-P)	2-4 bar (0.2-0.4 Mpa)	Approximate weight	25 kg
Approval	CE, C-Tick		

* Note: When humidity is more than 85 % RH, please purge inside of print head by air.

PX Series Dimensions of Control Unit and Printhead



Control Unit



Printhead

Nozzle size	Printhead Length (L)
65 µm	230 mm
40 µm	215 mm
100 µm	235 mm

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