

# Ink Jet Printer PH Series



# CIJ-Printer Systems you can always rely on. Since 1975.

40 years of developing and producing ink jet systems has led to machines with the highest level of reliability in the industry.

All functionally critical parts are manufactured in-house to ensure not only an extremely high level of quality, it also explains the excellent cost performance over the printers lifecycle.

## Easy operation and maintenance

- User friendly and easy operation via a touch panel
- Step by step screen guidance for all maintenance routines
- Well designed accessibility to the ink system for easy and quick maintenance
- Automatic cleaning function for reliable start/stop performance
- Error log function to find errors quickly

## High Reliability

- Printhead body is made of cast aluminium for higher rigidity
- Nozzle and gutter are automatically cleaned before shut down
- The temperature-controlled head and measured viscosity control system ensures consistent and efficient operation
- Wide operating temperature range (0–45°C JP-K67, JP-K69 ink)

## Economical

- Economical ink system which minimizes the running cost due to low make-up consumption and no daily cleaning required
- Individually replaceable wearing parts and components

Our printers have been developed to international standards and our commitment to environmentally sound practices means we frequently exceed even the most demanding requirements.

Hitachi Ink Jet Printers have always been at the forefront for economic & environmentally friendly solutions and our new PH model is the perfect fusion of Experience, Reliability and Economic Efficiency.



## Ecological

- Ecological ink system with minimized vapour exposure
- Consumables 'free of chrome-complex dye' and ethanol based inks available

1975

// DP



1977

// P Type



1981

// S Type



1985

// F Type



1987

// FX series



1990

// GX series



## Range of Functions

- **Multiple printing functions**

Mixed number of lines, font mixture, creation of logos, various barcodes and 2D code printing

- **User-friendly coding functions**

Message registration/recall, traverse printing, remote communication


- **Operational assistance functions**

On screen step-by-step guidance, alarm log history, user password protection

- **Various coding functions**

Date/Time automatic update, calendar substitution and counter

## Standard printing samples in full scale

Font		PH-D260W		PH-D460W	
PH-D260W	5x5	1 LINE 0123456789ABCDEF6H 012345678	2 LINE 012345678 ABCDEFGHI	3 LINE 012345678 ABCDEFGHI JKLMNOPQR	4 LINE 012345678 ABCDEFGHI JKLMNOPQR STUVWXYZA
	5x7	1 LINE 0123456789ABCD 0123456	2 LINE 012345678 ABCDEFGHI	3 LINE 012345678 ABCDEFGHI JKLMNOPQR	4 LINE 012345678 ABCDEFGHI JKLMNOPQR STUVWXYZA
	7x10	1 LINE 0123456789 012345	2 LINE 01234567 ABCDEFGH	3 LINE 0123456789012345678 ABCDEFGHIJKL MNOPQRSTU VWXYZABCDEFGHIJKL	
PH-D460W	12x16	1 LINE 0123456789ABC 0123456			2 LINE 01234 ABCDE
	18x24	1 LINE 0123456789 0123456789ABCDE			
	24x32	1 LINE 0123456789ABCDEF 012345			

1. The print samples have been produced under ideal conditions. Print quality depends on printing speed.

1994

// HX series



1998

// KX series



2006

// PXR series



2011

// PH series



// RX series



# Standard Specification

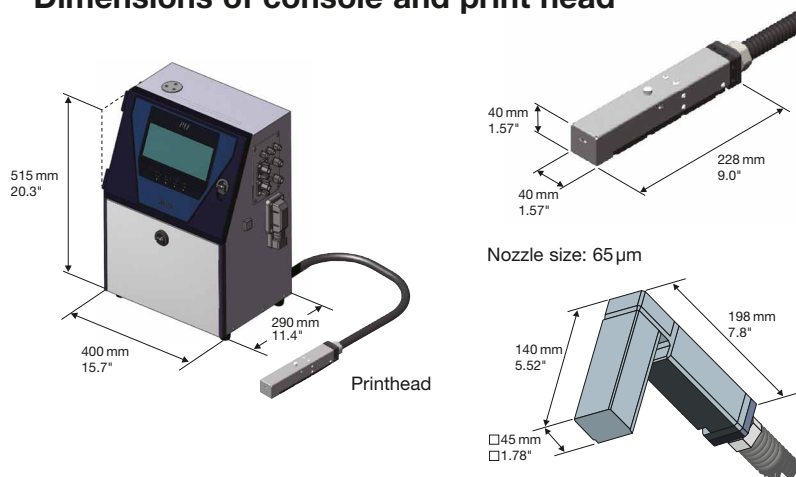
Printing specifications		
Model	PH-D260W	PH-D460W
Nozzle size	65 µm	65 µm
Max. print line number	Up to 2 lines	Up to 4 lines
Maximum number of print characters (each line)	1 Line: Up to 240 characters 2 Line: Up to 120 characters	1 Line: Up to 240 characters 2 Line: Up to 120 characters 3 Line: Up to 80 characters 4 Line: Up to 60 characters
Dot matrix (horizontal × vertical)	1–2 Line: 5 × 5, 5 × 8 (or 5 × 7), 7 × 10 (or 9 × 7, 9 × 8) 1 Line: 12 × 16	1–4 Line: 5 × 5, 5 × 8 (or 5 × 7), 7 × 10 (or 9 × 7) 1–3 Line: 7 × 10 1–2 Line: 12 × 16 1 Line: 18 × 24, 24 × 32
Character height	2–10 mm / 0.08–0.39 inches	
Display & input device	Display: LCD (8.9 inch monochrome), backlight provided Input device: Touch panel, input sound provided	
Screen language 2 language selectable	English, German, French, Dutch, Italian, Spanish, Portuguese, Swedish, Danish, Greek, Russian, Czech, Polish, Arabic, Serbian, Turkish, Hungarian, Bulgarian, Catalan, other languages as option available	
Maximum print rate (character per second) (Font 5 × 5, space 1, 1line)	Up to 2,296	
Standard characters	Alphanumeric (A–Z, a–z, 0–9), symbols (27), space: Total 90	
Number of logos	Each dot matrix 128 patterns	
Print functions	Calendar, Counter, Message storage (150 messages), Font mixture, Password security, Bar codes (code39, ITF, NW-7, EAN-13/UPC-A, code128/EAN-128), Data Matrix 2D code (Alphabet: 49 characters, Numerals: 98 characters), Encoder with speed follow-up function, Traverse printing, etc.	
Barcode printing	code39, ITF, NW-7, EAN-13, EAN-8, UPC-A, UPC-E, code128/EAN-128	
Input signal	Print target detection, Printing stop, Traverse printing, Rotary encoder pulse	
Output signal	Print ready, Fault, Warning, Print in progress or Print complete, Online	
Data interface	RS-232C at baud rates selectable up to 38,4kbps	
General specifications		
Operating temperature range	0–45 °C / 32–113 °F (JP-K67, JP-K69 ink)	
Humidity range	30–90% RH (no condensation) Note: When humidity is more than 85% RH, please purge inside of Printhead by dry, clean air.	
Atmosphere	No corrosive gas	
Power supply (Automatic voltage selection)	AC 100–120/220–240V ± 10%, 50/60Hz, 150VA (AC Inlet)	
Approval	CE, UL, cUL, C-Tick, FCC, ICES	
Cabinet	Stainless Steel/IP55	
Printhead cable length	4 m / 13.1 ft	
Overall size (Width × Depth × Height)	400 × 290 × 515 mm / 15.7 × 11.4 × 20.3 inches	
Approximate weight	25 kg / 55 lbs	

## Options:

- Expansion or Addition of Print Characters
- Expansion or Addition of Message Storage Capacity
- External Message Recall and Counter Function
- Remote Communication Function
- Barcode Reader Message Recall Function
- Communication Print Buffer Function
- 90 Degree Printhead

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2. Hitachi continually improves products. The right, therefore, is reserved to alter the design and/or specifications without giving prior notice.

## Dimensions of console and print head



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Registration number: JACO-EC99J2009  
Registration date: July 22, 1996

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.



Registration number: JQA-QMA12087  
Registration date: April 1, 2005

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.