

# INK JET PRINTER

# HITACHI

Inspire the Next

PXR Series Continuous IJ Printer for Industrial Marking

# Hitachi IJ Printer PXR Series

The world's first IJ Printer with Large Color LCD Touch Panel (10.4 inch).



**User-friendly!**  
**Multi-functional!**  
**Small & Light!**



## More Reliability

- >>> Full protection against dust and water jets in harsh environment(IP55).
- >>> Combination of viscosity control and ink density control help to achieve stable drop formation and high quality printing.
- >>> Original ink circulation system provides more stable ink return.
- >>> Wide operating temperature 0—45°C(JP-K67).
- >>> The use of a PCMCIA card ensures safe data storage.



## Even higher print speed and print quality

- >>> PXR Series has high speed model PXR-H450W  
Maximum print rate is up to 3,173 (characters/s).  
[Nozzle size:55µm Font 5×5,space 1,1 line]

## Integration of high-tech and state-of-the-art design

- >>> Easy and quick operation by large color liquid crystal touch panel.  
Edit message screen can be set to ABC or QWERTY format.
- >>> Nozzle and gutter are automatically cleaned before stopping.
- >>> Small footprint and light.
- >>> Solvent evaporation is reduced by the ink return system which confines the mixing of air and ink.
- >>> Various printing functions are available.  
[Line mixture and font mixture, creation of user patterns, bar code printing, etc.]
- >>> Various coding functions are available.  
[Date / time automatic update, calendar substitution, basic numbering, etc.]
- >>> User-friendly coding functions are available.  
[Recall / registration, reciprocation printing, speed follow-up, etc.]
- >>> Help functions are available.  
[User help messages, log management function, password function, etc.]

## Easier maintenance

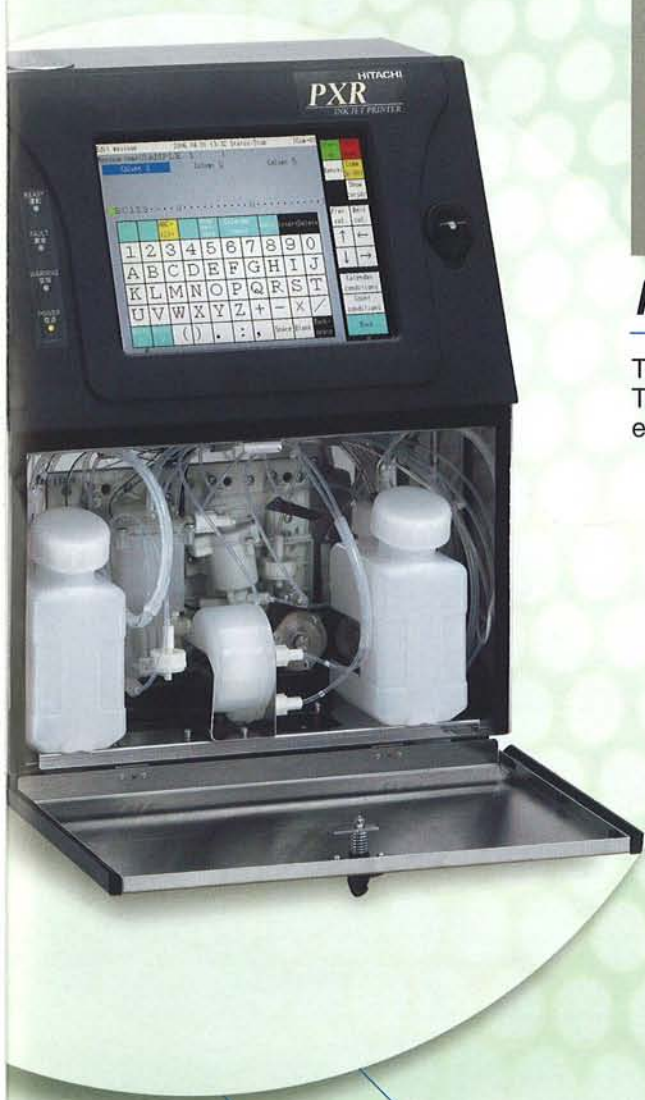
- >>> Easy replacement of ink filter by new
- >>> Even stronger printhead.



*Non contact printing !*

*Clear printing !*

*Flexible printing !*



### **More friendly**

TFT LCD is adopted for large color LCD touch panel (10.4 inch). The TFT LCD's good brightness & visibility make the operation easier and quick.



### **Various ink types and colors INKs**

- >>> Hitachi IJP can provide various ink types and colors to meet all customer requirements.
- >>> Ink colors : red, green, blue and yellow.
- >>> Special ink types : ethanol based ink, chrome-complex dye free ink, UV curable ink, alkali-soluble ink, UV readable ink, heat resistant ink, thermochromic ink, etc.

# Hitachi IJ Printer **PXR** Series

# Print Samples

| Model | Nozzle Size: 65 µm                                 |                          |  |  | Nozzle Size: 40 µm       |  |   |  |  |
|-------|--|--------------------------|--|--|--------------------------|--|---|--|--|
|       | PXR-D460W/PXR-D460WL                               |                          |  |  | PXR-D440W                |  |   |  |  |
| Font  | PXR-D260W/PXR-D260WL                               |                          |  |  | PXR-D240W                |  |   |  |  |
| 5x5   | 1 LINE<br>0123456789A<br>Up to 571 ft/min          | 2 LINE<br>01234<br>KLMNO | 3 LINE<br>012345<br>ABCDEF<br>NOPQRS             | 4 LINE<br>0123456789<br>ABCDEFGHIJ<br>KLMNOPQR | 1 LINE<br>0123456789ABCD | 2 LINE<br>0123456789KL<br>ABCDEFGHIJUV   | 3 LINE<br>0123456789<br>ABCDEFGHIJ<br>KLMNOPQRST                  | 4 LINE<br>0123456789<br>ABCDEFGHIJ<br>KLMNOPQRST<br>UVWXYZABCD |  |
|       | Up to 1138 ft/min                                  | Up to 571 ft/min         | Up to 190 ft/min                                 | Up to 95 ft/min                                | Up to 262 ft/min         | Up to 131 ft/min   | Up to 49 ft/min   | Up to 36 ft/min  |  |
| 5x7   | 1 LINE<br>01234567<br>Up to 541 ft/min             | 2 LINE<br>01234<br>KLMNO | 3 LINE<br>0123456<br>ABCDEF<br>NOPQRS            | 4 LINE<br>0123456789<br>ABCDEFGHIJ<br>KLMNOPQR | 1 LINE<br>0123456789     | 2 LINE<br>0123456789KL<br>ABCDEFGHIJUV   | 3 LINE<br>0123456789<br>ABCDEFGHIJ<br>KLMNOPQRST                  | 4 LINE<br>0123456789<br>ABCDEFGHIJ<br>KLMNOPQRST<br>UVWXYZABCD |  |
|       | Up to 1086 ft/min                                  | Up to 407 ft/min         | Up to 135 ft/min                                 | Up to 69 ft/min                                | Up to 269 ft/min         | Up to 92 ft/min  | Up to 33 ft/min   | Up to 26 ft/min  |  |
| 7x10  | 1 LINE<br>012345<br>Up to 420 ft/min               | 2 LINE<br>0123<br>KLMN   | 3 LINE<br>0123456789<br>ABCDEFGHIJ<br>KLMNOPQRST |  | 1 LINE<br>01234567       | 2 LINE<br>01234567<br>ABCDEFGH   | 3 LINE<br>0123456789012345<br>ABCDEFGHIJKLMNOP<br>KLMNOPQRSTUWXYZ |  |  |
|       | Up to 840 ft/min                                   | Up to 154 ft/min         | Up to 66 ft/min                                  |  | Up to 125 ft/min         | Up to 46 ft/min  | Up to 39 ft/min   |  |  |
| 12x16 | 0123456789A<br>Up to 98 ft/min                     |                          | 012<br>KLM                                       |  | 0123456789ABCDEFG        |  | 01234<br>ABCDE  |  |  |
|       | Up to 213 ft/min                                   |                          | Up to 56 ft/min                                  |  | Up to 55 ft/min          |  | Up to 26 ft/min   |  |  |
| 18x24 | 0123456789<br>Up to 62 ft/min                      |                          |  |  | 0123456789ABCDE          |  |   |  |  |
|       | Up to 75 ft/min                                    |                          |  |  | Up to 26 ft/min          |  |   |  |  |
| 24x32 | 0123456<br>Up to 46 ft/min                         |                          |  |  | 0123456789A              |  |   |  |  |
|       | Up to 72 ft/min                                    |                          |  |  | Up to 13 ft/min          |  |   |  |  |
| Model | Nozzle Size: 100 µm                                |                          |  |  | Model                    | Nozzle Size: 55 µm   |   |  |  |
| Font  | PXR-D410W  |                          |  |  | Font                     | PXR-H450W  |   |  |  |
| 5x5   | 0123456789ABCDEFGHIJKLMN<br>Up to 265 ft/min       |                          |  |  | 5x5                      | 1 LINE   | 0123456789ABCDEFGHIJKLMN<br>Up to 1150 ft/min                     |  |  |
|       | Up to 190 ft/min                                   |                          |  |  |                          | 2 LINE   | 0123456789ABCDEFGHIJKLMN<br>ABCDEFGHIJKLMN<br>NOPQRSTUVWXYZ       |  |  |
| 7x10  | Standard character<br>01234567<br>Up to 171 ft/min |                          | Bold character<br>01234567<br>Up to 171 ft/min   |  | 3 LINE                   | 0123456789ABCDEFGHIJKLMN<br>ABCDEFGHIJKLMN<br>NOPQRSTUVWXYZ<br>0123456789ABCDEFGHIJKLMN<br>Up to 473 ft/min                                    |   |  |  |
|       | Up to 138 ft/min                                   |                          | Up to 138 ft/min                                 |  | 1 LINE                   | 0123456789ABCDEFGHIJKLMN<br>Up to 893 ft/min   |   |  |  |
| 12x16 | 012<br>Up to 138 ft/min                            |                          | 012<br>Up to 138 ft/min                          |  | 2 LINE                   | 0123456789ABCDEFGHIJKLMN<br>ABCDEFGHIJKLMN<br>NOPQRSTUVWXYZ<br>Up to 503 ft/min  |   |  |  |
|       | Up to 33 ft/min                                    |                          | Up to 33 ft/min                                  |  | 3 LINE                   | 0123456789ABCDEFGHIJKLMN<br>ABCDEFGHIJKLMN<br>NOPQRSTUVWXYZ<br>0123456789ABCDEFGHIJKLMN<br>Up to 350 ft/min                                    |   |  |  |
| 18x24 | 012<br>Up to 33 ft/min                             |                          | 012<br>Up to 33 ft/min                           |  | 4 LINE                   | 0123456789ABCDEFGHIJKLMN<br>ABCDEFGHIJKLMN<br>NOPQRSTUVWXYZ<br>0123456789ABCDEFGHIJKLMN<br>ABCDEFGHIJKLMN<br>NOPQRSTUVWXYZ<br>Up to 266 ft/min |   |  |  |
|       | Up to 23 ft/min                                    |                          | Up to 23 ft/min                                  |  | 12x16                    | 1 LINE   | 0123456789<br>Up to 466 ft/min                                    |  |  |

\* The print samples have been produced under ideal conditions. Print quality depend printing speed.

## Standard Specifications:

| Printing specifications   |   |                                 |  |   |                                 |                                  |
|---|---|---------------------------------|--|---|---------------------------------|----------------------------------|
| Model   | PXR-D260W<br>PXR-D260WL   | PXR-D240W                       | PXR-H450W  | PXR-D460W<br>PXR-D460WL   | PXR-D440W                       | PXR-D410W                        |
| Nozzle size   | 65µm  | 40µm                            | 55µm   | 65µm  | 40µm                            | 100µm                            |
| 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<br>2 Line: Up to 120 characters  |                                 | 1 Line: Up to 240 characters 2 Line: Up to 120 characters<br>3 Line: Up to 80 characters 4 Line: Up to 60 characters                             |   |                                 |                                  |
| Dot matrix (horizontal x vertical)                                  | 1-2 Line:<br>5×5, 5×8 (or 5×7),<br>7×10 (or 9×7, 9×8)<br>1 Line:<br>12×16   |                                 | 1-4 Line: 5×8 (or 5×7)<br>1-3 Line: 5×5, 5×8 (or 5×7)<br>1-2 Line: 5×5, 5×8 (or 5×7)<br>7×10 (or 9×7, 9×8)<br>1 Line: 5×5, 5×8 (or 5×7)<br>12×16 | 1-4 Line:<br>5×5, 5×8 (or 5×7), 9×8 (or 9×7)<br>1-3 Line:<br>5×5, 5×8 (or 5×7), 7×10 (or 9×7, 9×8)<br>1-2 Line:<br>12×16,<br>1 Line: 18×24, 24×32 |                                 |                                  |
| Character height  | 0.08 - 0.39 inches /<br>2 - 10mm  | 0.04 - 0.12 inches /<br>1 - 3mm | 0.08 - 0.25 inches /<br>2 - 6.5mm  | 0.08 - 0.39 inches /<br>2 - 10mm  | 0.04 - 0.12 inches /<br>1 - 3mm | 0.12 - 0.59 inches /<br>3 - 15mm |
| Display & input device  | Display: TFT LCD (10.4 inch, color), backlight provided<br>Input Device: Touch panel, input sound provided  |                                 |  |   |                                 |                                  |
| Screen language<br>2 language selectable:                           | English, Chinese, Korean, Thai, Vietnamese, German, French, Dutch, Italian, Spanish, Portuguese, Swedish, Danish, Greek, Russian, Czech, Polish and Arabic available  |                                 |  |   |                                 |                                  |
| Maximum print rate (characters/ s)<br>(Font 5 x 5, space 1, 1 line) | Up to 2,296   | Up to 1,514                     | Up to 3,173  | Up to 2,296   | Up to 1,514                     | Up to 486                        |
| 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 (Alpha-numeric : 12 characters), Encoder function, Reciprocation printing, etc. |                                 |  |   |                                 |                                  |
| Input signal  | Print target detection, Printing stop, Reciprocative printing, Rotary encoder pulse   |                                 |  |   |                                 |                                  |
| Output signal   | Print ready, Fault, Warning, Print in progress or print end, On line  |                                 |  |   |                                 |                                  |
| Data interface  | RS-232C at baud rates selectable up to 19.2 kbps  |                                 |  |   |                                 |                                  |

| General specifications                     |  |                                       |   |
|--|--|---------------------------------------|---|
| Operating temperature range                | PXR-D260W/ 460W : 32-113 °F (JP-K67,K69 Ink)<br>PXR-D240W/ 440W/ 410W : 32-95 °F (JP-K67,K69 Ink) PXR-H450W : 32-104 °F (JP-K67 Ink) |                                       |   |
| Humidity range                             | 30-90% R.H. (no condensation) Note: When humidity is more than 85 %RH, please purge inside of print head by air.                     |                                       |   |
| Power supply (Automatic voltage selection) | AC 100-120 / 220-240V±10%<br>50/60 Hz 150 VA (AC Inlet)  | Print head cable length               | 13.1ft / 4 m                            |
| Approval                                   | CE, UL, cUL, C-Tick  | Overall size (width x depth x height) | 15.7×12.4×20.3 inches<br>400×315×515 mm |
| Cabinet                                    | Stainless Steel/ IP55  | Approximate weight                    | 55lbs / 25kg                            |

| Dimensions  |   |                                    |     |      |            |      |            |      |            |       |            |  |
|-------------|---|------------------------------------|-----|------|------------|------|------------|------|------------|-------|------------|--|
| Console     | Printhead : PXR - ****W   | 90 Degree Printhead : PXR - *D60WL |     |      |            |      |            |      |            |       |            |  |
|             | <table border="1"> <thead> <tr> <th>Nozzle size</th> <th>(L)</th> </tr> </thead> <tbody> <tr> <td>65µm</td> <td>9.1 inches</td> </tr> <tr> <td>55µm</td> <td>9.1 inches</td> </tr> <tr> <td>40µm</td> <td>8.5 inches</td> </tr> <tr> <td>110µm</td> <td>9.3 inches</td> </tr> </tbody> </table> | Nozzle size                        | (L) | 65µm | 9.1 inches | 55µm | 9.1 inches | 40µm | 8.5 inches | 110µm | 9.3 inches |  |
| Nozzle size | (L)   |                                    |     |      |            |      |            |      |            |       |            |  |
| 65µm        | 9.1 inches  |                                    |     |      |            |      |            |      |            |       |            |  |
| 55µm        | 9.1 inches  |                                    |     |      |            |      |            |      |            |       |            |  |
| 40µm        | 8.5 inches  |                                    |     |      |            |      |            |      |            |       |            |  |
| 110µm       | 9.3 inches  |                                    |     |      |            |      |            |      |            |       |            |  |

\*1.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.  
\*2.Hitachi continually improves products. The right, therefore, is reserved to alter the design and/or specifications without giving prior notice.

For further information, please contact your nearest sales representative.

ISO 14001



ISO 9001

