

# UX Twin Nozzle Series

*Inkjet Printer*

**HITACHI**  
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# ***SPEED & QUALITY***

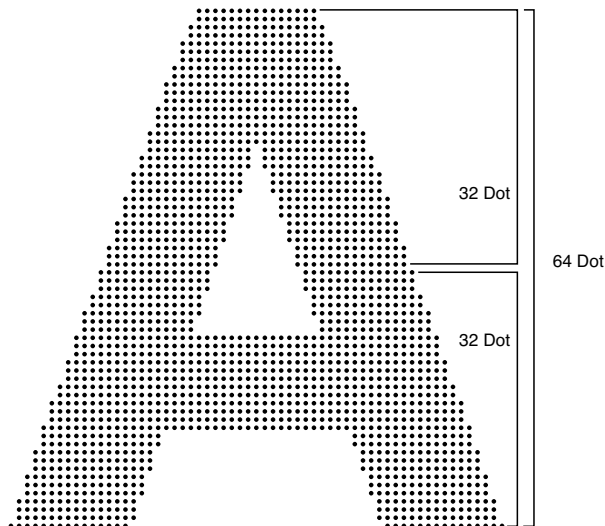
Hitachi  
**UX**  
SERIES

Hitachi's UX Series continuous inkjet printers represent the pinnacle of innovation in marking and coding technology, all while showcasing Hitachi's reputation for Reliability, Efficiency, and Ease of Use.

### Sample photos



### Versatile 64-Dot



# Twin Specific Features



## Flexible 8-Line Print

The UX twin print head now has the capability of producing 8 lines of text by combining two individual nozzles into one, compact design. In addition, by utilizing Hitachi's first on the market "interlaced" print control technique, multiple line messages are printed clearly and legibly, further reducing coding errors due to misprint.



## Versatile 64-Dot

Hitachi's innovative design now produces 64 vertical dots of print, resulting in large, bold characters. This makes the UX twin nozzle printer ideally suited to mark company logos, UL marks, or any other pattern previously unachievable with traditional print heads.



## Higher Print Speeds

Having two nozzles on tap dramatically increases the speed of multi-line printing. Traditionally, single nozzle print heads become taxed very quickly when printing multiple lines of print, especially at speed. By sharing the work load between two separate nozzles, this effect is greatly reduced.



## Character Stitch Capability

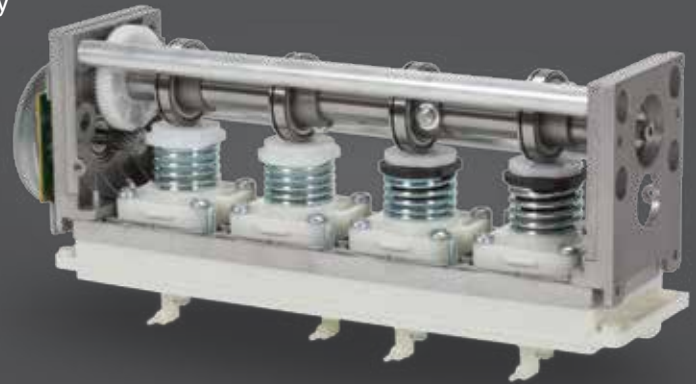
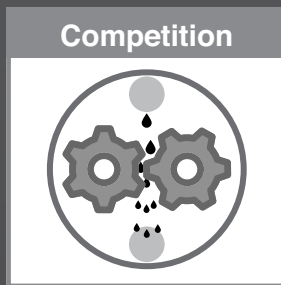
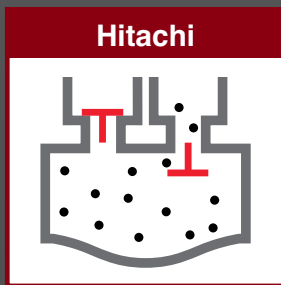
A unique option in the new twin-nozzle printer is the ability to stitch both nozzles together. This results in characters that are bigger and bolder than ever, compared to those printed by individual nozzles. This is particularly useful when character recognition is needed at a distance from the product.



# THE HEART OF RELIABILITY

## Increased Ink Integrity

Unlike a gear pump, a diaphragm pump does not shear the ink passing through it. Ink shearing results in lower viscosity and can adversely affect print quality. Hitachi diaphragm pumps provide a consistent supply of ink to the print head.



## Designed & Built by Hitachi

The diaphragm pump is the heart of each Hitachi printer. For this reason, Hitachi doesn't use an off-the-shelf product. Each pump is designed and built by Hitachi to the highest standards.



## Heavy on Quality

Hitachi diaphragm pumps are one of the heaviest components in each printer. This weight is due to the high-quality components used in the manufacturing of each pump. Quality is never compromised. You create superior products. You should have a partner who does too.



## Quad Chamber Design

Each pump is designed with four chambers allowing pump load to be distributed. Subsequently, the life span of each printer is significantly improved over single chamber pump designs.

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## Individual Pump Replacement

By allowing each ultra-reliable pump to be replaced individually, the Total Cost of Ownership for a UX Series printer is minimized.



# UX Specific Features



## Low Fluid Consumption

Makeup evaporation is suppressed by using a pulsating system which sucks the pulsed ink with the best suited flow rate and reduces the air capacity contacting with the ink, thus achieving industry-leading levels of makeup consumption and increasing your bottom line.

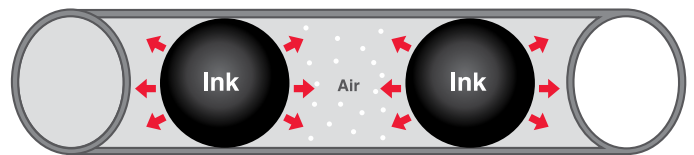


## Traditional Fluid Recovery Systems

Ink passes through a channel of air increasing the evaporation rate and, consequently, fluid makeup consumption.

\* As compared to Hitachi current models with 1067K ink at 20°C.  
About 30% reduction for UX-B and UX-D.

A large factor in determining fluid consumption is the amount of fluid exposure to the outside environment. Hitachi designs their pump system in such a way that minimizes the exposure. Hitachi's ink recovery system pulsates while being transported back to the ink tank. This technique reduces the surface area-or-exposure area of ink, thus reducing the evaporation rate and increasing your bottom line.



## Hitachi's Pulse Recovery System

Ink is recovered using a pulsating system which reduces the evaporation rate and makeup consumption, thus increasing your bottom line.



## Easy to Use Interface

The display of our twin-nozzle model utilizes the same, easy-to-use touchscreen incorporated in other UX models. A large 10.4" display, and intuitive parameter illustrations reduce the complexity typically found in traditional small screen printers. In addition, messages can be easily changed in one screen, with a live WYSIWYG display.



## Low Total Cost of Operation

Hitachi's design facilitates longevity. Each component of our print-head can be replaced individually, thus reducing the need to purchase costly sub-assemblies. In addition, our preventative maintenance items are all replaceable individually as well, further reducing the unnecessary replacement of complete ink circuits or complete ink cores.



## Easy Drain Cartridges

Hitachi's ink cartridges can be easily changed without stopping production. In addition, the unique design facilitates the complete evacuation of fluids, allowing users to take advantage of fluids right to the last drop. Empty cartridges are sealed after removal, eliminating the potential release of hazardous solvents.



## Designed for Harsh Environments

The stainless steel cabinet offers IP-55 protection and allows for wash-down and dust protection. The UX Series Twin Nozzle's protection is the ideal choice for a variety of printing needs.

## Standard Print Samples

High-speed printing	2 LINE	Nozzle 2 01234567	Nozzle 1 ABCDEFGH	180m/min Font: 5x7	2 LINE	Nozzle 2 01234567	Nozzle 1 ABCDEFGH	200m/min Font: 5x7
	2 LINE	Nozzle 2 01234567890	Nozzle 1 ABCDEFGHIJK	Font: 7x10	3 LINE	Nozzle 2 01234567890	Nozzle 1 ABCDEFGHIJK TWINNOZZLE8	Font: 7x10
Multi-line printing (4line, 8line)	4 LINE	Nozzle 2 (2line English) 05/08/18 ABCD 05/02/19 1234	Nozzle1 (2line Arabic) ٠٥/٠٨/١٨ ABCD ٠٥/٠٢/١٩ ١٢٣٤	Font: 5x8	8 LINE	Nozzle 2 (4line) SELL BY AUG 8 MANUFACTURED BY HIES 11:37:17 BEST BY 05 FEB<FEB>2020 LOT 8929 0417 4557 HITACHI INDUSTRIAL EQUIPMENT MADE IN JAPAN TEL: +81-4345-6077 IOS 9001	Nozzle1 (4line)	Font: 5x7
Dot mixture	Nozzle 2	ABCD	BEST BY HIES UX	017H04	Nozzle 1	05 FEB<FEB>2019	S28N02	Font: 5x7 12x16
	Nozzle 2	UXTWIN	TOKYO EXPO PACKAGING	TECHNICAL AREA CODING	860	Nozzle 1	HITACHI INDUSTRIAL EQUIPMENT SYSTEMS	Font: 5x7 12x16
	Nozzle 2	UXTWIN	TOKYO EXPO PACKAGING	TECHNICAL AREA CODING	860	Nozzle 1	HITACHI INDUSTRIAL EQUIPMENT SYSTEMS	Font: 5x7 12x16
	Nozzle 2	UXTWIN	TOKYO EXPO PACKAGING	TECHNICAL AREA CODING	860	Nozzle 1	HITACHI INDUSTRIAL EQUIPMENT SYSTEMS	Font: 5x7 12x16
Logos <sup>*1</sup>	Nozzle 2	CE	Nozzle 2	JIS	Nozzle 2	A	Nozzle 2	Image of a tree and mountain
	Nozzle 1	CE	Nozzle 1	JIS	Nozzle 1	A	Nozzle 1	Image of a tree and mountain
Bold characters	Nozzle 2	5x7 BOLD 3 LINE B	Nozzle 1	5x7 BOLD 3 LINE B	Nozzle 2	5x7 BOLD 3 LINE B	Nozzle 1	5x7 BOLD 3 LINE B
	Nozzle 2	5x7 BOLD 3 LINE B	Nozzle 1	5x7 BOLD 3 LINE B	Nozzle 2	5x7 BOLD 3 LINE B	Nozzle 1	5x7 BOLD 3 LINE B
Chimney characters	Nozzle 2	5x7 BOLD 3 LINE B	Nozzle 1	5x7 BOLD 3 LINE B	Nozzle 2	5x7 BOLD 3 LINE B	Nozzle 1	5x7 BOLD 3 LINE B
	Nozzle 2	5x7 BOLD 3 LINE B	Nozzle 1	5x7 BOLD 3 LINE B	Nozzle 2	5x7 BOLD 3 LINE B	Nozzle 1	5x7 BOLD 3 LINE B
Inverted characters (DIN printing)	Nozzle 2	12X16 DIN PRINT	Nozzle 1	12X16 DIN PRINT	Nozzle 2	12X16 DIN PRINT	Nozzle 1	12X16 DIN PRINT
	Nozzle 2	12X16 DIN PRINT	Nozzle 1	12X16 DIN PRINT	Nozzle 2	12X16 DIN PRINT	Nozzle 1	12X16 DIN PRINT
Barcodes	Nozzle 2	0 1 2 3 4 5 6	Nozzle 1	0 1 2 3 4 5 6	Nozzle 2	6 11942 03936 4	Nozzle 1	4400 4" X 10"
	Nozzle 2	0 1 2 3 4 5 6	Nozzle 1	0 1 2 3 4 5 6	Nozzle 2	6 11942 03936 4	Nozzle 1	4400 4" X 10"
QR codes	Nozzle 2	Our Web Here	Nozzle 1	Our Web Here	Nozzle 2	Our Web Here	Nozzle 1	Our Web Here
	Nozzle 2	Our Web Here	Nozzle 1	Our Web Here	Nozzle 2	Our Web Here	Nozzle 1	Our Web Here
Datamatrix	Nozzle 2	HITACHI	Nozzle 1	HITACHI	Nozzle 2	Our Web Here	Nozzle 1	Our Web Here
	Nozzle 2	HITACHI	Nozzle 1	HITACHI	Nozzle 2	Our Web Here	Nozzle 1	Our Web Here

\*1 When printing logos, please make sure the image quality is acceptable to the association or the organization.

\*2 This printing will be made with use of graphics data [dot-pattern] but not with 2D code function. This graphics data [dot-pattern] should be prepared by the users. Read rate will vary depending on the print condition.

## Specifications

Item		Model
		UX-D890W
Nozzle Size		65µm
Max. # of Print Lines		Up to 8 lines
Max. # of Print Characters		Up to 1,000 characters
Font (horizontal x vertical)	4 x 5	✓
	5 x 5	✓
	5 x 7(8), 9 x 7(8)	✓
	7 x 10	✓
	11 x 11	✓
	10 x 12	✓
	12 x 16	✓
	18 x 24	✓
	24 x 32	✓
	30 x 40	✓ <sup>*1</sup>
	36 x 48	✓ <sup>*1</sup>
	48 x 64	✓ <sup>*1</sup>
Character Height		2 - 21 mm
Display & Input Device		WYSIWYG Design Display: TFT LCD (10.4" color), backlight provided Input Device: Touch Panel, Input Sound Provided
Screen Language (2 languages selectable)		English, Chinese, Korean, Thai, Vietnamese, German, French, Dutch, Italian, Spanish, Portuguese, Swedish, Danish, Greek, Russian, Czech, Polish, Arabic, Serbian, Turkish, Hungarian, Bulgarian, Catalan, Romanian, Finnish, Norwegian, Slovenian
Max. Print Rate (Characters per second) (Font 5x5, space 1, 1 Line)		Up to 2,296 (Option: Up to 2,563) <sup>*2</sup>
Standard Characters		Alphanumeric (A-Z, a-z, 0-9), Symbols (27) and Space: Total 90
User Patterns		200 patterns each for dot matrix (50 patterns for 30x40, 36x48, 48x64 fonts)
Print Function		Calendar, Count, Font mixture
Barcode Printing		code39, ITF, NW-7, EAN-13, EAN-8, UPC-A, UPC-E, code128/EAN-128, GS-1 DataBar
2D Code Printing		Data Matrix (Alphabet: 49 characters/Numerals: 98 characters), QR, Micro QR code
Message Storage Capacity		Up to 2,000 messages (depends on data content)
Input Signal		Print target detection, Printing stop, Rotary encoder pulse, Reciprocatve printing, Remote control (Run, Stop, High-voltage ON / OFF, Reset), (NPN / PNP Selectable)
Output Signal		Print in progress or Print complete, Online (NPN / PNP Selectable), Print ready, Fault, Warning (NPN Only)
Data Interface		RS-232C at baud rates selectable up to 115,200bps
Ethernet		IEEE802.3, 100BASE-T
External Memory		USB for user data storage
Print-head Cable Length/Angle		4m (in-line/90 degrees)
Operating Temperature Range		0-45°C (1067K Ink) <sup>*2</sup>
Operating Humidity Range		30-90% RH (no condensation)
Power Supply (Automatic Voltage Selection)		AC100-120/220-240V±10% 50/60Hz 150VA
Approval		CE, UL, cUL, RCM, FCC, ICES
Dimensions (W x D x H)		400 x 395 x 527 mm
International Protection		IP55
Approximate Weight		34kg

<sup>\*1</sup> The character is printed with the composite character made by the user patterns for both nozzles 1 and 2.

<sup>\*2</sup> Ink types and temperatures are limited.



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## Hitachi Industrial Equipment

Hitachi Industrial Equipment Systems Co., Ltd.  
Hitachi America, Ltd.

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

The Marking Systems and Hoist Systems Division (Taga Division) of Hitachi Industrial Equipment Systems Co., Ltd. obtained international standard ISO 9001 certification for the quality assurance of the Ink Jet Printer contained in this brochure.