



PALCO

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HITACHI
Inspire the Next

Ink Jet Printer

UX Series

Twin nozzle model



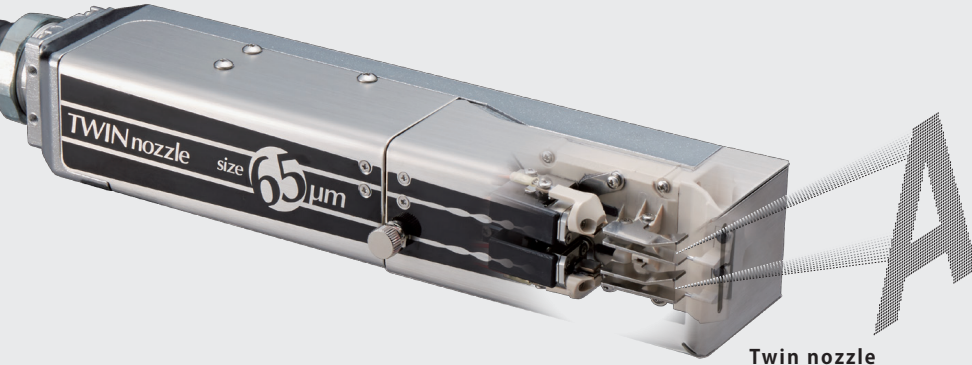
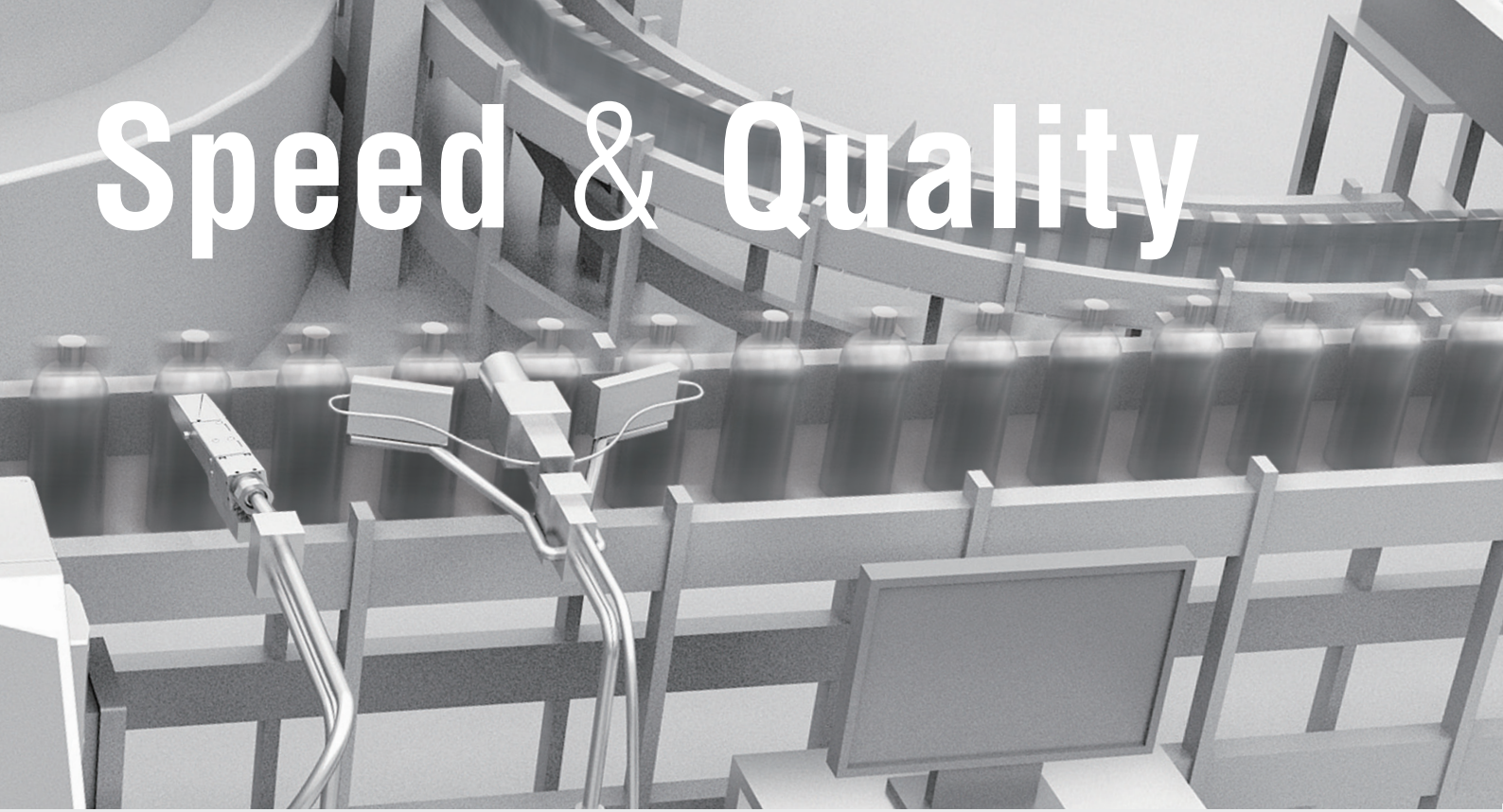
THE WORLDWIDE



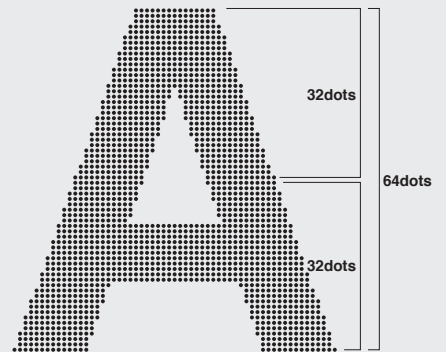
Twin nozzle

<https://www.hitachi-ies.co.jp/english/products/ijp>

Speed & Quality



Twin nozzle

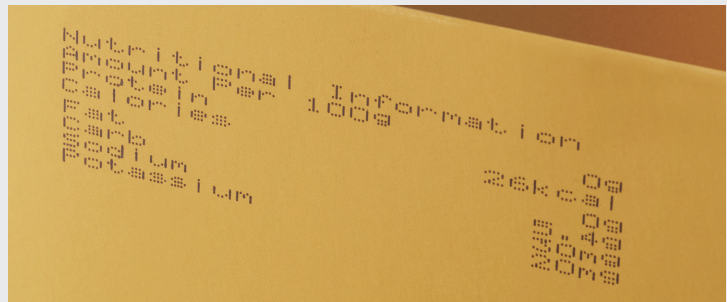


* Represented by an image.



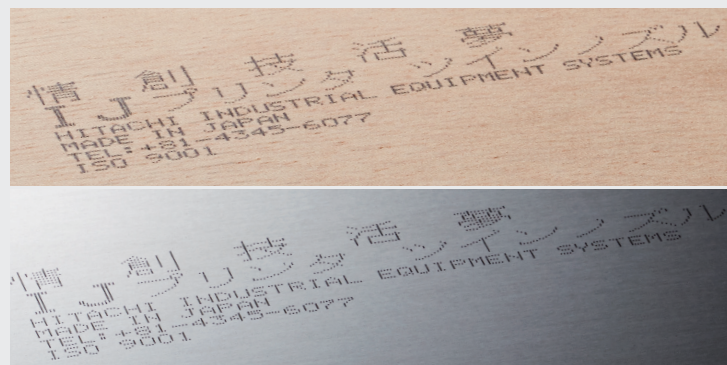
Flexible 8-Line Print

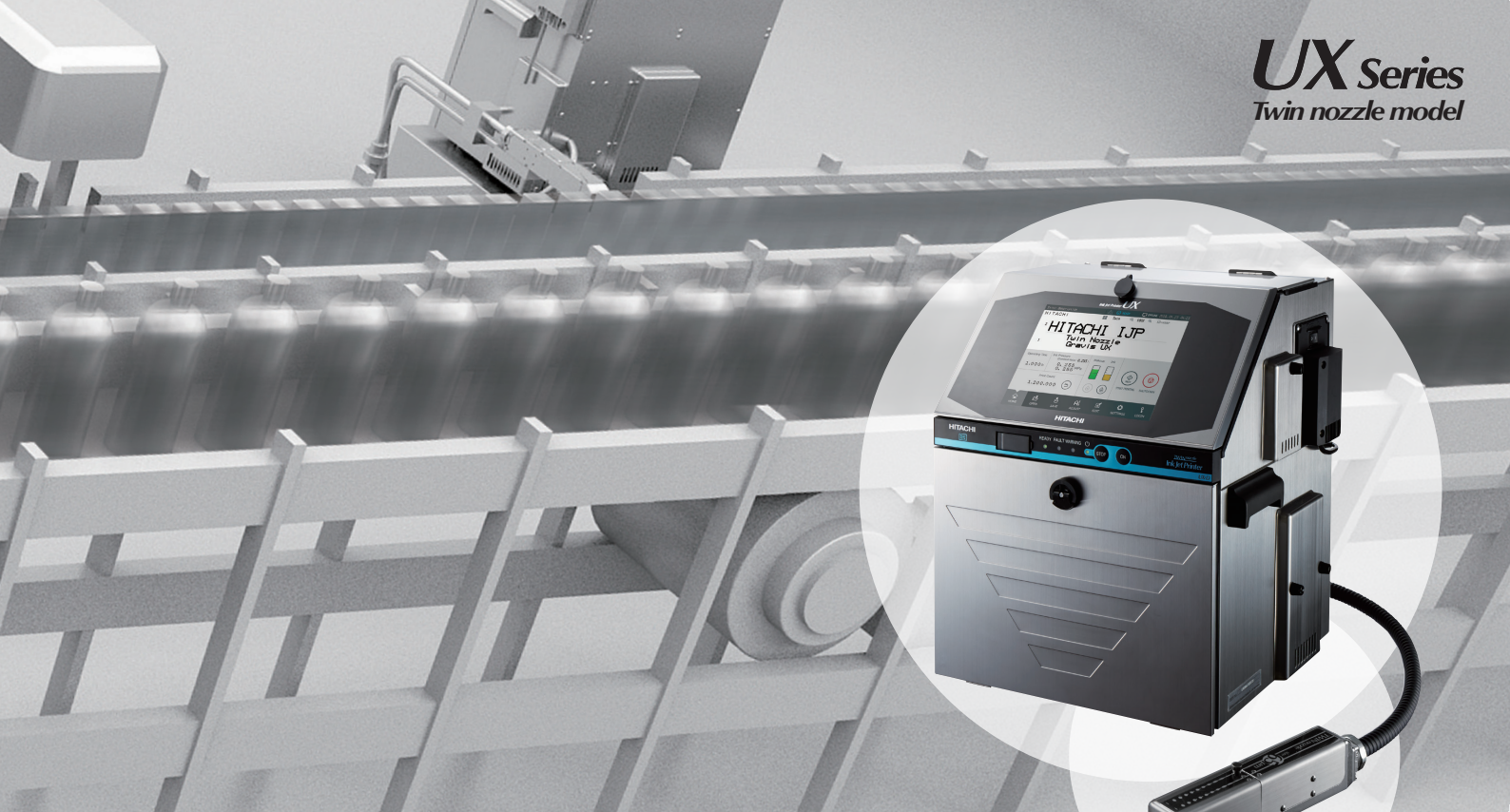
Our printhead now has the capability of producing 8 lines of text by utilizing two individual nozzles in one, compact design. In addition, by utilizing Hitachi's original "interlaced" print control technique, multiple line messages are printed clearly and legibly, further reducing coding errors due to misprint.



Versatile 64-Dots

Our innovative design can now produce 64 vertical dots of print resulting in large, bold characters. This makes our twin nozzle printer ideally suited to mark company logos or any other pattern previously unachievable with traditional print heads.





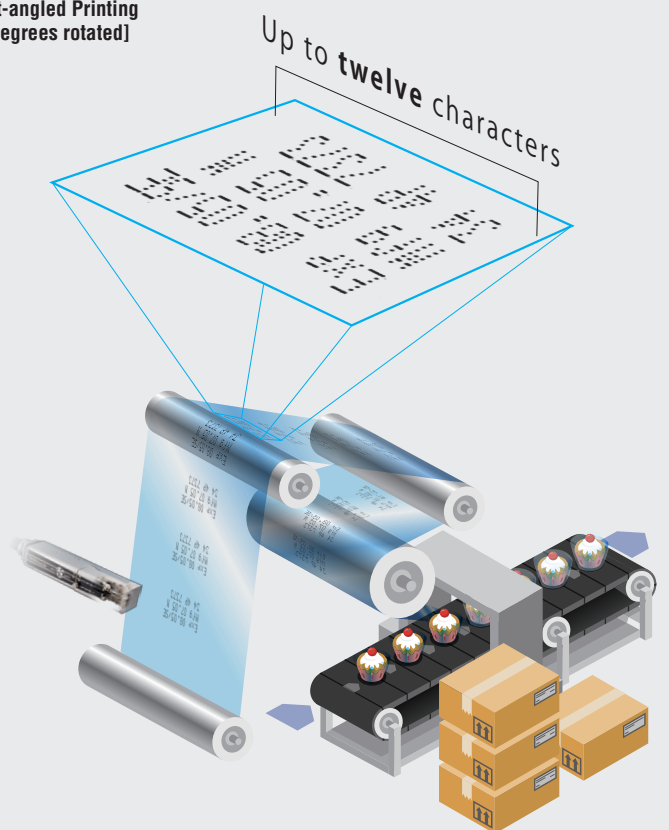
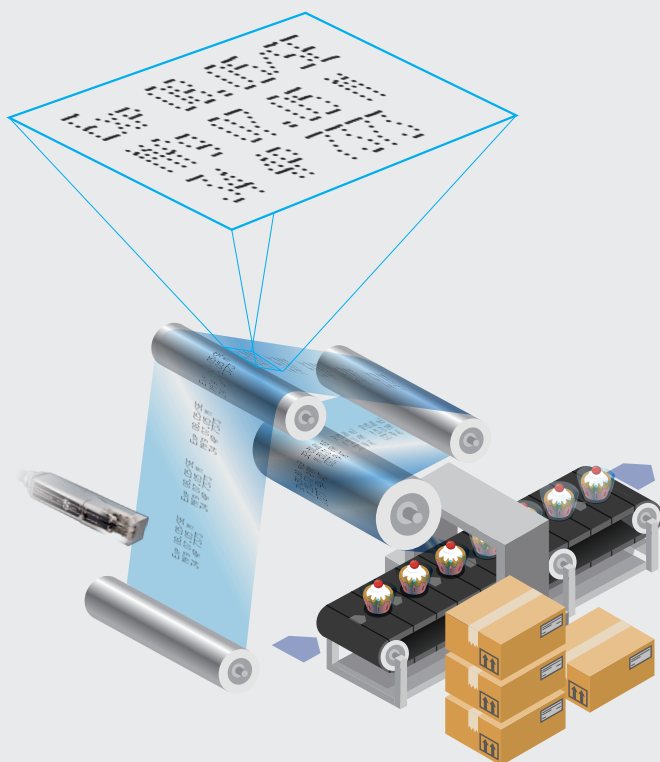
**Right-angled Printing
[90 degrees rotated]**

Hitachi UX Twin Nozzle model enables to print up to twelve characters at right angles*1 to the direction of movement with consideration for design or position of printing objects and thus extending the possibility of print contents and meeting various customer's needs.

*1 Depends on font size.
* Represented by an image.

General printing to the direction of movement

Right-angled Printing [90 degrees rotated]



Speed & Quality



Higher print speeds

Having two nozzles on tap dramatically increases the speed of multi-line printing. Traditional, 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.



Print sample of drink cartons



Print sample of PET bottle

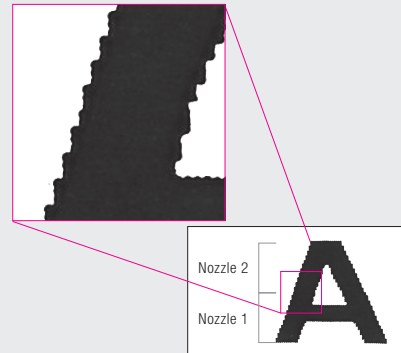


Print sample of cans



Character stitch capability

In case of printing composite characters by two nozzles, the fine-tuning function provides smooth connection of dots at a print position, resulting in the high-quality printing.



Nozzle-Space Alignment Function*1

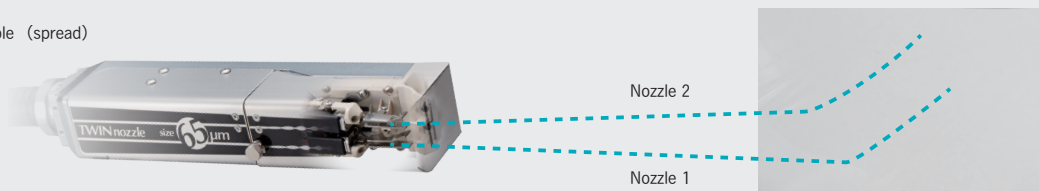
By using this alignment function, our twin nozzle can print the characters without reducing the print speed even when adjusting the space between nozzles and thus can meet various printing needs.

*1 Print quality will vary before and after this function activated.

■ Application sample (close up)



■ Application sample (spread)



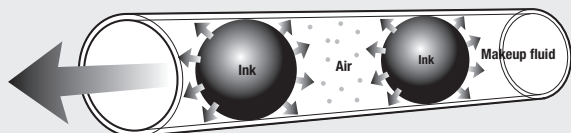
Usability & Reliability



Low fluid consumption

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 this exposure. Our ink recovery system pulsates ink with best-suited air flow rate 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 your bottom line.

"Makeup fluid consumption reduction system"



Reduction of makeup fluid consumption UX-D860W/S



About **30%** reduction *1

*1 As compared to two units of Hitachi current PXR and RX models used with 1067K ink at 20°C.



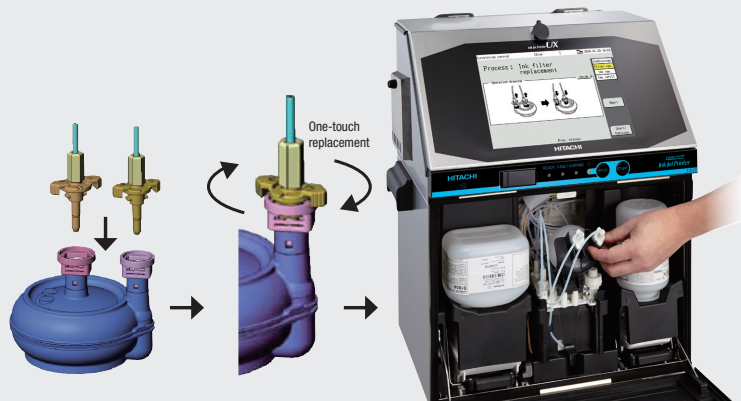
Easy to Use Interface

The display of our Twin-nozzle model utilizes the same, easy-to-use touch panel 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, the messages can be easily changed in one screen, with a live WYSISYG display.



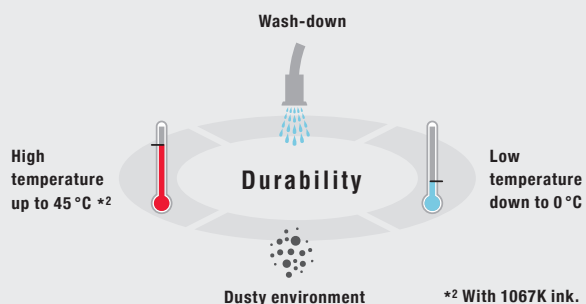
Low total cost of operation

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.




Designed for harsh environments




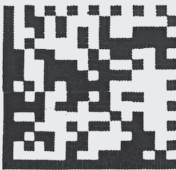

The stainless steel cabinet offers IP55 protection and allows for wash-down and dust protection. The UX Series Twin nozzle's protection is the ideal choice for a variety of printing needs.



Standard print samples (Approx. full scale)

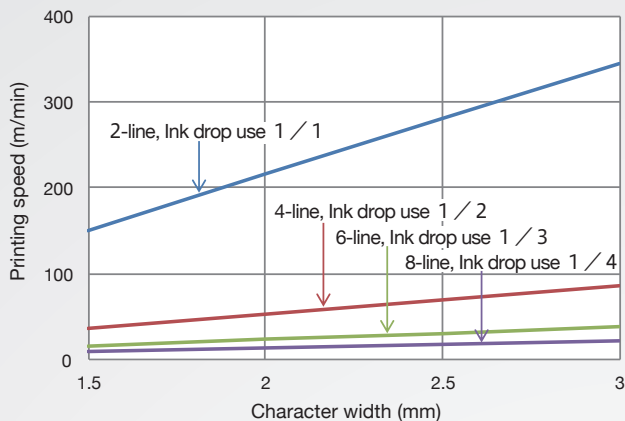
Printing specification	UX-D860W/S				
High-speed printing	2LINE	160m/min Font: 5x7	Nozzle 2 [01234567	200m/min Font: 5x7	Nozzle 2 [01234567
		Nozzle 1 [ABCDEFGH	Nozzle 1 [ABCDEFGH		
2, 3-line printing	2LINE	Font: 7x10	Nozzle 2 [01234567890	Nozzle 1 [ABCDEFGHIJK	
		3LINE	Font: 7x10	Nozzle 2 [01234567890	Nozzle 1 [ABCDEFGHIJK TWINNOZZLEB
Multi-line printing (4line, 8line)	4LINE	Font: 5x8	Nozzle 2 (2line English) [05/08/18 ABCD 05/02/19 1234	Nozzle 1 (2line Arabic) [+0/+6/1A ABCD +0/+C/19 1C7E	
		8LINE	Font: 5x7	Nozzle 2 (4line) [SELL BY AUG 8 MANUFACTURED BY HIES 11:37:17 BEST BY 05 FEB<FEB>2020 LOV 8929 0417 6557	Nozzle 1 (4line) [HITACHI INDUSTRIAL EQUIPMENT SYSTEMS MADE IN JAPAN TEL: +81-4345-6077 IOS 9001
Dot mixture	Nozzle 2	Font: 5x7 12x16	[ABCD BEST BY HIES UX 017M04 S28M02	Nozzle 1 [05 FEB<FEB>2019	
		Font: 5x7 12x16	Nozzle 2 [UX TWIN TOKYO EXPO PACKAGING TECHNICAL AREA CODING 860	Nozzle 1 [HITACHI INDUSTRIAL EQUIPMENT SYSTEMS	
Logos **	Nozzle 2	40 dots	[CE	48 dots	[JIS
		64 dots	[A	64 dots	[

** In case of printing the logos, please make sure if its image quality is acceptable to the association or the organization.

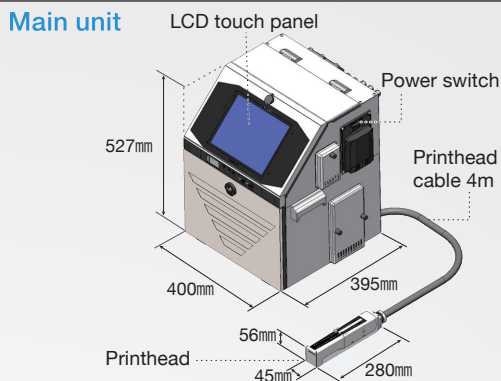
Printing specification	UX-D860W/S			
Bold characters	Font: 5x7	Nozzle 2 [5x7 BOLD 2 LINE B 5x7 BOLD 2 LINE B Nozzle 1 [5x7 BOLD 2 LINE B 5x7 BOLD 2 LINE B		
	Font: 7x5	Nozzle 2 [7x5 CHIMNEY-PRINT Nozzle 1 [7x5 CHIMNEY-PRINT	Right-angled Printing [90 degrees rotated]	Font: 7x5
Chimney characters	Font: 7x5	Nozzle 2 (4line) [7x5 CHIMNEY-PRINT 7x5 CHIMNEY-PRINT 7x5 CHIMNEY-PRINT 7x5 CHIMNEY-PRINT Nozzle 1 (4line) [7x5 CHIMNEY-PRINT 7x5 CHIMNEY-PRINT 7x5 CHIMNEY-PRINT 7x5 CHIMNEY-PRINT		Nozzle 2 (6line) [05/19/26 095 Nozzle 1 (6line) [04/17/25 123 37 4P 1176
	Barcodes	Font: 18x24 5x7	Nozzle 2 [ Nozzle 1 [0 1 2 3 4 5 6	Font: 24x32 5x7
QR codes		Font: 29x29 5x7	Nozzle 2 [ Nozzle 1 [Our Web Here	Font: 25x25 5x7
	Datamatrix	Font: 16x16 5x7	Nozzle 2 [ Nozzle 1 [HITACHI	Font: 16x36 5x7
			64 dots *2	Nozzle 2 [ Nozzle 1 [

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

Nozzle size: 65µm; Font: 5x8; Ink type: 1067K



Main unit / Printhead dimension



*Main unit dimensions do not include any projections.

Specification

Item	Model	
	UX-D860W/S	
Nozzle size	65µm	
Maximum number of print lines	Up to 8 lines	
Maximum number of print characters	Up to 1,000 characters (Depends on print lines)	
Font (Horizontal x Vertical)	4 x 5	✓
	5 x 5	✓
	5 x 7(8), 9 x 7(8)	✓
	7 x 10	✓
	11 x 11	✓ (Chinese only)
	10 x 12	✓
	12 x 16	✓
	18 x 24	✓
	24 x 32	✓
30 x 40	✓	
36 x 48	✓	
48 x 64	✓	
Character height	2 - 21 mm (Depends on print distance, print speed and operating temperature)	
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	
Maximum print rate	Up to 4,592 (Characters per second) (Font 5x5, space 1, 2 line)	
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 functions	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 code, 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, Reciprocal 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 (Modbus communication)	IEEE802.3, 100BASE-T	
External memory	USB for user data storage	
Printhead cable length / angle	4m (in-line/90 degrees)	
Operating temperature range	0-45°C (1067K Ink)	
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 (Width x Depth X Height)	400 x 395 x 527 mm	
International protection	IP55 (Printhead is excluded)	
Approximate weight	34kg	

Hitachi Industrial Equipment Systems Co., Ltd.

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JQA-QMA12087

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

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