HITACHI
Inspire the Next

UX SERIES

Continuous Inkjet Printers

Hitachi UX SERIES

The Hitachi UX Series continuous inkjet printers represent **CONSTANT IMPROVEMENT IN MARKING AND CODING TECHNOLOGY,** all while furthering the Hitachi reputation for reliable, efficient, and easy-to-use products.

EFFICIENT INK RECOVERY

INTUITIVE PRINT CONTROL

POUR-IN INK CAPABILITY

DURABLE PRINTHEAD

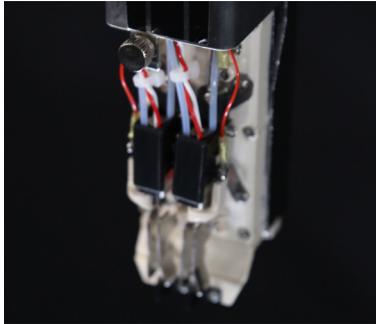**WORRY-FREE INTEGRATION**

RELIABLE CIRCULATION SYSTEM

SIMPLE FLUID MANAGEMENT

The Hitachi UX Series is the printer of choice for non-contact printing needs. The UX Series improves the existing, reliable Hitachi continuous inkjet products and is versatile enough to provide industry-leading marking on food and beverage products, health and beauty products and a variety of containers from lip balm tubes to bag printing and oversized PVC piping.
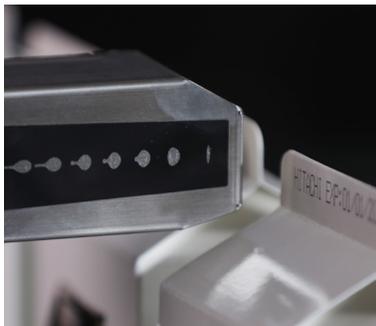
NEW VERSATILE, DURABLE PRINTHEAD

High-Quality Components.

The UX Series printhead is built to last, keeping your marking and coding up and running. Open up the printhead and you'll see high-quality Hitachi parts that stand up to the harsh environments your printer runs in - reducing your downtime and increasing your printer's efficiency.

Durable NI-CR Plating.

The UX Series printhead is ready to work wherever you need it most. The UX Series features a new Nickel-Chrome finish, giving it exceptional corrosion resistance and increasing the printhead's lifespan in demanding environments including wash-downs and exposure to caustic chemicals.

Versatile Tapered Printhead.

Getting the printhead as close as possible to the product it is marking is the name of the game in non-contact printing and the UX series' tapered printhead design allows it to get millimeters away from products - helping it achieve a higher quality print than ever before.

Flexible Six-line Print.

A single UX printhead can now print up to six lines of text by employing an innovative print control system. Also available in the UX Series is Hitachi's industry-first interlaced drop control system, resulting in the highest quality code available regardless of print height.

SIMPLE FLUID MANAGEMENT

The Hitachi UX Series comes with two fluid management system styles:

Cartridge or pour-in style so that you can customize your inkjet printer to fit your business' needs.

Mistake-free disposal.
This system makes it easy to replace ink, by allowing users to simply replace the entire ink cartridge, making for an efficient and mistake-free process. Use RFID recognition to scan each bottle of ink and makeup solution to reduce errors as well as dreaded downtime for your printer.

Tool-less filter replacement.
Ink filters can be replaced without the use of tools or a technician, resulting in virtually zero downtime for routine maintenance. The UX Series provides the lowest total cost of operation on the market because it prevents unnecessary shutdowns.

Freedom to pour.
This method offers more flexibility for your business and ease of change for your operators. The pour-in method is simple and intuitive, requiring less operator training. Plus, the pour-in system allows your inkjet printer to handle a larger variety of Hitachi-recommended ink products - making your continuous inkjet system more flexible to fit your business' needs.

Simple, economical disposal.
Ink and makeup cartridges are good to the last drop, and drain fully into their respective reservoirs. Complete fluid evacuation allows ink and makeup containers to be disposed of easily instead of incurring costly hazardous disposal expenses.

Stay informed.
On-screen icons provide simple, visual feedback to an operator. Ink and makeup solution level gauges show the current fluid level and indicate when it's time to replace ink. This allows for more efficient ink usage, reduces waste and further contributes to cost reduction.

Choose your ink.
Hitachi offers a variety of pour-in inks giving users an option to use a more environmentally-friendly, less wasteful option than comparable inkjet printers who simply use the cartridge replacement method.

An intuitive interface.
A 10.4-inch TFT LCD touch-panel screen provides a wide, easy-to-see viewing angle and quick-to-understand operation. In addition, when changing print messages, a preview function allows the operator to verify what the message will look like to help avoid printing errors before they happen.

Keep and collect your message.
Messages can be easily backed up onto a USB flash drive for convenient transferring to multiple printers.

Get troubleshooting help.
The UX Series features an integrated, easy to access troubleshooting guide, helping operators easily find answers to common issues and reducing downtime due to simple problems.

WORRY-FREE INTEGRATION

The Hitachi UX Series printers can operate in high and low temperature as well as dusty environments, so you can place them close to the action - no matter where the action is.

Hitachi UX Dynamic

IP-65 rated. The UX Dynamic model printer is IP-65, so it can be integrated into a variety of production environments without modifying current production processes such as wash-down procedures. The UX Dynamic can operate in temperatures as low as 0° C (32° F) and up to temperatures as high as 50° C (122° F) which means that the UX Dynamic model is able to tolerate marking in a wide variety of environments - making it an ideal choice for most facilities.

Accessories

Hitachi offers a wide variety of high-quality accessories for its UX Series, including brackets and mounting options to help integrate your UX Series continuous inkjet printer into your existing work environment seamlessly.

APPLICATIONS FOR YOUR BUSINESS

The Hitachi UX Series is the clear leader for your non-contact printing needs.

The UX Series improves on existing, Hitachi continuous inkjet products and is versatile enough to provide industry leading marking no matter what industry you work in.

Ink R&D.

Hitachi invested in a dedicated ink R&D facility to deliver specialized, application-specific inks to customers quickly. Hitachi inks are developed and tested to meet customers' specific requirements in a state-of-the art facility located in Charlotte, North Carolina.

Learn how companies like yours are benefiting from Hitachi innovation:

BAKER CHEESE:

THE CHALLENGE: When you run as much product as Baker Cheese does, consistency and reliability become essential in keeping the sticks of string cheese coming down the conveyor. Baker Cheese produces nearly 3 million sticks of string cheese per day which means the costs of downtime are enormous. Their previous coding equipment wasn't able to deliver the print consistency needed to complement their high-quality cheese, so they found themselves needing an easy-to-use printing solution to produce high value prints within the small print window that's part of the Baker Cheese intermittent motion production process.

THE SOLUTION: A two-week head-to-head trial with multiple competitive printers proved that Hitachi's continuous inkjet printers were able to meet and exceed Baker Cheese's printer needs the best. Baker Cheese chose IMS Partners to supply RX Series Continuous Inkjet Printers and IMS was able to assist Baker Cheese in developing a print solution that flawlessly fit into their current production processes, allowing Baker Cheese to decrease downtime while increasing consistency of printing.

THE RESULTS: Not only did Hitachi Continuous Inkjet Printers decrease downtime, but they virtually eliminated it. With the improved output, the new Hitachi printers reduced printer costs while lifting the average into the exceptional. This increased business efficiency helped fortify Baker Cheese's position as one of the top string cheese producers in the US.

ROCKY MOUNTAIN SPICE COMPANY:

THE CHALLENGE: Due to the variety and volume of products that are packaged at Rocky Mountain Spice, the efficiency of their daily operations is closely monitored. One area that caused a lot of downtime was their marking and coding equipment. The interface was difficult to use when switching over a product line and repairs were often needed following continuous usage of the equipment. Paul Courtright, the maintenance manager, had worked with many inkjet manufacturers over the years, and was determined to find a better solution.

THE SOLUTION: After continued trouble with their inkjet printers, Paul reached out to their local Hitachi distributor, Colorado Scale Center, who he had worked with previously on other equipment. The Hitachi RX2 Series Continuous Inkjet Printers were highly recommended and a demo unit was made available. Rocky Mountain Spice quickly realized how easy the Hitachi was to operate, even on the production floor. During the two weeks of testing, the Hitachi RX2 required zero cleaning or maintenance, a huge step up from their previous printers.

THE RESULTS: The Hitachi RX2 Continuous Inkjet Printers helped to decrease downtime in a number of ways. Setting up each line before production is quick and easy with the intuitive user interface of the RX2 printers. Repairs and maintenance costs have virtually been eliminated due to the printer's durability and reliability. Since switching over to the Hitachi Printers, Rocky Mountain Spice has been able to focus on other priorities -- delivering fresh, quality spices.

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

PRINT SAMPLES

STANDARD PRINT SAMPLES

Font (Horizontal x Vertical)	UX SERIES				UX-D160W
5x5	1LINE: 0123456789ABCDEFGH / 012345678	2LINE: 01234567 ABCDEFGHI	3LINE: 01234567 ABCDEFGHI JKLMNOPQR	6LINE	(sample)
5x7	1LINE: 0123456789ABCD / 0123456	2LINE: 01234567 ABCDEFGHI	3LINE: 01234567 ABCDEFGHI JKLMNOPQR	4LINE	(sample)
7x10	1LINE: 0123456789 / 012345	2LINE: 01234567 ABCDEFGH	3LINE: 01234567890123456789 ABCDEFGHIJKLMNOPQRS TUVWXYZABCDEFGHIJKL		
10x12	1LINE: 0123456789ABCD / 0123456789	2LINE: 01234567890 ABCDEFGHIJK			
12x16	1LINE: 0123456789ABCアイウエオカキクケコ / 0123456 01		2LINE: 012 ABC (QR)		
18x24	1LINE: 0123456789 / 0123456ABC (QR)				(barcode)
24x32	1LINE: 0123456789ABCDEF / 012345 (barcode) (QR)				
30x40	1LINE: 012345ABCDEF				
36x48	1LINE: 012345ABCD				

STANDARD SPECIFICATION

Item		Model	
		UX-B160W Basic	**UX-D160W Dynamic**
Nozzle size		65μm	
Max. print line number		Up to 3 lines	Up to 3 lines (option: up to 6 lines)
Max. # of print characters		Up to 240 characters	Up to 240 characters (option: up to 1,000 characters)
Font (Horizontal x Vertical)	4 x 5	–	Option: ✔
	5 x 5	✔	✔
	5 x 7(8), 9 x 7(8)	✔	✔
	7 x 10	✔	✔
	11 x 11	✔ (Chinese only)	✔ (Chinese only)
	10 x 12	✔	✔
	12 x 16	✔	✔
	18 x 24	✔	✔
	24 x 32	–	Option: ✔
	30 x 40	–	Option: ✔
	36 x 48	–	Option: ✔
Character height		2 - 10 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	
Maximum print rate (characters per second) (Font 5x5, space 1, 1 line)		Up to 1,148	Up to 1,148 (Optional: Up to 2,296)
Standard characters		Alphanumeric (A-Z, a-z, 0-9), symbols (27) and space: Total 90	
User pattern		50 patterns each for dot matrix	200 patterns each for dot matrix
Print functions		Calendar, Count, Font mixture, Password	
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		150 messages	300 messages [Option: Up to 2,000 messages (depends on data content)]
Input signal		Print target detection Rotary encoder pulse (NPN/PNP Selectable)	Print target detection, Printing stop, Rotary encoder pulse, Reciprocative printing, Remote control (Run, Stop, High-voltage ON/OFF, Reset), (NPN/PNP Selectable)
Output signal		Print ready, Fault, Warning (NPN Only)	Print in progress or Print complete, Online (NPN/PNP Selectable), Print ready, Fault, Warning (NPN Only)
Data interface		Option (RS-232C at baud rates selectable up to 115,200bps)	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		0-50°C (1067K Ink)	
Operating humidity range		30-90% RH (no condensation)	
Power supply (Automatic voltage selection)		AC100-120/220-240V±10% 50/60Hz 120VA	
Dimensions (Width x Depth x Height)		400 x 320 x 527 mm	
International protection		IP55	IP65
Approximate weight		27kg	

Information in this brochure is subject to change without notice.

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 inkjet printer. Hitachi continually improves products. The right, therefore, is reserved to alter the designs and/or specifications without giving prior notice. Information in this brochure is subject to change without notice.

Visit www.hitachi-america.us/inkjetprinters/ or call (866) 583-0048

For more information, please contact your nearest sales representative.
Hitachi Industrial Equipment

HAL-100118MC