HTJ-Series

Coding & Marking Solutions

Thermal Inkjet Printer

Compact TIJ Single Head Variable Data Printer for Primary & Secondary Coding Applications

Touch Screen Controller powered by three different TIJ printheads for High-speed, High resolution and long throw distances applications

PRODUCT DESCRIPTION

HTJ-1050 PRO & HTJ-1100 MAX are trusted Thermal Ink Jet printers amongst Hitachi Coding & Marking customers for its cleanliness, cost-efficiency, low downtime, and maintenance-free design.

These high-resolution variable data TIJ printers are compact, reliable, user-friendly, and easy to set up within production lines. It comes with multiple connection options and a package of accessories for easy mounting on the conveyor belt.

❶ HTJ-1050 PRO
TIJ 2.5 ½ Inch Technology:
This TIJ technology has been developed to answer high-speed applications

❷ HTJ-1100 MAX
One Inch TIJ Technology provides high-resolution outer case packaging

Versatile

- **Easy to use**
  Free template design and control with PC application
- **Integration**
  Compact metal housing for easy integration
- **Flexible**
  Two models to answer any primary and secondary Coding applications

Adaptable

- **High Quality**
  Up to 600 dpi print quality
- **High Speed**
  76m/min @ 300 x 300 dpi
- **Uneven Surface**
  Wide selection of Aqueous & Solvent inks available to print on both porous & non-porous surfaces

WHY CHOOSE Hitachi **HTJ-1050 PRO / HTJ-1100 MAX**?

Simple, intuitive operation

- Compact and versatile variable data printer
- Easy to setup and integrate in any production line
- Built-In Internal Sensors
- Bulk Ink delivery system available for water-based inks
- Maintenance free printers
- Clean, no make-up additive solvents

Excellent print quality & capabilities

- High quality 600 dpi max print resolution
- High speed print up to 228m/min @ 300*100 dpi
- Print length of up to 500 mm
- Ethernet, TCP/IP, RS285 connections available
- Message creation remotely via web browser support free design
- I/O Ports DB15, USB flash, USB keyboard, Ethernet
- All types of barcodes can be printed
- Database support TXT, CSV files
- POD Support to control from other device throw command line available
- User mode, User management, system logs available
- CFR 21 Compliant

One inch technology available

- Wide Selection of Aqueous & Solvents inks available
- Minimal downtime, ink cartridges can be replaced easily
- No long start /shutdown procedure to follow
- Minimal printhead cleaning, filter replacements or any maintenance requirements

TECHNICAL SPECIFICATIONS

	HTJ-1050 PRO	**HTJ-1100 MAX**
Printing Technologies	Plug and print with HP45 ink cartridge (HP TIJ2.5 inkjet technology)	Plug and print with IUT ink cartridge
Dimensions (LxWxH)	120.6 x 86.1 x 90.5mm	120.6 x 86.1 x 95mm
Weight	644.7g	650.5g
Connectivity	RJ45 Port Remote Access to any OS POD Over Network Update Firmware over network	
Display	3.5" LCD Touch Screen	
External connection	AUX I/O port for External sensor, External Encoder and Alarm Beacon	
Resolution	Max 600 DPI	Max 300 DPI
Printing Speed	Maximum up to 76 m/min at 300x300dpi	40m/min @ 300x300dpi
Mounting brackets	Available	
Anti-Shock	Available	
Material housing	Black anodized aluminium	
Density	3 levels	
Throw Distance	5mm	

FEATURES

	HTJ-1050 PRO	HTJ-1100 MAX
Print Types	Text, Counter, Box/Lot, Datetime, Expiry Date, Julian Date, Shiftcode, Image, Database; 1D & 2D Barcodes (Code 11, Code 39, Code 128, EAN, QR, Datamatrix, GS1 Datamatrix)	
Maximum Characters	Maximum characters input up to 150 characters per line	
Template length	1.5m	
Printable height	Maximum 12.7mm	Maximum 25.4mm
Printable Characters	Windows true fonts	
Database	TXT, CSV	
Security	Password protection, Automatic recognition of inks (aqueous or solvent) and application of appropriate printing parameters	
Advanced Features	Free design in template up to 12.7mm	Free design in template up to 25.4mm
Print mode	Continuous mode, Sensor mode and Repeat mode	
Print direction	Left to right, Right to left, Left to right reverse and Right to left reverse	
Printable surface	Flat, Curve (pipe), Porous, Semi-Porous, Non-Porous	
Print Languages	English (default), Vietnamese, Thai, Turkish, Chinese (PRC), Korean, Russian, Japanese, Hebrew, Spanish, Portuguese and Arabic	
System Languages	English (Default), German, Vietnamese, Simplified Chinese, Korean, Russian, Turkish, Portuguese, Spanish, Polish	

Ink Solutions	HTJ-1050 PRO	HTJ-1100 MAX
Ink type	Solvent-based and Water-based inks	
Colors	● ● ●	
Bulk Ink delivery system	Available for Water-based inks	Available
Ink security technology	Smart chip	

Operating Conditions	HTJ-1050 PRO	HTJ-1100 MAX
Power supply	AC 100V–240V, 50/60Hz, DC 24V 2.5A	
Operating Temperatures	5 - 40°C and 90% air humidity, non-condensing	

PRODUCT DESCRIPTION

The HTJ-4400 is the high-end Hitachi Thermal Ink Jet printer coding solution.
With a 7" touch screen controller that can connect up to four print heads, the
HTJ-4400 printer control system is highly adaptable to your packaging printing needs.

HTJ-4400 is available in three different printheads configurations:

1 PH-4000-H
TIJ 2.5 Technology: This TIJ technology has been developed to answer high-speed
applications

2 PH-4000-I
One Inch TIJ Technology provides high-resolution outer case packaging

3 PH-4000-F
Funai printhead provides longer throw distances with very fast ink drying time

Versatile

- **Easy to use**
  7" Touch screen with intuitive WYSIWYG
  Interface
- **Integration**
  Sleek & streamlined for
  easy integration with 3rd party products
- **Flexible**
  Variable database function to meet
  the requirements in all kinds of
  applications

Adaptable

- **High Quality**
  HTJ-4400 provides up to 600 dpi print
  quality
- **High Speed**
  Usual 76m/min @ 300 x 300 dpi
- **Throw Distance**
  Funai printhead provides long throw
  distance up to 10mm
- **Uneven Surface**
  Print on both porous & non-porous
  surfaces
- **Head Printing**
  Connection up to 4 printheads

WHY CHOOSE Hitachi **HTJ-4400**?

Simple, intuitive operation

- User friendly 7" touchscreen colour display with WYSIWYG graphical interface

- Easy to setup and integrate with any production line/ devices (PLC, Camera, Check- weigher, etc)

- Built-In Internal Sensors

- Max. 4 printheads can be controlled by one controller

Excellent print quality & capabilities

- High quality 600 dpi max print resolution

- High speed print up to 228m/min at 300*100 dpi

- Versatile Print heights available in ½ (12.7 mm) & 1 inch (25.4mm)

- Max. 4 printheads can be controlled by one controller

- Print length of up to 2m

One inch technology available

- Wide Selection of Aqueous & Solvents inks available

- Minimal downtime, ink cartridges can be replaced easily

- No long start /shutdown procedure to follow

- Minimal printhead cleaning, filter replacements or any maintenance requirements

TECHNICAL SPECIFICATIONS

	PH-4000-H	PH-4000-I	PH-4000-F
Printing Technologies	Plug and print with HP TIJ2.5 cartridge	Thermal inkjet technology	Thermal Inkjet Technology from Funai, Japan
Dimensions (LxWxH)	Controller: 221.6 x 153 x 54.5 mm, Printhead: 141 x 46 x 58mm	Controller: 221.6 x 153 x 54.5 mm, Printhead: 141 x 46 x 72 mm	Controller: 221.6 x 153 x 54.5 mm, Printhead: 136 x 65 x 83 mm
Weight (g)	1,750g		
Resolution	Maximum 600x600dpi	Maximum 300x600 dpi	
Printing Speed	76m/min @ 300x300dpi	40m/min @ 300x300dpi	Max 29m/min @ 300x300dpi - 40m/min @ 300x200dpi
Density	Up to 3 levels		
Throw Distance	1~5 mm		1~8 mm

FEATURES

	PH-4000-H	PH-4000-I	PH-4000-F
Control Mode	Controller box, Touch screen 7 inches		
External Connection	AUX I/O port for external sensor, external encoder and alarm beacon connection		
Printability	Alphanumeric, Logos, Date/time, Expiry date, Julian date, Shiftcode, Counter and Image; Multiple types of variable 1D, 2D barcodes; Real-time Print Online Data (POD)		
Advance	Check health nozzle (good/bad) of cartridge; Support warming ink function to print messages at cold environment; Support WYSIWYG (what you see is what you get) function; Remote printer by PC via LAN port		
Length Template	Maximum length of template up to 3m		
Design Template	Free template design, unlimited characters and running Standalone; Abillity to import and export template		
Printable Character	Windows true fonts		
Security	Password login protection; Cartridge auto recognize protection		
Ink Management	Automatic recognition of inks (aqueous or solvent) and application of appropriate printing parameters; Auto-jet mode and self-cleaning capabilities to extend cartridge lifetime		
Smart Design	Strong and compact design; Cartridge slot design for easier take in and take out		
Protection	Controller: with mounting bracket to keep controller anywhere; Printhead: anti-shock mechanism, support side by side and upside down printing direction		
Menu Languages	English, Russian, Chinese, Italian, German, Portuguese, Vietnamese, Spanish, Japanese, Thailand and Arabic		

Ink Solutions	PH-4000-H	PH-4000-I	PH-4000-F
Ink type	Aqueous ink for porous, semi-porous media and foods; Solvent ink for semi and non-porous media		Solvent ink for semi and non-porous media
Colors	● ● ●		●

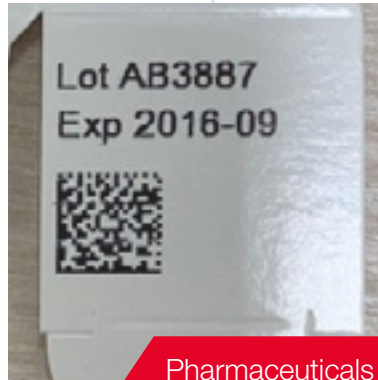| Operating Conditions	PH-4000-H	PH-4000-I	PH-4000-F
Ink type	AC 100V-240V, 50/60Hz, 24VDC 5.0A. Max consumption: 120W		
Colors	5 - 40°C		

APPLICATIONS

HTJ-1050 PRO │ HTJ-1100 MAX │ HTJ-4400

Industries

Food & Beverages

Pharmaceuticals

Personal Care

Automotive

Electronics
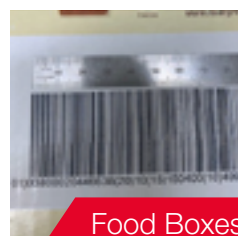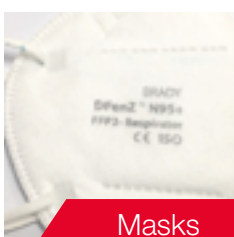

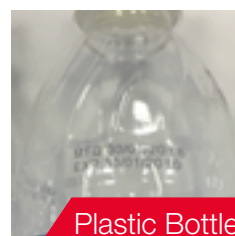Shipping & Logistics

Porous Substrates

Carton Boxes

Food Boxes

Masks

Medicines

Non-Porous Substrates

Plastic Bottles

Cans

Food Labels

PVC Tubes

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