



## PRINT & VERIFY

**PRINT & VERIFICATION PRODUCT HANDLING EQUIPMENT FOR CARTONS**  
The HSAJET® solution is a stand-alone package handling system for marking applications on flat or erected cartons.

- Complete machine controlled by HSAJET® software and hardware.
- The unit makes it possible for the pharmaceutical company to comply with GAMP and 21 CFR part 11 or other current regulatory demands.
- Print and verification in accordance with ISO15415 and ISO15416 and other industrial standards.
- User-friendly operating of machine, printer and vision via one central touch screen.
- Excellent in-line print quality due to synchronized guiding belts (Top and Bottom).
- Integrated reject control system.
- The most compact, flexible and maintenance friendly concept in the market.
- Validation package, available on request.

## SINGLE PASS DIGITAL PRINTING

### COLOR PRINTING SYSTEMS

- Variable Data.
- LED Curing Lamps.
- CMYK + WW + Clear.
- Hi-Resolution Quality.
- Pre-treatment Options.
- Wide Variety Of Substrates.
- Outstanding Print Performance.
- Custom Product Handling Solutions.
- UV Cured, Solvent, Oil, Aqueous, and Specialty Fluids.



## TURN-KEY SOLUTIONS

### PRINTER CONVEYORS

- Powerful, reliable and precise product transport.
- Variable speed control.
- Product guides.



### TRANSPORT BASES

- We offer innovative and robust equipment for numerous applications including feeding, conveying, and turnover applications.
- Modular designed equipment.
- Custom integrated solutions.

### PRODUCT FEEDERS

- Friction feeders.
- Pick and Place feeders.
- Vacuum friction feeders.



WE THINK OUTSIDE THE BOX

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# INDUSTRIAL CODING & MARKING

SOLUTIONS

- ✓ FLEXIBLE
- ✓ RELIABLE
- ✓ COST EFFECTIVE
- ✓ HI-RESOLUTION
- ✓ HI-SPEED, QUALITY PRINTING
- ✓ BARCODES AND VARIABLE DATA
- ✓ BARCODE VERIFICATION SYSTEMS
- ✓ SOFTWARE (STANDARD AND CUSTOM)
- ✓ ENVIRONMENTALLY SAFE AND ECONOMICALLY FRIENDLY INKS
- ✓ STAINLESS STEEL AND ANODIZED CONSTRUCTION FOR DURABILITY





# CONTROLLERS



Type	Model	Description	Max Print Height			Ethernet 32RS2	Database	Max Messages	Logo	Text	Barcodes	Counters	Date Time
			HP	XJ-128	XJ-500								
MINI SERIES	MCHP1	Micron	0.5"	N/A	N/A	No	No	1	Yes	Yes	Yes-Limited	2-Max	4-Max
	MKHP4	Mini Key	2"	N/A	N/A	Yes	Limited	Unlimited	Yes	Yes	Yes	Yes	Yes
	MTHP4 & MTHP4-PRE	Mini Touch (Fuse type or Premium Print Heads)	2"	N/A	N/A	Yes	Limited	Unlimited	Yes	Yes	Yes	Yes	Yes
CU SERIES	TCUF	Tiny Controller Unit	1"	N/A	N/A	No	No	1 (Opt 10)	Yes	Yes	Yes-Limited	2-Max	4-Max
	TCUF-I	Tiny Controller Unit with Integrated Keypad and Display	1"	N/A	N/A	No	No	250	Yes	Yes	Yes-Limited	2-Max	4-Max
	CUF	Controller Unit Fuse Type HP	2"	N/A	N/A	Yes	No	250	Yes	Yes	Yes-Limited	Yes	Yes
	CU2	Controller Unit (Xaar and old style HP print heads)	1"	5.6"	5.6"	Yes	No	250	Yes	Yes	Yes-Limited	Yes	Yes
FLEXIBLE SERIES	TIPC15	Touch Industrial Printer Controller	2"(*)	11.2"	11.2"	Yes	Yes	Unlimited	Yes	Yes	Yes	Yes	Yes
	CT	Industrial Controller	6"(*)	33.6"	33.6"	Yes	Yes	Unlimited	Yes	Yes	Yes	Yes	Yes
	CT-TOUCH	Industrial Controller with Touch	6"(*)	33.6"	33.6"	Yes	Yes	Unlimited	Yes	Yes	Yes	Yes	Yes
	OPC	Tower Office Controller	6"(*)	33.6"	33.6"	Yes	Yes	Unlimited	Yes	Yes	Yes	Yes	Yes
	RPC	19" Rack Printer Controller	8"	44.8"	44.8"	Yes	Yes	Unlimited	Yes	Yes	Yes	Yes	Yes
	CBF	Controller Board	2"	N/A	N/A	Yes	Yes	Unlimited	Yes	Yes	Yes	Yes	Yes
	CB2	Controller Board	2"	11.2"	11.2"	Yes	Yes	Unlimited	Yes	Yes	Yes	Yes	Yes
	CB6E (*)	Controller Board for Premium Print Heads	8"	N/A	N/A	Yes	Yes	Unlimited	Yes	Yes	Yes	Yes	Yes

HP INDUSTRIAL PRINT TECHNOLOGY  
XAAR INDUSTRIAL PRINT TECHNOLOGY  
INKS SOFTWARE ACCESSORIES  
PRINTER SPECIFICATIONS  
HP RESOLUTIONS

## HSAJET® F-TYPE PRINTHEADS W HP TIJ 2.5 TECHNOLOGY

- Printheads available in different configurations: top/down, side & side/low as 1, 2, 3, 4, 6 and 8 pens (1/2"-4").
- Printheads can be combined in other configurations on special footplate/sole for integration purposes.
- CMYK printheads for colourprints 1/2-1" print height.



## HSAJET® PREMIUM PRINTHEADS W HP TIJ 2.5 TECHNOLOGY

- Premium printheads are as standard available with 1, 2, 3, 4, 6, 8 or 10 pens (1/2"-5").
- For use with the Premium series of printer controllers.
- Reversible footplate for left and right travel of products.
- Keypad with LED low ink signal and reset button on each head.



## XAAR-128 SERIES PRINTERS

- Flexible and modular construction.
- 17.5mm print swath.
- 185 dpi up to 90 m/min with high speed head (wetting).
- 80 pL drop size available.



## XAAR-500 SERIES PRINTERS

- Ideal for printing contrast-rich barcode on shipping cases.
- 70mm print swath.
- 180 dpi up to 68 m/min.
- 40 pL drop size available.

## XAAR-1000 SERIES PRINTERS

- The benchmark for single-pass print quality
- The Xaar 1000 delivers high productivity and versatility
- 360 dpi, 8 grayscales, 720+ apparent dpi, up to 24 m/min
- 41pl drop volume, 6pl sub drops"

## HP AND HP PARTNER INKS FOR HP TIJ 2.5

- HP Series 45 ink cartridges for industrial use.
- Bulk inks up to 1 liter bottles.
- Black, colors, security and special inks.
- Solvent based inks for non Porous sefaces.
- UV cured inks that require UV curing lamps.



## XAAR

- Oil based inks.
- Solvent based inks.
- UV cured based inks.
- Security inks.

## PRINTING SOFTWARE & ACCESSORIES

- OBJ InkDraw - MailDraw - Print & verification software.
- MiniDraw - MicroDraw (PC software).
- Bridges, headmounts, brackets.
- Vision system, sensors, encoders.
- Barcode scanners.



	HP - SERIES 45 CARTRIDGE	XJ128 SERIES	XJ500 SERIES	XJ1000 SERIES
Controllers	All	RPC, OPC, CT, TIPC15 CB2, CU2, CT-Touch	RPC, OPC, CT, TIPC15 CB2, CU2, CT-Touch	Windows based system
Print Head Resolution	Up to 600 dpi.	185 dpi.	180 dpi.	360 dpi.
Channel Resolution (dpi)	See HP Resolutions Below	185	180	360
Typical Drop Volume	30pl	70pl	80pl	6 to 42pl
Speed Max Fire Frequency	15kHz	5.5kHz	4.0kHz	6.0 kHz
Maximum Print Speed	See HP Resolutions	45m/min (147ft/min)	34m/min (111ft/min)	24m/min (80ft/min)
Double Speed	N/A	90m/min (249ft/min)	N/A	N/A
Print Swath	0.5" per pen/cartridge	17.5mm (0.7") p/engine	70mm (2.8") p/engine	70.5mm 2.8" p/engine
No. of Addressable Channels	300 per pen	128	500	1000
Optimal Print Distance	1mm	1mm	1mm	1mm
Print Head Cable Length	6' standard, max 25'	6' standard, max 25'	6' standard, max 25'	N/A
Inks	Water Based, Solvent, UV/IR	Oil, Solvent	Oil	Solvent, UV, Oil

VERTICAL RESOLUTION (dpi)	HORIZONTAL RESOLUTION				
	75-2400 dpi (variable)* speed m/min (ft/min)				
	75 dpi	150 dpi	300 dpi	600 dpi	2400 dpi
600 dpi	306 (1000)	152 (500)	76 (250)	38 (125)	10 (32)
300 dpi High Speed	612 (2000)	306 (1000)	152 (500)	76 (250)	19 (62)
300 dpi (Row A)	306 (1000)	152 (500)	76 (250)	38 (125)	10 (32)
300 dpi (Row B)	306 (1000)	152 (500)	76 (250)	38 (125)	10 (32)

\*Not Applicable to TCUF, TCUF-I and CUF

**THE FIRST CHOICE IN PACKAGE PRINTING**