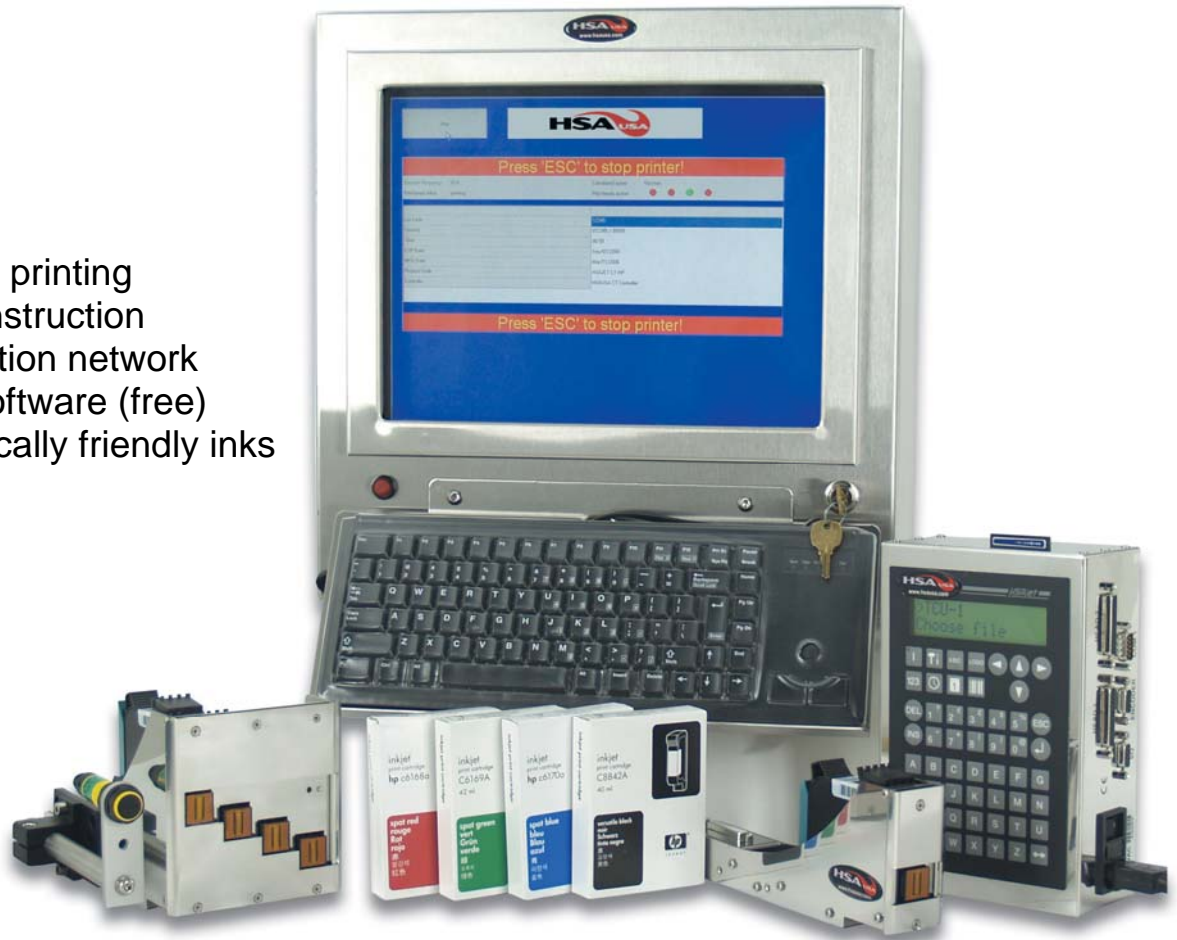




# Industrial Coding and Marking Solutions

- Flexible
- Reliable
- Cost effective
- High resolution
- High speed quality printing
- Stainless steel construction
- Worldwide distribution network
- Windows based software (free)
- Safe and economically friendly inks




12345678901231




1 23456 78901 2





**High resolution  
industrial inkjet printers**

inkjet  
technology by



invent



*Leading companies.  
Leading solutions.*

CONTROLLERS

**Power-PC  
19" Rack Mount**



**CT**



**CT-Touch**



**TIPC**



**CB**



**Mini-Touch**



**CU**



**TCU-I**



**TCU**

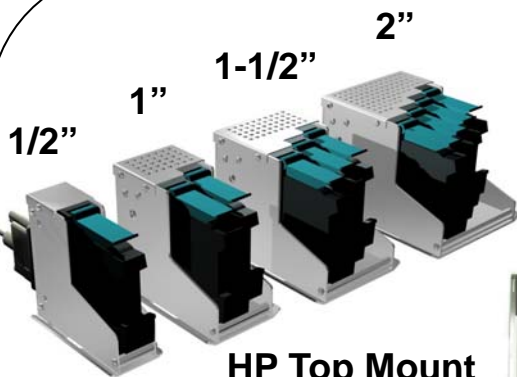


**Terminal & Print Selector**



Controllers		Max HP	Print XJ-128	Height XJ-500	Ethernet RS232	Database	Max Messages	Logo	Text	Barcodes	Counters	Date Time	Dimensions W x L x H
Power-PC	Rack Mount Controller	8"	44.8"	44.8"	Yes	Yes	Unlimited	Yes	Yes	Yes	Yes	Yes	18" x 15" x 20"
CT	Industrial Controller	4"	22.4"	22.4"	Yes	Yes	Unlimited	Yes	Yes	Yes	Yes	Yes	16" x 15" x 16"
CT-Touch	Industrial Controller with Touch	4"	22.4"	22.4"	Yes	Yes	Unlimited	Yes	Yes	Yes	Yes	Yes	16" x 15" x 16"
TIPC	Touch Industrial Print Controller	2"	11.2"	11.2"	Yes	Yes	Unlimited	Yes	Yes	Yes	Yes	Yes	13.8" x 6.9" x 11.3"
CB	Controller Board	2"	11.2"	11.2"	Yes	Yes	Unlimited	Yes	Yes	Yes	Yes	Yes	1.2" x 8.2" x 4.2"
Mini-Touch	Mini Touch Controller	2"	N/A	N/A	Yes	No		Yes	Yes	Yes	Yes	Yes	5.3" x 5.7" x 1.6"
CU	Controller Unit	2"	5.6"	5.6"	Yes	No	250	Yes	Yes	Yes-Limited	Yes	Yes	5.5" x 7.9" x 4.2"
TCU-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	5.5" x 7.9" x 3.4"
TCU	Tiny Controller Unit	1"	N/A	N/A	No	No	1	Yes	Yes	Yes-Limited	2 max	4 max	5.5" x 7.9" x 2.4"

HP PRINTERS

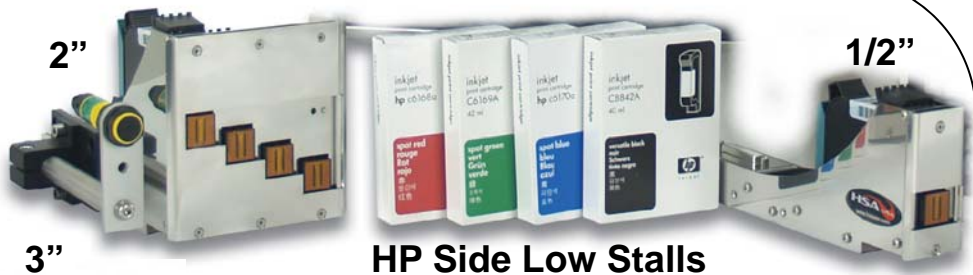


**HP Top Mount Stalls**



**HP Color Printer**

**HP bulk systems**



**HP Side Low Stalls**

HP Resolutions (H x W)	HP Speed	Controllers
600 x 600 dpi	38 m/min (125 ft/min)	All
300 x 300 dpi	152 m/min (500 ft/min)	All
300 x 300 (one row) dpi	76 m/min (250 ft/min)	All
300 x 150 dpi	306 m/min (1000 ft/min)	All
600 x 300 dpi	76 m/min (250 ft/min)	All but TCU, CU, Mini-Touch
300 x 600 (one row) dpi	38 m/min (125 ft/min)	All but TCU, CU, Mini-Touch



XJ-500 Engine



XJ-128 (2.8'')



XJ-128 Engine



XJ-128 (0.7'')  
With 50cm umbilical

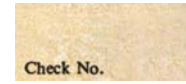
Printers Specifications	HP-Series 45 cartridge	XJ128+ 200dpi	XJ500-180
Controllers	Power PC, CT, CT-Touch, TIPC, CB, Mini-Touch, CU, TCU-I, TCU	CT, CT-Touch, TIPC, CB, CU	CT, CT-Touch, TIPC, CB, CU
Quality of Print head resolution	600, 300, 150 dpi	185dpi	180dpi
Channel resolution (dpi)	See HP Resolutions	185	180
Typical drop volume	30pl	70pl	80pl
Speed Max fire frequency	15kHz	5.5kHz	4.0kHz
Maximum print speed	See HP Resolutions	45m/min (147ft/min)	34m/min (111ft/min)
Double Speed	N/A	90m/min (294ft/min)	N/A
Print swathe width	0.5"	17.5mm (0.7")	70mm (2.8")
No. of addressable channels	300 per pen	128	500
Optimal print distance	1mm	1mm	1mm
Max engines per controller	8-CT (4 per CB card), 4-TIPC, 4-CB, 4-CU & MT, 2-TCU, 16-Power PC	32-CT (16 per CB card), 16-TIPC, 16-CB, 8-CU, 4-SA	8-CT (4 per CB card), 4-TIPC, 4-CB, 2-CU
Print head cable length	6' standard, max 12'	6' standard, max 25'	6' standard, max 25'
Inks	Water Based, UV/IR	Oil, Solvent	Oil

- Water based inks
- Solvent Based Inks
- Oil Based Inks
- Colors Inks CMYK
- Covert marking inks
- UV cured
- UV/IR inks (ultraviolet/ infrared)

### Covert Marking



Visible code above



Invisible code above



Invisible code under ultraviolet light

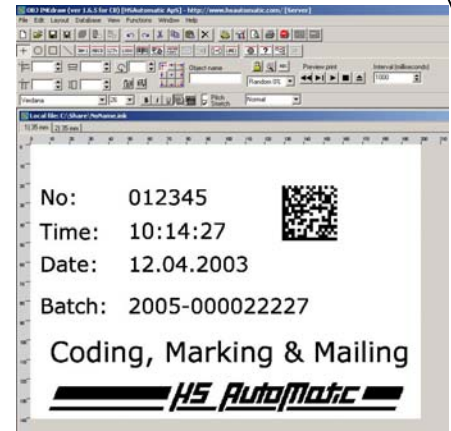
### "We think outside the box"

- HSA USA provides Technology Integration and Automation Services.
- Application Engineering
- Custom Product Handling
- Barcode Reading and Verification
- Vision System Integration
- Covert Marking Solutions
- Track & Trace Solutions
- Special Inks
- E-Pedigree Solutions



### OBJinkDraw Label Design Software

- Completely Free software
- WYSIWYG
- Extremely flexible and versatile
- All barcodes / databases supported
- Built in Ink Cost calculator
- Ink level detection
- Mailing module available
- Logos
- Different Fonts and sizes
- Barcodes
- Date and Time
- Counters



- Remote Control by Ethernet/ Serial
- Edit message content real time
- Prompts



**CU with HP 4pen printer mounted on Taper with Swing Arm**



**Champion Model 700-20 shown at right**

- Two- 502 Easy Load 2" Tape Heads (Top & Bottom Seal)
- Top Tape Head Can Be Repositioned For Off Centre Seal
- A Set Of 4 Locking Casters
- Top Squeezers Keep Carton Square Before Taping
- Pop Out and Interchangeable Tape Heads
- Adjustable Legs from 22"-32" with Casters
- Infeed/Exit Table (16" in Length)

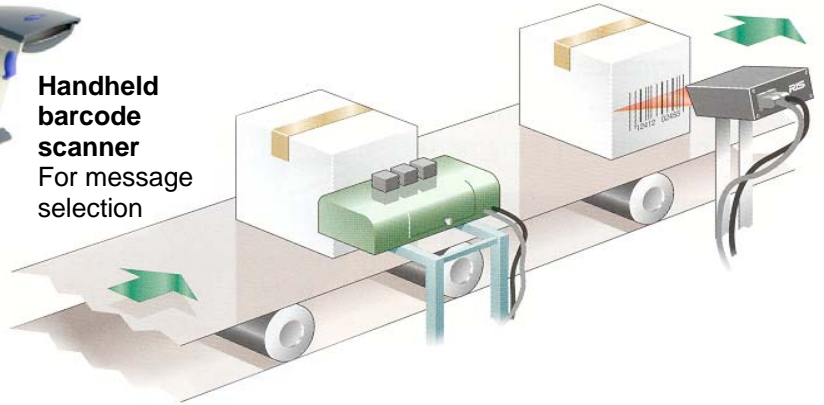
**CHAMPION**  
CASE SEALING MACHINES

**BSC "Barcode Scanner Controller"**

- In-line barcode scanning
- Operates one or two barcode scanners
- Avoid unnecessary cost (detect the bad barcodes before your customer does)
- Provides 100% inspection of barcodes
- Alarm output (audible and visual)
- Relay output to stop production or reject
- Readable 1D, 2D, UV and IR barcodes



**Handheld barcode scanner**  
For message selection



**HSA USA**  
150 William Street  
Perth Amboy, NJ 08861  
Toll free: 1-800-298-8936  
Phone: 732-324-0800 Fax: 732-324-4488  
sales@hsausa.com

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