Bluhm Weber Group

Weber®
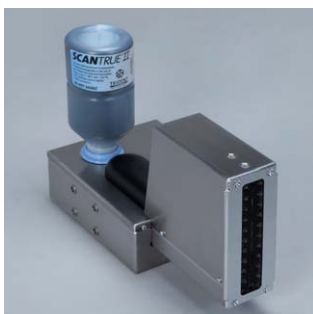LABELING & CODING SOLUTIONS

X4JET

The X4JET is a universal, blindingly fast print controller for inkjet printing, which can control different types of inkjet printing technology either simultaneously or alternately.

The flexibility of this reliable and fast system is impressive, because this new and compact solution is now capable of printing both primary and secondary packaging on two sides and on one or two independent production conveyors or marking at up to four printing positions simultaneously. The print controller is maintenance free, thereby offering considerable investment and cost benefits.

- Texts, use-by dates, barcodes, 2-D codes, graphics, and logos
- Up to 3,000 serializations per minute with HP printing technology and 600 dpi resolution
- Simultaneous or alternate control of HP and
- Piezo printing technologies is possible
- Variable symbol heights of between 1 and 50 mm with HP printheads
- and between 3 and 400 mm with Piezo printheads
- One- or two-sided coding of packaging or on two different production lines
- 1:1 data transfer for real-time printing
- iDesign software

inkjet
technology by

hp invent ®

X4JET

idesign

X4JET

With the all-new X4JET, the BluhmWeber Group has launched on the market a system that can control both up to four HP and up to four Piezo printheads. Texts, barcodes, and company logos can also be printed simultaneously or alternately using both printing technologies. HP technology printheads can print symbol heights of between 1 and 50 mm, while Piezo technology printheads can print symbol heights of between 3 and 400 mm. The X4JET is capable of printing both primary and secondary packaging on one or both sides even on two independent production lines using different printing starts and printing speeds.

What's more, the system is blindingly fast: using HP printing technology, the X4JET manages up to 3,000 serializations per minute in the form of variable barcodes or 2-D codes. The compact controller is easy to integrate into complex plants. Data is transferred 1:1 to the printheads via standard interfaces such as Ethernet and USB, making real-time printing without stack processing possible. Operation is easy thanks to the iLogik controller and an integral, high-resolution display. Even specialists with no experience of printing will quickly find their way around the menu and adjust settings.

Technical data:

Number of print heads
1 to 4 print heads per system

Print heights
- With HP Print heads from 1 to 50 mm
- With Trident print heads from 3 to 400 mm

Print direction
Left/right or right/left, from the top or from the side

Print head distance
Maximum 5 mm from the product

Speeds
- Trident print heads
  Up to 200 m/minute, depending on font size and intensity
- HP print heads
  Up to 90 m/minute with a resolution of 300 dpi
  Pro-Version:
  - Up to 360 m/minute with Hi-Speed version and a resolution of 150 x 300 dpi
- Barcode applications up to 60 m/minute

Resolution
- Horizontal: 100 to 900 dpi
- Vertical: up to 600 dpi with HP print heads
- Vertical: up to 192 dpi with Trident print heads

Text memory
Unlimited

Text length
2 m
Pro-Version:
6 m

Font- and logo memory
2 GB

Automatic functions
Counter, date with offset, variable data fields,

Barcodes
EAN 8, EAN 13, EAN 128, 2/5 ITF, 2/5 ITF with hash total code 128, UPC A, UPC E, DUN 14
2D codes: Datamatrix, EAN Datamatrix, QR-Code

Interfaces
USB A, USB B, TCP / IP, RS232

Inputs controller
- 2 x Light barrier (M8)
- 2 x shaft encoder (M8)
- 4 x inputs NPN / PNP, reversible by software

Outputs controller
- OK, warning, alarm / signal light
- 4 x programmable potential-free relay outputs

Electrical connection
Controller: 90 to 240 VAC, 50/60 HZ, max. 100 W

Dimension
Controller: 220 x 230 x 140 mm

Ambient conditions
- Ambient conditions: 5 °C bis 40 °C
- Relative humidity: 10 bis 90 %
- Non-considering

Key features
- Print height up to 400 mm with four print heads
- 2-channel version for both-sided prints of packages or prints of packages at two independent product lines with print heights up to 200 mm
- Big range of different writings and true type fonts
- Activation over Ethernet or USB especially via iDesign PC Software
  Pro
  - Usermanagement with passwort protection

Technical data:

HP print heads TIJ 2.5

Print heights
12,5 to 50 mm (depending on the configuration)

Print direction
Left/right or right/left, from the top or from the side

Print head distance
Maximum 5 mm from the product

Speeds
- Up to 90 m/minute with a resolution of 300 dpi
- Hi-Speed Version: up to 360 m/minute with a resolution of 150 x 300 dpi
- Barcode applications up to 60 m/minute

Resolution
- Horizontal: 50 to 900 dpi
- Vertical: 300 or 600 dpi

Number of nozzles
300 nozzles in 2 rows per 150 nozzles

Font size
From 1 to 12,5 mm per print head, up to 50 mm total

Ink
Water-based pigmented and non-pigmented inks for absorbent and semi absorbent surfaces, available in Black, Blue, Red and Green. Other inks on request. Solvent inks for non-absorbent surfaces, available in Black

Printhead variations
Long, short or flat print head types allow a individually installation (i.e. by crowded conditions)

Cartridge holder
Click'n Print holder (patent pending)

Key features
- Brilliant labeling quality and maintenance-free printer function
- Print resolutions of up to 900 dpi
- Print speeds of up to 360 m per minute
- Central ink supply (1,000 ml) available as an option

Trident print heads MultiLine MX 50

Print heights
50 to 200 mm

Print direction
Left/right or right/left, from the top or from the side

Print head distance
Maximum 5 mm from the product

Speeds
- Up to 200 m/minute
- Barcode applications up to 60 m/minute

Resolution
- Horizontal: 50 to 600 dpi
- Vertical: 192 dpi (nozzles), 64 dpi (channels)

Number of nozzles
384 nozzles controlled by 128 channels

Font size
from 3 to 50 mm per print head, up to 200 mm total

Ink
Pigmented ink Scantrue II Black for absorbent surfaces

Printhead variations
Compact printing only from the side TOP and Vario on request

Cartridge holder
500 ml ink bottle

Key features
- Best labeling quality
- Low-maintenance print function
- Reparable printhead

Trident print heads MultiLine MX 100

Print heights
100 to 400 mm

Print direction
Left/right or right/left, from the top or from the side

Print head distance
Maximum 5 mm from the product

Speeds
- Up to 200 m/minute
- Barcode applications up to 60 m/minute

Resolution
- Horizontal: 50 to 600 dpi
- Vertical: 192 dpi (nozzles), 64 dpi (channels)

Number of nozzles
768 nozzles controlled by 256 channels

Font size
from 3 to 100 mm per print head, up to 400 mm total

Ink
Scantrue II Black, Versa in Black, Red, Blue and Green (dissolved dye) for absorbent surfaces

Printhead variations
Compact printing only from the side TOP and Vario on request

Cartridge holder
500 ml ink bottle

Key features
- Best labeling quality
- Low-maintenance print function
- Reparable printhead

Ink
- HP ink cartridges:
  Water-based pigmented and non-pigmented inks for absorbent and semi absorbent surfaces, available in Black, Blue, Red and Green. Other inks on request. Solvent inks for non-absorbent surfaces, available in Black

- Piezo ink:
  Pigmented ink for absorbent surfaces, Pigmented standard ink in Black for MultiLine MX 50 and 100 mm print heads (optional: Ink with dissolved dye in Black, Blue, Red and Green, only for 100 mm print heads available)

Ink consumption
Automatic computation and display of the ink consumption for the current print image by the system

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