



Alpha TIJ

Multi-functional inkjet printing with the Alpha label dispenser

There are many label dispensers on the market with the integrated option of post-printing label data, e.g. additional information such as shelf life, batch and load info, ingredients, barcodes and logos. But the conventional printing techniques available for this purpose are generally designed to be used exclusively in conjunction with a labeling unit.

This is where the Markoprint Thermo-Inkjet printer, with its new Alpha TIJ labeling solution, differs: this printer can be removed in a few operations and easily and conveniently installed at different packaging plants, such as blister machines, cartoners, tray packers, pillow bag machines, conveyors or similar units in the final packaging area. Depending on equipment application, this translates to significantly reduced investment costs and creates multifunctionality. The Markoprint inkjet printer can of course also be integrated into almost any other label dispenser – even other brands – provided the technical prerequisites in terms of installation space are met.

The Alpha TIJ comprises a label dispenser of the proven and renowned BluhmWeber Group Alpha series and a Markoprint X4 thermal inkjet printer. With the Alpha TIJ variable information is printed without physical contact onto possibly pre-printed labels immediately before dispensing. No labels are wasted/lost when print data changes and previous data are automatically excluded when the product changes. Using the cartridge ink technology, labels with up to 50 mm high symbols and a resolution of up to 600 dpi can be

printed neatly and quickly. Data transmission to the print heads is 1:1. Real time printing without batch processing is also possible. A wide variety of quick drying inks and colors is available for a wide range of applications on diverse label surfaces.

Place your bets on the Alpha TIJ with inkjet printer, for quality and economy:

- printing of information such as text, shelf life, barcodes, 2D codes, graphics and logos
- changing of print data via automatic functions or quick change of data by hand, directly at the applicator or via overriding computers.
- up to 3 000 serializations per minute and 600 dpi resolution, using cartridge printing technology
- up to 3 m per second printing speed at 300 dpi resolution
- integrated and automatic date functions with expiry calculator and serial numbers
- variable symbol heights from <1 to 53 mm, due to state-of-the-art print heads
- brilliant marking quality and maintenance-free functionality
- immediate printing and high reliability, based on proven cartridge printing units
- a new printing unit with every ink cartridge replacement
- patented Click 'n Print cartridge replacement for simple operation
- printing in throughput mode in direction of travel, at various speeds

Technical Specifications:

Alpha Label Dispenser

Application Performance

label peel-off speed or rather product speed, up to 50 m per minute

Application Rate

up to 500 labels per minute (depending on label length)

Fault Recognition

automatic switch-off in case of roll end or web-break

Label Gap

minimum 3 mm

Label Roll

maximum 300 mm outer diameter on 76 mm (3") roll core

Label Sizes

minimum height 7 mm, but larger with 1:1 printing and dispensing (depending on the number of installed print heads)

maximum label width: up to 300 mm

maximum label length: 1 000 mm

Product Sensor

external, photocell capacitive/inductive

Markoprint X4

Number of Print Heads

1 to 4 heads per system

Printing Heights

from <1 to 50 mm, depending on print head type

Print Direction

left/right or right/left, from the top or from the side

Print Head Distance

maximum 6 mm to the product surface

Printing Speed, Print Heads

- up to 360 m/minute
- barcode applications up to 60 m/minute

Resolution

Vertical: up to 600 dpi

Text Memory

unlimited

Text Length

up to 6 meters

Font and Logo Memory

2 GB

Automatic Functions

counter, date with shelf life, variables input

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, Ethernet, RS232

Inputs, Controller

- 2 x photo sensors capacitive/inductive (M8)
- 2 x rotary shaft encoders (M8)
- 4 x control inputs NPN/PNP, software switchable

Outputs, Controller

- OK, Warning, Alarm/Status light,
- 4x programmable floating relay outputs

Electrical Connection

controller: 90 to 240 VAC, 50/60 HZ, maximum 100 W

Environmental Conditions

- environmental temperature: 5°C to 40°C
- relative air humidity: 10% to 90%, non-condensing

Changes to technical data reserved.

Please refer to individual documentation for further system information on the Markoprint and Alpha series.



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