Drop-on-demand valvejet
4700

Complete, compact and reliable
The 4700 is a robust & intuitive case coding solution for unmatched value

Facilitate logistics with the 4700's proven drop-on-demand valvejet technology. The 4700 is quick and easy to install and operate. It offers numerous low-resolution text and logo options. Its extended ink capacity enables you to maximize production uptime while its reserve tank allows for consumable changes without stopping your line.

Your benefits

- Made to fit easily on any line
- Effortless image creation
- Your product, your print
- Improve readability and reduce logistics errors
- Less downtime and operator intervention
- Increase factory throughput
- Robust and reliable

Product features

Simply install, design, and print

- The compactness of this coder makes it the perfect solution for some of the most inaccessible production lines and environments. It easily integrates with other equipment via Ethernet, serial port, or I/O connection for message select, error output, and weight scale integration.

- Design print jobs with Markem-Imaje **CoLOS®** or locally on the intuitive 7" color touchscreen in your local language with Latin, Arabic, Cyrillic, Chinese, Greek, Hebrew, Thai, etc. characters.

- Identify your products with your choice of static text, date, time, expiration date, shift code, counter, with variable data fields and even logos, in your choice of eight font sizes.
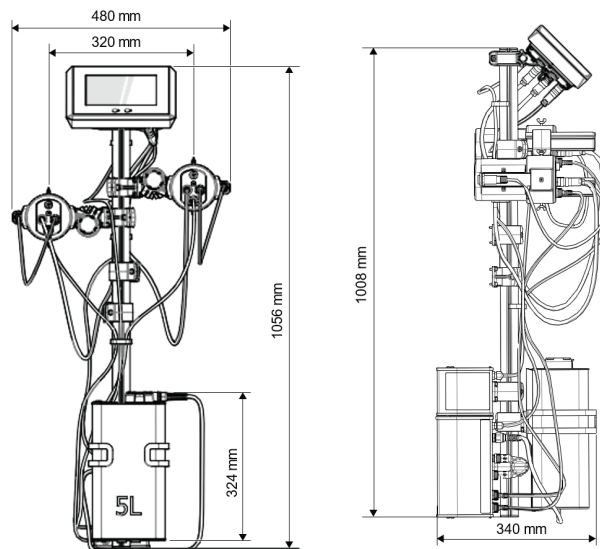
Print highly visible codes

- Use one printhead for simplicity or two, with the second printhead mounted on the opposite side of the case, to make the codes visible from all directions.

- With choice of the 7 or 16 nozzle printhead, print up to 56 mm high codes with a single printhead or stitch print two printheads together to create a code with up to 114 mm characters.

More productivity, less operator intervention

- 20 L ink canister allows for more product coding and can be changed during production thanks to the additional reservoir.

- Run your line up to 90 m/min to get more product out the door.

- Compliant to new global safety standard IEC 62368-1, and IP54 ingress protection ensuring safe and reliable operation even in a dusty environment and when splashed with water.

Print features

Water-based ink –for printing on porous paper, cardboard, plasterboard, or pulp

5 L or 20 L ink canisters, with ink level alarm, and indication of remaining ink on the screen

One or two printheads

7 nozzle printheads to print 1 line, maximum 24 mm

16 nozzle printheads to print up to 2 lines, and up to maximum 56 mm

(2) 7 nozzle printheads print 2 independent lines, each up to maximum 24 mm

(2) 16 nozzle printheads may print independent images, each up to maximum 56 mm

(2) 16 nozzle printheads also print a single interconnected image up to maximum 114 mm

Prints text, time, date, expiration dates, shift code, counters, image (png or bmp)

Supplied from external source, prints single variable via serial port, or multiple variables (up to 10 per printhead) via ethernet port.

Calendar feature for custom date formats

Stores at least 800 messages

Character width adjustment

Print delay for message placement

Top, side, opposite side, and bottom printing

2-20 mm print distance between the printhead and the object (<5 mm recommended for best print quality)

Print in any direction

Ink circuit: Internally regulated

No adjustments needed and no plant air needed

Character sets: Unicode capability: Latin, Arabic, Cyrillic, Chinese (simplified), Chinese (traditional), Greek, Hebrew, Japanese, Thai, etc.

Support for TrueType and BDF-font format

Font matrix: - 7N: 5x5, 7x5

- 16N: 5x5, 5x7, 12x10, 16x10

- (2) 7N: 5x5, 7x5, 12x7

- (2) 16N: 5x5, 7x5, 12x7, 16x10, 25x19, 32x24

Five printhead slant angles for finer resolution at reduced print heights

Software

CoLOS® V6 full support includes matrix layout design, promotional coding, OPC UA, PackML V3.0

Operations

Start or stop printing with only one button or automatically by I/O

Automatic print repetition on a single product

Operator interface: intuitive icon-based WYSIWYG 7" (177.8 mm) touchscreen

Interface available in 31 languages: Arabic, Brazilian, Bulgarian, Chinese (traditional), Croatian, Czech, Danish, Dutch, English, Farsi, Finnish, French, German, Greek, Hebrew, Hungarian, Indonesian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Romanian, Russian, Slovenian, Spanish, Swedish, Thai, Turkish, Vietnamese

3 user levels (operator, advanced operator, and administrator)

Full message editor included

Instructions can be given in one language while messages can be printed in another language and/or character set

Import/export jobs and printer settings through USB

Direct purge button function on controller for convenient cleaning

Supplied as complete functional system 'out-of-the-box'

Other characteristics

Print speed: manual set or use optional encoder for speed detection

Multiple I/O for message select, or conveyor stoppage output on printer error, etc.

RS232 input (DB9 connector, up to 115,200 bits per second) to support variable data update

LAN (Ethernet, RJ45 connector, 10/100 Mbps) including Ethernet protocol support

Optional external signal beacon

Gregorian, Julian, and Hijri calendars

Operating temperature: 5° to 40° C (41° to 104° F)

Weight: Controller 1.3 kg; 7N printhead: 0.46 kg; 16N printhead 0.89 kg

Humidity: From 10% to 90% without condensation

Ingress protection class: IP54

Power supply: 100/240 VAC, 50-60 Hz, 0.73-0.34 A (printer with 2 printheads consumes 70 W max)

Included: Printer with 7" color touchscreen, support beam, printheads as ordered with brackets, 1 m printhead cable(s) and 1.5 m ink tube(s), 5 L canister holder, sensor bracket, power supply, startup kit, safety manual, installation guide, DVD with instruction and user manuals

Accessories: Status beacon, extension arm for long-reach printhead

mounting and top/bottom printing, photo sensor (standard or reflective), sensor cable, pulse encoder and encoders for harsh environments, remote interlock cable for conveyor output, stainless steel printhead stand

Remote services

Our intelligent self-support solution. Live helpdesk support with remote video capabilities

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