

## DROP-ON-DEMAND VALVEJET

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 in several colors for porous, semi-porous and non-porous surfaces or products. Its extended ink capacity enables you to maximize production uptime while its reserve tank allows for consumable changes without stopping your line.

## Simply install, design, and print

- **Made to fit on any line**

The compactness of this coder makes it the perfect solution for some of the most inaccessible production lines and environments. Printing on a variety of packages and materials (lumber, wall board, etc.), it easily integrates with other equipment via I/O connection for message select, error output, and weight scale integration.

- **Effortless image creation with 7" color touchscreen**

Using intuitive icons, operate and design codes in your local language with Latin, Arabic, Cyrillic, Chinese, Greek, Hebrew, Thai, etc. characters.

- **Your product, your print**

Identify your products with your choice of static text, date, time, expiration date, shift code, counter, and even logos, in your choice of eight font sizes.



Complete, compact and reliable

## Print highly visible codes on a variety of substrates

- **Improve readability**

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.

- **Flexibility to print on a variety of materials**

Choose from a wide ink offering, in black or color, for your porous or non-porous packaging or materials such as cardboard, coated cardboard, plastic, glass, metal, PVC, and wood. Codes will remain readable even in the most challenging storage conditions.

- **Reduced logistics errors with large characters**

With your choice of the 7 or 16 nozzle printhead, print up to 56 mm high codes with a single printhead or stitch print with two printheads together to create a code with up to 114 mm characters. Message will be legible from afar helping to simplify internal logistics and avoid errors.



Easy-to-read codes

## More productivity, less operator intervention

- **Add ink without stopping your line**

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

- **Increased throughput**

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

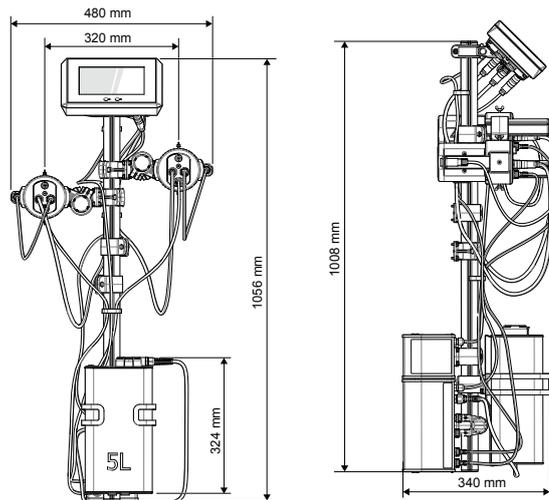
- **Constructed to be IP54 compliant**

Ensures reliable operation even in a dusty environment and when splashed with water.



Change ink canister without stopping the printer

# 4700 - Specifications



## Print features

- 4 water-based ink colors – black, red, blue, and clear (UV visible) for printing on porous paper, cardboard, plasterboard, or pulp; 2 propanol-based colors – black and red for printing on non-porous coated paper; red ethanol-based for printing on wood; and black ethyl acetate-based for printing on non-porous high gloss coated surfaces, plastic, HDPE, cellophane, PVC, metal and glass
- 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)
- Prints variables supplied from an external source via the serial 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

## 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

- Manual set or optional encoder for print 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)
- Optional external signal beacon
- Gregorian, Julian, and Hijri calendars
- Operating temperature: 5° to 45° C (41° to 113° 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

We reserve the right to amend the design and/or specifications of our products without notice.

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