

## 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.



## 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.



## 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.

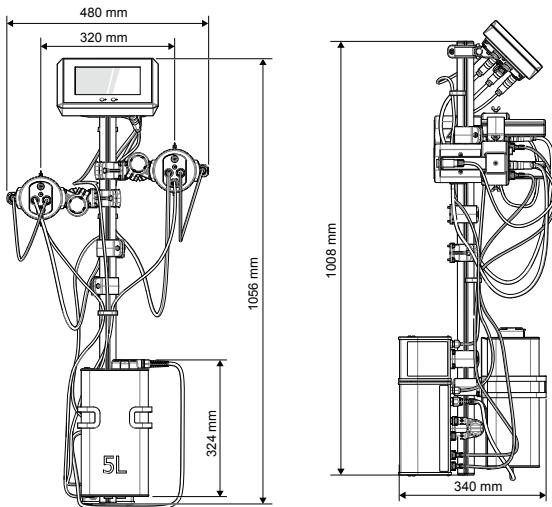
■ **Constructed to be IP54 compliant**

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

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

## 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 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