



Thermal inkjet 1050



Industrial printing made easy

Designed to be a mid-volume, low maintenance, easy-to-operate printer, the 1050 thermal inkjet coder produces high-resolution text, logos, graphics and 100% scannable barcodes.

Your benefits

- Flexible printhead options. Print codes from 12.7 mm up to 50.8 mm high.
- High speed printing of serialized barcodes for product promotion and traceability.
- Easy to use. 177.8 mm touch screen with intuitive WYSIWYG interface for simple set-up.
- Low maintenance snap-in and out cartridges for no-hassle reliable printing.

Product features

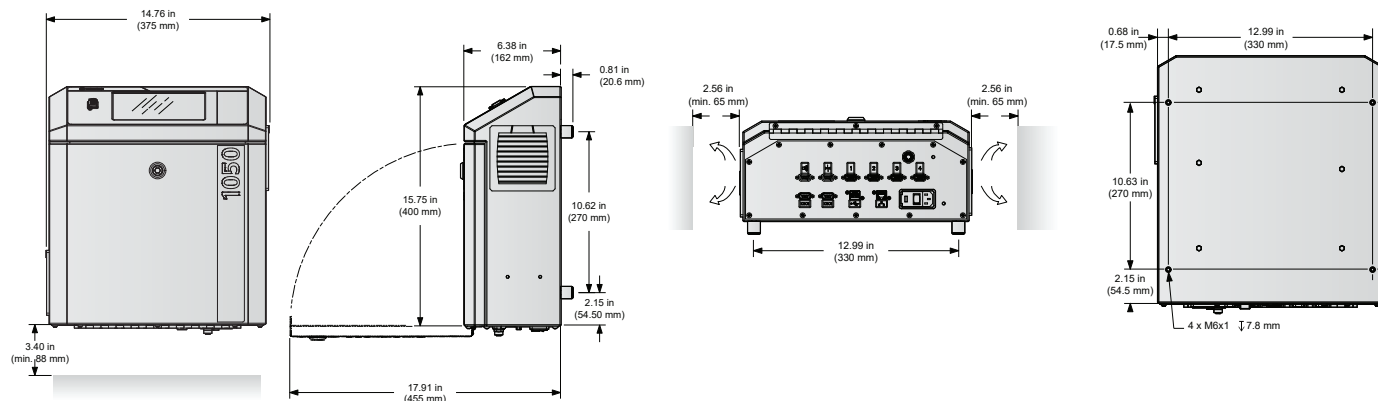
Scannable high-resolution codes printed at high speeds

- High Quality text, logos and high-density graphics
- 100% Readable 1D and 2D barcodes at high production rates.
- Precision print control variable dpi from 1 to 600 dots per inch for optimized barcode printing.

Flexible and industrial

- Suitable for dusty, humid and corrosive environments.
- Quick setup portable design for efficient line changes.
- Secure operation three levels of menu-driven accessibility.
- Maximize uptime reduce TCO with 680 ml or 1360 ml bulk ink delivery module - aqueous inks only.
- Minimize ink consumption with draft mode feature and variable print density.
- Centrally manage codes create images and network printers with optional **CoLOS®** software.

1050 specifications



Line speed/Resolution

Maximum line speed 201 m/min (660 ft/min)

Maximum resolution 600 x 600 dpi

Print features

Static text, user inserts, date/time stamps, shift codes, counters,

bitmaps, conditional bitmaps, and variable data

Windows True Type fonts

Barcodes 1D: Codabar, Code 128, Code 39, Code 93, EAN8, EAN13, EAN128, Interleaved 2 of 5, Pharmacode, Plessey, UPC -A, UPC -E

Barcodes 2D: Aztec, Data Matrix, Maxi Code, Micro QR Code, PDF417, QR Code, QR Code 2005

Additional barcodes available upon request

Printheads & mounting configurations

There are several printhead and mounting options available. Please contact a Markem-Imaje Applications Engineer for further assistance in selecting the appropriate components.

Controller

177.8 mm (7") touch screen interface

WYSIWY G template and print preview

3 levels of menu-driven security

Workflow manager allows administrator to customize print process

Industrial solid-state electronics with no moving parts

1 x Ethernet Ports, 2 x USB Ports, 2 x RS-232

Industrial stainless steel enclosure

Supports up to (4) 12.7 mm (1/2") heads, (2) 25.4 mm (1") heads or (1) 50.8 mm (2") head

Encoder and sensor ports

110-240 VAC, 50/60 Hz, 1.3A

Sensor Pin Out: P3-Hi (PnP), P6-GND, P7-Low (NPN), P8-12VDC

Bulk ink option available

Operating temperature:

- Printer – 10 to 40 °C
- Inks – Aqueous 10-40 °C (except 10068196-S at 5-40 °C), solvent 15-35 °C
- Inks may work outside these ranges depending on the application and environment

Humidity: 0-80% RH (non-condensing)

Software

CoLOS® Enterprise

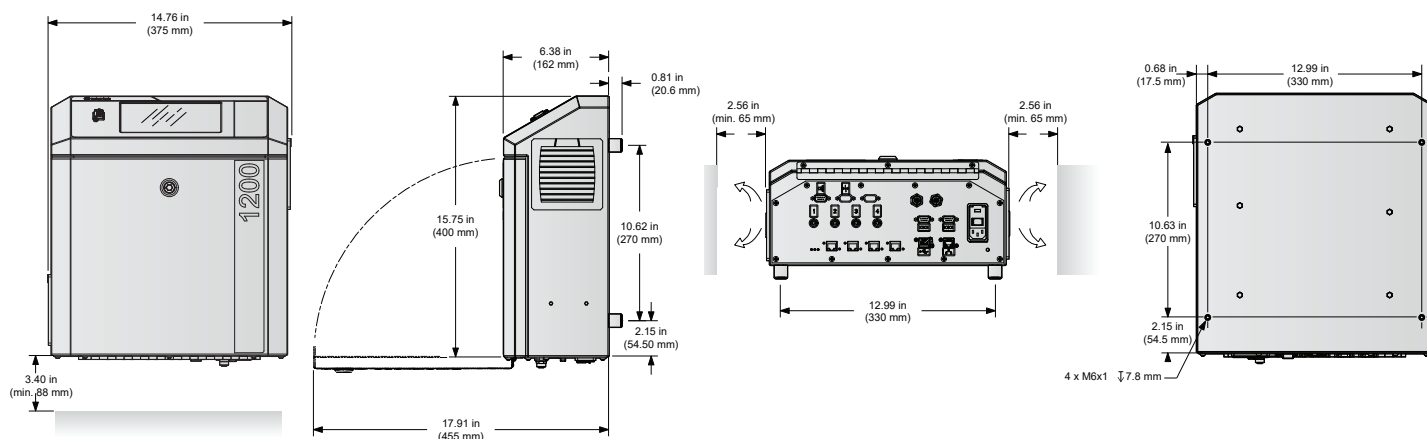




A large, industrial-grade digital color copier with a metallic finish. It features a large touchscreen display on the top left showing a software interface. A purple vertical stripe on the right side prominently displays the number '1200'. The Markem-Imaje logo is visible in the bottom left corner.

- Fast and easy printing on secondary packages.
- Quick setup. Get your packaging line up and running faster with compact portable design.
- Maximize uptime. Low maintenance snap-in and out cartridges for no hassle reliable printing.
- No computer or software required system. On board image creation, job edit and select; simple, intuitive, WYSIWYG 177.8 mm touch screen user interface.
- Clean operation. Clean and controlled ink flow with bulk inks from patented air regulation eliminates ink messes.

1200 specifications



Line speed/Resolution

Maximum line speed 201 m/min (660 ft/min)

Maximum resolution 600 x 600 dpi

Print features

Static text, user inserts, date/time stamps, shift codes, counters,

bitmaps, conditional bitmaps, and variable data

Windows True Type fonts

Barcodes 1D: Codabar, Code 128, Code 39, Code 93, EAN8, EAN13, EAN128, Interleaved 2 of 5, Pharmacode, Plessey, UPC-A, UPC-E

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Additional barcodes available upon request

Printheads & mounting configurations

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Controller

177.8 mm (7") touch screen interface

WYSIWYG template and print preview

3 levels of menu-driven security

Workflow manager allows administrator to customize print process

Industrial solid-state electronics with no moving parts

1 x Ethernet Ports, 2 x USB Ports, 2 x RS-232

Industrial stainless steel enclosure

Supports up to two 101.6 mm or four 50.8 mm heads

Encoder and sensor ports

110-240 VAC, 50/60 Hz, 1.3A

Sensor Pin Out: P3-Hi (PnP), P6-GND, P7-Low (NPN), P8-12VDC

Bulk ink option available

Operating temperature:

- Printer – 10 to 40 °C
- Inks – Aqueous 10-40 °C (except 10068196-S at 5-40 °C), solvent 15-35 °C
- Inks may work outside these ranges depending on the application and environment

Humidity: 0-80% RH (non-condensing)

Software

CoLOS® Enterprise



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.

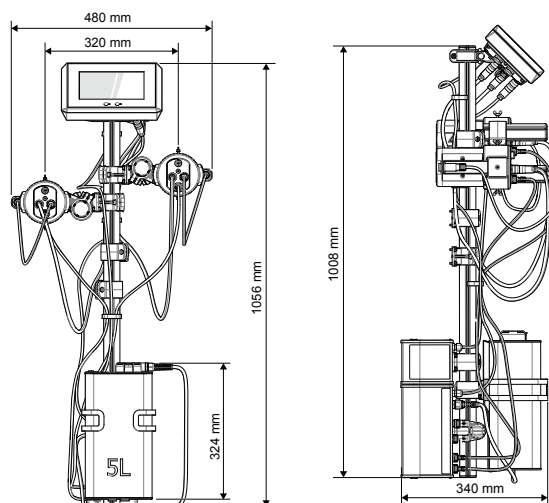
■ Constructed to be IP54 compliant

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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a  company

To learn more, visit www.markem-imaje.com



markem-imaje

a **DOVER** company



5940 G | GREATER throughput,
high-quality codes

Touch Dry® High Resolution Inkjet Coders

Printer Intelligence | Packaging Intelligence | Brand Intelligence

The 5940 G sets the standard of coding quality, compliance, operational efficiency and reduced total cost of ownership (TCO) with a sustainable solution. Greater throughput and compliant barcodes including GS1-128 and Digital Link.

Your challenges

- Achieving high quality, compliant packaged product without the hassle and added cost of labels.
- Finding reliable equipment that is easy to integrate, operate and maintain

Our solution

The piezo inkjet drop-on-demand printer offers a faster return on investment by boosting production throughput while enabling manufacturers to improve their supply chain management through traceability and brand protection.

That's printing intelligence beyond the mark.

Key benefits

- Superior coding solution ensures readability and compliance
- A solution designed for increased availability and production output
- Legendary 5000 series advantages: a sustainable investment



Superior coding solution ensures readability and compliance

Proven code quality made even better with patented Intelli'Flow® technology

Intelli'Flow® technology keeps the printhead jets clear by preventing ink and dust buildup through an innovative air flow design ensuring scannable and well-defined codes and the **Intelli'Flow®-M** printhead, with appropriate material handling, achieves **passing barcodes at magnification rates as fine as 34%**.

Highest quality codes for GS1 compliance, including GS1-128 and Digital Link

For C grade or better barcodes, trust our **Touch Dry®** inks that solidify on contact, unlike liquid inks that lose resolution by spreading along corrugate fibers. Achieve greater contrast barcodes with our exclusive range of high optical density inks. Our portfolio of colored inks are offered to further emphasize your brand.

Code verification via advanced vision inspection

You need your coding to be highly reliable. Our proven verification and automated inspection solutions ensure you consistently ship high-quality readable, accurate codes.



Maximized uptime thanks to robust design and easy maintenance



A solution designed for increased availability and production output

Maximize uptime thanks to robust design and easy maintenance

- The 5940 G has been **designed for serviceability—an average of 15-minutes***—setting new market standards and driving OEE improvements.
- **IP54-rated** controller improves dust resistance and performs in tough manufacturing environments. **Stainless steel cabinet** option available for wet environments to avoid oxidation and rust.
- **The 10" color touch user interface** has an intuitive menu structure for faster print selection and reduced downtime between jobs.
- **No plant air.** Air flow is generated internally rather than requiring external air compressors.

Faster ramp-up to increase production time—up to 6.9%**

Reduce start-up time by 67%† with patented reservoir heating or use the pre-shift automatic start timer.

43% less operator intervention to boost productivity

With a 75% larger ink container than most competitors, the 5940 G ensures 43% less operator intervention and there is no need to stop the line to refill ink—refill on the fly! With no solvents to mix, consumables management is clean and easy.

Efficiency and data integrity through greater automation

The 5940 G supports 1D and 2D scanners for lookup and verification, comes standard with five inputs and five outputs, all programmable. Simple integration with PLCs and enterprise databases.

Legendary 5000 Series advantages: a sustainable investment

Worry-free code management

Thanks to our Packaging Intelligence Suite powered by **CoLOS®**, message coding and job creation has never been easier. Expand your printer's capabilities with additional solutions to drive efficiency and maximize uptime while ensuring your packaging and coding is accurate and traceable.

Ensuring safety and enabling sustainability

Our **Touch Dry®** inks are non-hazardous, 100% Solvent Free. MEK Free, odorless and have No V.O.C.s (Volatile Organic Compound) comply with global food packaging guidelines and are supplied in recyclable PP-Polypropylene containers.

Reduce preprinted cases and labels

High resolution inkjet coders allow you to reduce your preprinted corrugate case inventory thanks to late-stage customization capabilities. Transition from expensive labels and avoid the disposal of label waste and cores.

*after root cause identification

**based on an 8-hour day

† compared to 52/5400 start-up time

5940 G – Specifications

Print features

- Printhead DPI
 - Vertical DPI: 200
 - Addressable jets: 256
 - Nozzles: 512

Print density	DPI - Ink drops per inch	Typical speed* (m/min)	Maximum speed** (m/min)
1	150 x 200	121.9	182
2	300 x 200	61	91
3	450 x 200	40.6	61
4	600 x 200	30.5	45
5	750 x 200	24.4	36

- Print densities available: 1 to 10
- Encoder scaling: Allows for conveyor line speed matching and for higher print speeds with a reduction in the print resolution
- Print area: Maximum/printhead print height: 65 mm (2.56") Print length: 3 m (118.11")
- Print fonts: Full TrueType fonts supported
- Printing of real-time clock (hr/min/sec), dates and auto updating best before dates and serial numbers
- Barcodes (linear and 2D): ITF, Code 39, Code 128, GS1-128, EAN 128, EAN 8, EAN 13, UPC-A, UPC-E, DataMatrix, RSS linear, RSS composite, QR, RSS 14, RSS expanded, PDF 417; with GS1-Digital Link compatibility

Software

CoLOS® Software & Packaging Intelligence Solutions

- Modular solutions for Message/Code management and Control, integration with ERPs/MES/WMS, Product inspection, Coding & Packaging integrity, Serialization & Aggregation, Production Control, Tracking and Consumer engagement.

Services and support

- Markem-Imaje offers the sector's most comprehensive array of digital, remote and on-site services to further empower our customers to maximize the return on their investment in our solutions. Designed to satisfy Industry 4.0 demands for increased customization and remote 24/7 digital assistance to reduce downtime, the portfolio of maintenance services is tailored according to user needs, skills and available resources.

Operations

Controller, options, and accessories setup

- Choose one, two, three, or up to four printheads
- Printhead orientations: Vertical, horizontal, and down jetting
- Up to 25° from vertical printhead tilt angle (tilted conveyor)
- Optional remote user interface: 10" color LCD touchscreen for image selection, print preview, variable data entry, diagnostics and system setup
- Web UI (user interface)
- Large central ink reservoir with umbilicals to printheads
- Ink replenishment: User prompted to add ink. Can be added without suspending printing
- Encoder options:
 - Internal: For fixed conveyor speed printing
 - External: For optimizing print quality (Recommended for bar code printing)
- Photo-edge sensors: Print (trigger) signal and a maximum of four per system

System operation

- Selectable multi-language menus
- Image preview
- Access levels password protection
- Three levels of user messages: Information, warnings, and errors
- Full system diagnostic menu

Interfaces and communication

- Communications interfaces/protocols: Ethernet, HIC, DCP, NGPCL, PackML
- File transfer and firmware upgrade by USB port
- Hardware I/O: 5 inputs/5 outputs, all programmable
- Standard scanner interfaces: 1D/2D scanner by power over ethernet (POE) and handheld scanner (USB)
- Remote keyboard interface

Limited daily maintenance

- Printhead daily care: Wiping, purging and test print capability

Other characteristics

- Weights Painted Steel (Standard):
 - Printhead (PH): 2.1 kg / 4.7 lbs
 - Controller: 1/2 PH - 50 kg. / 111 lbs., 3/4 PH - 52.6 kg. / 116 lbs.
 - Controller base with castors: 17.5 kg / 38.9 lbs
- Weights Stainless Steel (Option):
 - Printhead (PH): 2.1 kg / 4.7 lbs
 - Controller: 1/2 PH - 48.8 kg / 107.5 lbs, 3/4 PH - 51.0 kg / 112.5 lbs.
 - Controller base with castors: 18.0 kg / 40 kg
- **Touch Dry®** hot melt inks available in various series, colors packaged in bottles

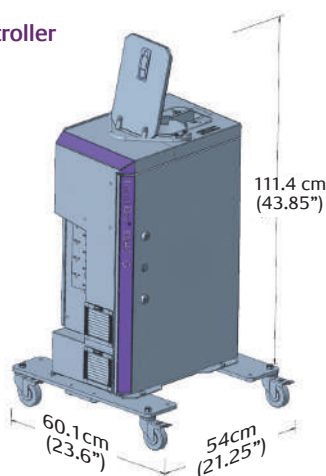
System	Typical operating power	Power during start-up
1 head	250 watts	1250 watts
2 heads	375 watts	1400 watts
3 heads	500 watts	1500 watts
4 heads	600 watts	1700 watts

- Electrical and environmental:
 - 1-2 PH systems 90-240 VAC, 50/60 Hz
 - 3-4 PH systems 200-240 VAC, 50/60 Hz
- Operating environment of 0 to 40° C (32 to 104° F)
- Standard Cabinet: Operating environment of 0 to 40° C (32 to 104° F)
- Stainless Steel Cabinet: Operating environment of 0 to 35° C (32 to 95° F)
- IP54 (cabinet only)
- Manuals: Safety manual included, all other manuals are accessed via **Markem-Imaje** website
- Local language versions for the color user interface

Options

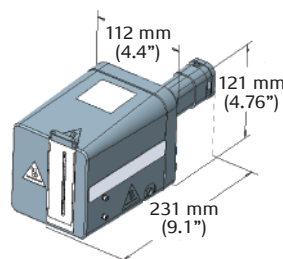
- Sturdy printhead slide assembly for best print quality, allowing for misshapen boxes
- 10.1" Remote user interface (RUI)
- 5 light signal tower assembly with audible alarm
- Scanners: 1D and 1D/2D scanners

Controller

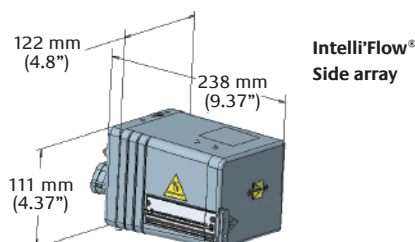


Printheads

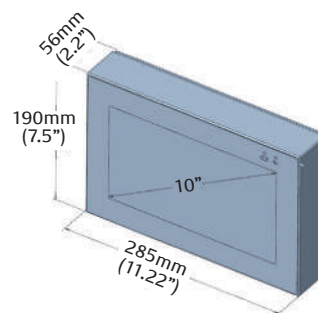
Standard IntelliFlow



IntelliFlow® Side array



Remote user interface



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markem-imaje.com

4500 | INTUITIVE CASE CODING FOR UNMATCHED VALUE

Drop on Demand Valve Jet

Run it with the tip of your finger

Highly responsive color touch screen makes daily operations immediate and simple

Straightforward operation

Easy operation at your fingertips and in your local language thanks to its simple, intuitive, WYSIWYG 5.7 inch touch screen user interface.

More uptime in daily use

Clean plug and play consumable changeover in less than 30 seconds, with no daily maintenance required.

Extended connectivity for enhanced ease of use

Download or back up production data via USB stick. Avoid non-coded boxes with embedded conveyor stop output.



Start printing 30 minutes after you open the box.
Step 1: Press ON, Step 2: Select job, Step 3: Press PRINT.

Simple installation & integration

Buy it, unwrap it and install it with ease even in the dustiest and most humid environments (IP54)

Fits on any line

Compactness and head positioning options make it ideal for hard to access production lines, variety of package sizes and environments.

Out of the box and directly on your line

No need for special training or plant air to install. Start printing 30 minutes after you open the box.

Smart consumable system. No set-up required.

Consumable management is automatic, clean and fully secure.

Ideal for seasonal use

Can be easily stored for weeks and restarted immediately (up to 3 months and without flushing).



Multiple characters and logos in several languages.

Unmatched value

Identify your boxes with codes up to 56 mm high

Prevent product recalls and waste through consistent quality print

Latest printhead generation ensures text and logos are legible from a distance thus simplifying internal logistics.

Production uptime through its enhanced drop control system: More than 39,000 cartons* with one 1L ink bottle

Bottle can be replaced quickly for maximum uptime. 0,5L bottle also available.

Choice of colored inks

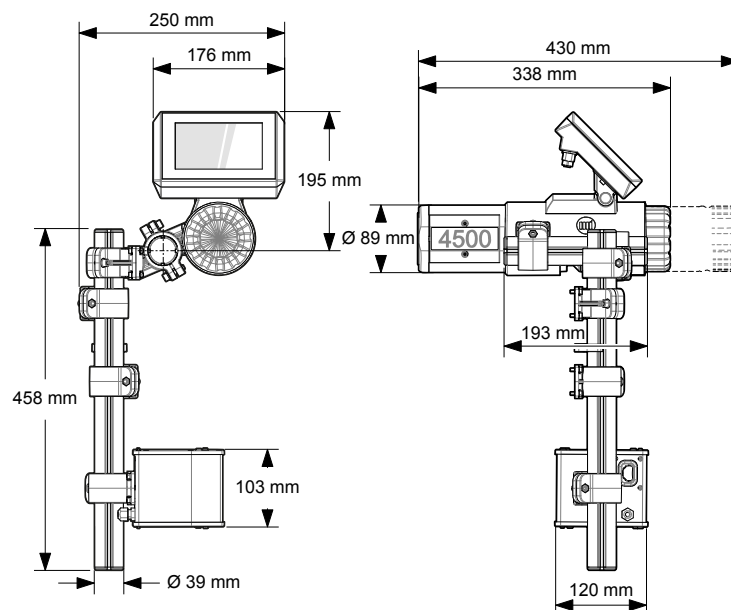
Choose between black or red for your porous packaging (cardboard, paper). Code will remain readable even in the toughest storage conditions.



39,000 coded cartons with just one 1L ink bottle.

*Based on a standard application of 16 characters, 7N-13mm dot size 3

4500 - Specifications



Print features

- 2 water based ink colors – black and red – for porous substrates
- 0.5 or 1L ink bottle, with ink level alarm. Indication of remaining ink on the screen
- 7 nozzle print heads to print 1 line of 13 mm or 24 mm
- 16 nozzle print heads to print 1 line of 29 or 56 mm or 2 lines of 13 or 24 mm each
- Prints text, time, date, expiration dates, shift code, counters, images (png or bmp)
- Calendar feature for custom date formats
- 200 messages minimum of 100 characters each
- Character width adjustment
- Print delay for message placement
- Top and side printing
- 2-20 mm print distance between the printhead and the object
- Print direction from right or left
- Print speed up to 60 m/min
- Ink circuit:
 - Internally regulated
 - No adjustments needed. No need of plant air
- 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, 12x7, 16x10

Operations

- One button only, to activate/deactivate print
- Operator interface: intuitive icon-based WYSIWYG 5.7" (144.8 mm) touch screen
- Interface available in 32 languages: Arabic, Brazilian, Bulgarian, Chinese (simplified), Croatian, Czech, Danish, Dutch, English, Finnish, Greek, Hebrew, Hungarian, Indonesian, Italian, Japanese, Korean, Norwegian, Farsi, French, German, Polish, Portuguese, Romanian, Russian, Slovenian, Spanish, Swedish, Taiwanese, 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 built-in print speed detection
- Object detection by integrated photocells
- Conveyor stoppage output on printer error
- Optional external signal beacon
- Gregorian, Julian and Hijri calendars
- Operating temperature: 5° to 45° C (41° to 113° F)
- Weight: approx. 4.5 kg (9,92 lbs) without ink bottle
- Humidity: from 10 to 90% without condensation
- Protection class: IP54
- Power supply: 100/240 V AC, 50/60 Hz. External AC/DC power pack. 24 V (DC): 1.5 A
- Included: printer, brackets, power supply, cable, DVD-Rom with instruction and user manuals

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

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a  company

To learn more, visit www.markem-imaje.com

High resolution hot melt inkjet printers ■ ■ ■



Our technology ■ ■ ■

The 5800 large character inkjet printer represents the next generation of Touch Dry® Hot Melt technology delivering a superior print quality coding solution for your corrugate cases, trays and wrapping films.

Markem-Image Touch Dry® Hot Melt inks are solvent free and environmentally friendly. Codes and images never bleed or fade, dry on contact and deliver 100% readable, GS1 compliant codes.

Your benefits ■ ■ ■

Performance – Touch Dry® Hot Melt inks print on a wide range of substrates and in environments ranging from 0 to 40 °C. The printer, boasting print speeds up to 120 meters/minute, can be equipped with optional printhead slide assembly optimizing both print gap control and print quality.

Flexibility – Cutting-edge communication capabilities include color touch screen, Ethernet, USB, and web user interface, providing increased flexibility and functionality to end users, integrators and OEMs. Optional CoLOS® Enterprise networking software is available for central management of data from remote databases or ERP systems. Compact, modular design for stand-alone operation or complete integration.

Efficiency – Advanced printer design provides quick start up and minimizes overall energy consumption. Uptime features include a unique programmable self maintenance system and ink reloading capability during operation. Touch Dry® solid ink blocks are easily handled for simple and trouble free operation.



markem·image

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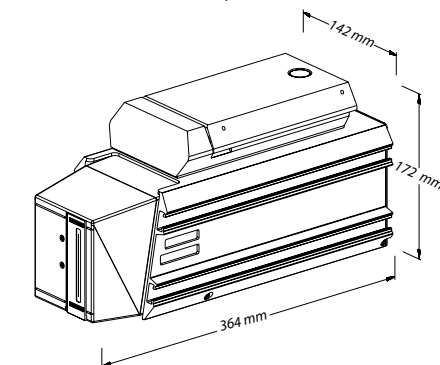
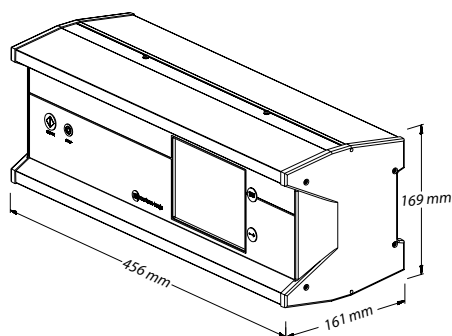
5800 specifications ■ ■ ■

Print features ■ ■ ■

- Printhead dpi
Vertical dpi: 200
Addressable Jets: 256
Nozzles: 512

Print Density	DPI - ink Drops per Inch	Maximum speed (meters/min)
1	150 x 200	120
2	300 x 200	60
3	450 x 200	40
4	600 x 200	30
5	750 x 200	24

- Print densities available: 1 to 8
- Encoder scaling: Allows for conveyor line speed matching and for higher print speeds with a reduction in print resolution
- Print area: Maximum/printhead print height: 65 mm Print length: 1,000 mm
- Print specification: Full true type font supported
- Printing of real-time clock (hr/min), dates and auto updating best before dates and serial numbers
- Barcodes (Linear and 2D): ITF, Code 39, Code 128, EAN 128, EAN 8, EAN 13, UPC A, UPC E, Data matrix, RSS linear, RSS composite, QR, RSS 14, RSS expanded, PDF 417



Operations ■ ■ ■

- 5800: Up to two printheads
- User interface: Color LCD touch screen used for image selection, variable data entry, diagnostics and system setup.
- Selectable multi-language menus
- Image preview
- Access level password protection
- Full system diagnostic menu
- Printhead orientations: Vertical or up to 20° of process direction
- Software:
 - CoLOS® Create image design software included
 - CoLOS® Create Pro (Optional)
 - CoLOS® Enterprise for networking (Optional)
- Encoder options:
 - Internal: For fixed conveyor speed printing
 - External: For optimizing print quality Recommended for barcode printing
- Photo-edge sensors: Print (trigger) signal and a maximum of two per system
- Software interface:
 - USB for downloading images, settings and data files
 - Ethernet (including web user interface)
 - Communications protocols for PCs, PLCs and packaging machines
 - Compatible with Weihenstephan standard
- Hardware outputs: (3) Fault relay
- Ink replenishment: User prompted to add ink; can be filled without the need to suspend printing
- Interfaces: Hand held product select scanner

Other characteristics ■ ■ ■

- Weight: Printhead: 7.2 kg
Control box: 11.2 kg
- Touch Dry® hot melt inks: Available in various series, colors
- Electrical and environmental:
100-240 V 50-60 Hz

System	Measured Operating Power	Peak Power During Warm-up
1 head	150 watts	600 watts
2 heads	250 watts	600 watts
3 heads	400 watts	600 watts
4 heads	500 watts	600 watts

CE Marked. ETL listed, conforms to ANSI/UL 60950, 3rd edition (2000); CAN/CSA No. 60950-00, 3rd edition (2000)

- Operating environment of 0 to 40 °C (32 to 104 °F). IP42 (controller only)
- Manuals: Instruction manual and CD-ROM User Guide (includes spare parts, options, and accessories Catalog)
- Local language versions for the color user interface
- Regional telephone technical and product support
- Web site technical and product support

Options ■ ■ ■

- Printhead slide assembly
- Signal tower assembly
- Post print barcode scanner assembly
- TU Look-up assembly
- Optional expansion unit (OEU) - support 11 inputs, 8 outputs and 1 additional scanner port
- Printer service kits
- Preventive maintenance kits and contracts
- On-site product and tech support

To learn more, visit www.markem-image.com



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