



markem·imaje

a **DOVER** company

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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



Maximized uptime thanks to robust design and easy maintenance

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.



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.



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

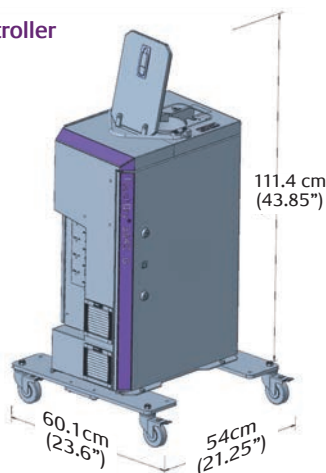
System	Typical operating power	Power during start-up
1 head	250 watts	1250 watts
2 heads	375 watts	1400 watts
3 heads	500 watts	1500 watts
4 heads	600 watts	1700 watts

- 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

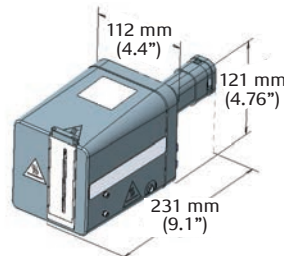
- Sturdy printhead slide assembly for best print quality, allowing for misshapen boxes
- 10.1" Remote user interface (RUI)
- 5 light signal tower assembly with audible alarm
- Scanners: 1D and 1D/2D scanners

Controller

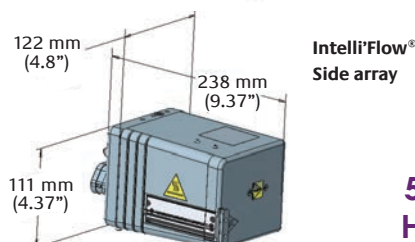


Printheads

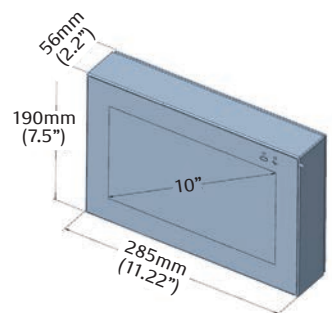
Standard IntelliFlow



IntelliFlow® Side array



Remote user interface



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