



Professional Packaging Systems

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Markem-Imaje 5940 G High-Resolution Inkjet Printer



At a Glance

- Highest quality codes for GS1-128 compliance
- Reduce preprinted corrugate case inventory with late-stage customization
- No need to stop the line to refill ink

Pricing

Call us at 888-318-0083

Many options are available. Complete details will need to be finalized to determine requirements and final system costs. Work with your Pro Pac representative to build this machine to your specifications.

Superior Coding Ensures Readability and Compliance

The Markem Imaje 5940 G provides coding quality, compliance, operational efficiency and reduced total cost of ownership (TCO) with a sustainable solution.

Proven Code Quality Made Even Better with Intelli'Flow Technology Intelli'Flow technology keeps the printhead jets clear by preventing ink and dust buildup through an innovative air flow design; additionally, a filtering mechanism prevents air bubbles from forming in the ink during high-speed printing ensuring scannable and well-defined codes.

Highest Quality Codes for GS1-128 Compliance For C grade barcodes trust our Touch Dry inks that solidify on contact unlike liquid inks that lose resolution by spreading along corrugate fibers. And our exclusive high optical density inks deliver increased contrast on barcodes. A variety of colored inks are available to further emphasize your brand.

Code Verification via Advanced Vision Inspection You need your coding to be rock-solid reliable. Our proven verification and automated inspection solutions ensure you consistently ship high-quality readable, accurate codes.

Maximize Uptime, Increase Production, Simplify Maintenance

Designed for Serviceability An average of 15-minutes — setting new 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.

10" Color Touch User Interface 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 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.

Boost Productivity With a 75% larger ink container than most competitors, the 5940 G ensures 43% less operator intervention. 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.

Greater Automation Provides Efficiency and Data Integrity The 5940 G supports 1D and 2D scanners for lookup and verification, comes standard with five inputs and five outputs, all programmable. Option to expand to an additional five inputs and five outputs, also all programmable. Can integrate with PLCs and corporate databases.

Advantages

Worry-Free Code Management Packaging Intelligence Suite powered by CoLOS provides simple message coding and job creation. Expand your printer's capabilities with additional solutions to drive efficiency and maximize uptime while ensuring your packaging and coding is accurate and traceable.

Environmentally Friendly Touch Dry inks are free of odors and Volatile Organic Compounds (VOC), comply with global food packaging guidelines and are supplied in highly recyclable Polypropylene (PP) containers.

Reduced Preprint and Labels High-resolution inkjet coders reduce your preprinted corrugate case inventory with late-stage customization capabilities. Avoid the use of expensive labels and avoid the disposal of label waste and cores.

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 - 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, HJC, DCP, NGPCL, PackML

File transfer and firmware upgrade by USB port

Hardware I/O: 5 inputs/5 outputs, all programmable

Optional integrated expansion I/O board for an additional 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

Print Features

Print density	DPI - ink drops per inch	Typical speed (m/min)	Max 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 Head: - Vertical DPI: 200 - Addressable jets: 256 - Nozzles: 512

Print densities: 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: 3,000 mm (118.11").

Print Specification: Full true type fonts supported.

Time, date, serial: 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, EAN 128, EAN 8, EAN 13, UPC A, UPC E, Data Matrix, RSS linear, RSS composite, QR, RSS 14, RSS expanded, PDF 417.

Other Characteristics

System Heads	Operating Watts	Peak Warm Up Watts
1	250	1250
2	375	1400
3	500	1500
4	600	1700

Printhead Weight: 7.2 kg

Control Box Weight: 11.2 k

Touch Dry Hot Melt Inks: Available in various series, colors packaged in bottles

Electrical: 100-240 V, 50-60 Hz

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 (Optional): - 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

Electrical: 90-240VAC, 50/60Hz

Operating Environment: 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

Languages: 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

Additional I/O: 5 inputs, 5 outputs, all programmable

Material Types

Polystyrene foam

Plastic films

Dispatch boxes

Decorative labels

Customized packages

Corrugate

Cardboard boxes

Industries

Soft drinks

Snack food

Pharmaceuticals

Pet food

Personal care
Oil and gas
Industrial components
Food
Extrusion
Electronics
Electrical
Egg
Dairy
Cosmetics
Construction
Confectionery
Beverage
Beer & cider
Automotive
Aerospace

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