



markem·imaje

a DOVER company



Touch Dry® high-resolution inkjet coders 5800



Your challenges

- You require compliant packaged product with high-quality, traceable codes without the hassle and mess of liquid inks
- You are ready to make the switch from labels to direct printing
- You need a reliable, easy-to-operate and maintain printing solution
- You need a solution that will support your sustainability goals
- You need multi-color printing capability

Our solution

High-contrast barcodes, text and graphics for corrugated cases and secondary packaging

Companies large and small trust the Markem-Imaje 5800 for direct printing of corrugate case packs, trays, shrink-wrap, flexible film, rigid packaging and other industrial applications.

Markem-Imaje piezo inkjet drop-on-demand printers improve ROI with direct printing and late-stage customized printing, eliminating the need for labels and reducing preprinted case inventory all while enabling manufacturers to improve their supply chain management through advanced traceability and brand protection.

5800 printers are paired with wax-based **Touch Dry®** inks, available in a variety of colors, that solidify on contact and provide accurate, stable, high-quality marking on secondary and select primary packaging. Resulting in reliable codes, text and graphics that never bleed or fade. **That's printing intelligence beyond the mark.**

Key benefits

Trusted performance and quality

- **Compliant 1D and 2D barcodes** including GS1-128 and Digital Link. Our unique **Touch Dry®** inks produces high-quality, high-resolution barcodes that achieve Grade C, or better, on brown corrugate and deliver excellent scannability.
- **Sustainably designed, Touch Dry®** inks are classified as non-hazardous, 100% solvent free, and MEK Free providing a safer workplace environment.

Designed for productivity

- **Maximize productivity** the 5800 provides reliable printing at speeds up to 172 meters/minute and ink is replenished, on the fly, without stopping the production line.
- **Simple operation** with our intuitive touch screen user interface and optional web UI results in faster job changes.
- **Less operator intervention** with programmable auto-purge, auto-startup and auto-shutdown technology.

Increased flexibility

- **Easy line integration** with one or two printheads, the 5800 offers multiple jetting orientations; vertical, tilt (up to 30° in either direction), and down-jetting. The UI is embedded in the compact controller unit
- **Customized for your production line.** With a wide variety of product configuration options including scanners, cameras, encoders, printhead slide assemblies, stands and more.
- **Connect to your ERP.** Use Markem-Imaje **CoLOS®** software to integrate with production lines, databases, or ERP systems and automatically populate image designs from a centralized database.

5800 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	172
2	300 x 200	61	86
3	450 x 200	40.6	57
4	600 x 200	30.5	43
5	750 x 200	24.4	34

- Print densities available: 1 to 8
- 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 (39.3")
- Print specification: Full true type fonts supported
- Printing of real-time clock (hr/min/sec), dates and auto updating best before dates and serial numbers
- Barcodes (1D and 2D): ITF, Code 39, Code 128, GS-128, Digital Link, EAN 128, EAN 8, EAN 13, UPC-A, UPC-E, DataMatrix, RSS linear, RSS composite, QR, RSS 14, RSS expanded, PDF 417
- SSCC (Serialized Shipping Container Codes)
- Voice pick code capable

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 or two printheads for standard operation
- Printhead orientations:
 - Vertical and down-jetting
 - Up to 30° from vertical printhead tilt angle (tilted conveyor)
- User interface: Color LCD touch screen used for image selection, variable data entry, diagnostics and system setup.
- Optional web UI (user interface)
- A multitude of local language versions for the user interface
- Ink replenishment: User prompted to add ink. Up to 2 pucks (1 Puck = 145ml) can be added and there is no need to stop the line
- Encoder options:
 - Internal: For fixed conveyor speed printing
 - External: For matching the line speed and to optimize print quality (Recommended for barcode printing)
- Photo-eye sensors (NPN or PNP): Sense the leading or trailing edge of the package to give print (trigger) signal and a maximum of two per system

System operation

- Selectable multi-language menus
- Image preview
- Access level password protection
- Full system diagnostic menu
- Auto-purge – programmable by print count or time based
- Programmable auto-startup and auto-shutdown

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

Communication and interfaces

- Ethernet (including web user interface)
- Communications protocols for PCs, PLCs and packaging machines
- USB for downloading/uploading images, settings and data files
- Hardware outputs: (3) Fault relay (more with optional OEU)
- Interfaces: Handheld job select scanner

Other characteristics

- Weights:
 - Printhead: 7.2 kg. /15.87 lbs.
 - Controller: 11.2 kg. / 24.69 lbs.
- Full range of **Touch Dry®** inks for porous and non-porous applications offered in multiple black options and a large variety of colors. Available in multi-packs of 145ml pucks

System	Measured operating power	Peak power during warm-up
1 head	150 watts	600 watts
2 heads	250 watts	600 watts

- Electrical and environmental: 100-240 V, 50-60 Hz.
- Operating environment of 0 to 40°C (32 to 104 °F).
- IP42 (controller only)
- Manuals: Safety manual included, all other manuals are accessed via **Markem-Imaje** website

Options

- Printhead slide assembly
- Signal tower assembly
- TU Look-up assembly
- Barcode verification scanner assembly
- Handheld job select scanner
- Optional expansion unit (OEU) - support 11 inputs, 8 outputs and 1 additional scanner port
- Ink puck holder

