

HP Bulk Solvent Ink System

Reliable coding and marking with HP technology



The HP Bulk Solvent Ink System combines all the advantages of HP Thermal Inkjet (TIJ) 2.5 printhead technology with a robust and flexible bulk ink delivery system. The result is a complete system that meets the needs of high-volume printing applications on porous and non-porous substrates where superior print quality, low cost per code, and minimal user intervention are required.

Build your custom bulk solutions on proven technology

Maintenance-free, high uptime

- HP's reliable ink delivery system featuring the new solvent print cartridge with a built-in ink level sensor and a micro USB connector enables a maintenance-free, high-uptime production environment while delivering superior print quality.
- Large 400 ml ink cartridges enable longer print runs and fewer operator interventions.
- HP Smart Card ensures system health, performance, and safety with built-in intelligence.

Improved total cost of ownership (TCO)

- Modular and low-investment solvent bulk TIJ system with large ink and robust print cartridges creates a very strong alternative to competing technologies, helping you expand into new markets by reducing total cost of ownership.

Design flexibility

- Flexibility to design pressurized or gravity systems with one ink cartridge feeding a single print cartridge, or an array of print cartridges in both vertical and horizontal positions.
- The new air-pressurized system allows more freedom in positioning the ink cartridge.

Shorter time to market

- New and enhanced development kit, suite of proven components, and detailed reference documentation reduces product development time.
- Application engineer support is available when a trusted advisor is needed.

Easy to use

- New bulk system takes simple-to-use and clean HP Thermal Inkjet 2.5 technology to the next level with easy mounting of ink cartridges, hot swap capability, and simple replacement of print cartridges with the new removable print cartridge connector.



Ordering information

Product number	Product description
Components	
CQ803A	HP Smart Card Print Cartridge Stall
CQ802A	HP Smart Card Print Cartridge Driver Board
FOM04A	HP Bulk Ink Cartridge 50-meter Tube
FOL72A	HP Valve for Bulk Print Cartridge
Q2308-60015	HP Ink Cartridge Stall Assembly
FOM03A	HP Bulk Print Cartridge 25-meter Tube
FOL93A	HP Bulk Print Cartridge Connector Protector
CQ801B	HP Host Printer Smart Card Component
Print and ink cartridges	
FOL89B	HP 2580 Black Solvent Smart Card Bulk Print Cartridge
FOL91A	HP 2580 Black Solvent Smart Card Bulk Ink Cartridge, 400ml
3UB53B	HP 2590 Black Solvent Smart Card Bulk Print Cartridge
3UB52A	HP 2590 Black Solvent Smart Card Bulk Ink Cartridge, 400ml

¹Specifications are determined using HP internal testing procedures and HP print devices and media in various operating environments. Actual performance may vary depending upon the print device, media and environmental conditions.

²For food packaging regulatory compliance details and specified conditions of use, refer to the HP2580 Statement of Composition. To request a Statement of Composition, please contact SPS Customer Support: hp.com/go/spssupport

Learn more at
hp.com/go/oeminkjet

Technical specifications¹

	Print cartridge	Ink cartridge
Resolution	600 dpi	N/A
Nozzle count	300	N/A
Maximum firing frequency	18 kHz	N/A
Ink fill volume	N/A	400 ml
Print cartridge life	1200 ml	N/A
Operating conditions	15-35°C (59-95°F), 20 to 80% RH	15-35°C (59-95°F), 20 to 80% RH
Shipping/storage conditions	-10-25°C (14-77°F), 0 to 100% RH	-10-25°C (14-77°F), 0 to 100% RH
Altitude	Up to 4267.2 m	Up to 4267.2 m

HP 2580 and 2590 Black Solvent Bulk Inks

HP 2580 and 2590 black solvent inks deliver high-quality alphanumeric and barcode readable output, and comes with long decap and fast dry times to achieve high-productivity intermittent printing for industrial coding and other applications.

Food and pharma packaging regulatory compliance

HP 2580 solvent ink in the FOL89B print and FOL91A ink cartridges can be used to print product identification text and bar codes on the non-food contact surface of food packaging, in compliance with applicable regulations and commonly referenced industry standards in the EU, US, and other countries and regions, under specified conditions of use.² For many pharmaceutical printing applications, compliance with food contact materials regulations may be sufficient.

Proven components to meet your design objectives

Modular print cartridge stall

- Supports a 0.5-inch swath width and up to 600 dpi resolution
- Suitable for multiple printhead array configurations
- Print cartridges can be snapped in and out of the stall for easy replacement

Modular ink cartridge stall assembly

- Provides easy insertion of the ink cartridge, and proper electrical, mechanical, and fluidic connections
- Includes connector assembly, ink seal assembly, and ink stall

Pen Driver Board

- Ensures proper operation, firing, and protection of the print cartridge
- Onboard firing voltage regulation provides consistent firing energy, independent of print density
- Firing energy is programmable to provide optimal print cartridge performance and lifespan

Tubing

- HP's solvent ink-capable tubing helps establish secure connections between ink and print cartridges

Print cartridge connector protector and valve

- New connector protector eliminates the need to prime the tube for each print cartridge replacement
- Valve featuring 360° rotation assures a flexible and secure connection to the print cartridge

HP Smart Card

- Best-in-class, proven HP authentication helps you design a secure, high-performance system

HP Development Kit

- Includes components needed to quickly demonstrate solution options and explore design choices

