



HP TIJ 1.0 Transaction Print Cartridges

Enable robust, reliable performance in a small footprint



A small printing device can deliver big results—reliable, consistent print quality, day after day for mission-critical applications. HP print cartridges are specifically designed to fit tight spaces and can deliver trouble-free printing for check validation/processing, bank slip printing, desktop printing calculators, and more.

See high-quality, durable results

Look to proven HP printing technology for a solution you, and every end user, can count on. Non-contact, drop-on-demand HP Thermal Inkjet technology (TIJ) is a workhorse, providing robust, reliable performance. The technology is remarkably flexible—allowing printing on irregular substrates at variable distances and consistent print quality over the life of the cartridge—and prints are water- and fade-resistant¹.

Provide robust performance

The ink delivery system is designed to exceed the requirements of demanding mission-critical environments. The self-contained print cartridge is customer-replaceable with an easy snap-out/snap-in design.

Gain operational and cost efficiencies

Enable reduced operating costs. Built on HP's original Thermal Inkjet technology, these compact print cartridges enable low power consumption and robust performance. A simple nozzle-firing interface, print carriage assemblies, and HP technical design

documentation enable easy integration into a wide variety of printing devices.

Target customers

- Companies that produce printing devices for transaction and industrial printing
- Banks and other financial institutions

Applications

- Transaction printing
- Check validation systems requiring substrate flexibility, reliability
- Industrial printing
- Printing calculators with low power demands and a small footprint

Key highlights

Compact HP print cartridges, with Original HP dye-based inks, designed to provide quiet, reliable, robust performance and consistent print quality on common transaction and industrial substrates:

- Extremely reliable operation
- Quiet non-contact, drop-on-demand HP Thermal Inkjet technology
- Consistent print quality over the life of the print cartridge
- Compact, self-contained print cartridge enables low power consumption
- Customer-replaceable, snap-out/snap-in print cartridge design

¹ Fade- and water-resistance testing by HP Image Permanence Lab. Ink performance may vary based on media, printing system, and environmental conditions.

Technical specifications

Ink type	Original HP dye-based inks
Resolution	Up to 96 dpi
Nozzle count	12
Print swath	3.17 mm (0.125 in)
Maximum firing frequency	2.0 kHz for text; 1.0 kHz for graphics; horizontal firing recommended
Print cartridge dimensions	Approximately 36 x 28 x 25 mm (1.42 x 1.10 x .98 inches)
Estimated characters per cartridge	Approximately 750,000 characters ¹²
Number of electrical interconnect pads	13
Shelf life	30 months, in original packaging
Operating temperature	10 to 40° C / 50 to 104° F, 50% RH
Operating humidity	10 to 90% RH at 10 to 23° C / 50 to 73° F range 10 to 50% RH at 10 to 40° C / 50 to 104° F range
Storage temperature	-5 to 55° C / 23 to 131° F
Non-operating environment	-30 to 60° C / 22 to 140° F Altitude: 1 to 3000 meters Orientation: nozzles up or side

Ordering information

Product number	Product description
51604A	HP 51604A Black Print Cartridge
51605B	HP 51605B Blue Print Cartridge
51605R	HP 51605R Red Print Cartridge

Why choose HP?

You can trust HP to keep your printing running smoothly—we created the standard. Each and every HP print cartridge embodies nearly 3 decades of expertise, delivering 65 million print cartridges worldwide¹³. The result is an astounding quality level of 99.98%¹⁴ made possible at high volumes with fully automated production. You can count on Original HP print cartridges.

¹² Based on an average of 16 dots per character. May vary based on print-quality requirements.

¹³ HP C6602A and HP 51604A print cartridges.

¹⁴ According to HP internal customer satisfaction tracking, customer issue resolution is required only 0.02% of the time.

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