

# HP 108mm Printhead



Wide-swath bulk printing solution powered by HP TIJ 4.0 Printhead Technology. Say Goodbye to Stitching.



## Step into a wider world of possibilities

### Sample applications include:

- Secondary coding and marking (1D and 2D barcodes, graphics, and alphanumeric content, box identification data)
- Late-stage packaging (labels, hazard labels, box opening instructions, regionalization, and customizations)
- Wide-swath mail addressing (Addresses and barcodes on advertising mail)
- Specialty packaging
- Alternative to adhesive labels on manufacturing lines

1. Up to 7mm for small text and 10mm for large text at higher printing speed.  
2. Based on HP internal testing.

## Unlock the power of efficiency

The HP 108mm Printhead supports the needs of wide swath high-volume printing applications that demand high speed, high resolution, and longer throw distances up to 10mm<sup>1</sup>.

- Industry-leading resolution up to 1200 dpi and throw distance up to 10mm<sup>1</sup>.
- Unbeatable ease of use with minimal operator interventions.
- Low total cost of ownership and cost per print with bulk ink cartridges.
- The versatility of both vertical and horizontal printing.
- Print variable data at high speeds up to 183m/min or 600ft/min.
- Smart Servicing Solution to significantly reduce the need for pen servicing and provide decap time of 48 hours<sup>2</sup>.
- Supports 1 or 2 inks per printhead.

## Versatile printhead for high-throughput production

Experience true versatility with industry-leading resolution and throw distance up to 10mm<sup>1</sup> enabling flexibility of printhead positioning on the production line. The HP 108mm Printhead achieves the highest level of bar code scores at high printing speeds, as well as the required readability. Horizontal or vertical printing capability provides design flexibility for a range of applications.

## Smart Servicing Solution

Get clean, crisp print every time, even when the printhead is left uncapped for 24 to 48 hours<sup>2</sup>. Introducing Smart Servicing Solution, HP's patented micro-recirculation technology to reduce pen servicing and resolve decap issues, without the need for a service station. Guarantees fresh ink at the nozzle for every print!

## Competitive Cost of Ownership (TCO)

The 775ml Bulk Ink Cartridge and Printhead offer a compelling alternative to competing technologies delivering unmatched price and value while retaining the key benefits of HP Thermal Inkjet Technology such as ease of replacement, low part replacement cost, and low total cost of ownership, while delivering high-quality results.

## Ease of integration and replacement

Accelerate the overall design time and easily integrate the printhead into OEM systems and configure it to the applications with the simplified enabler kit and reference designs from HP. The Printhead and the Ink cartridge can be replaced in minutes without operator training, allowing seamless continuation of production.



## Design flexibility

With built-in pressure regulation in the printhead, the printing system can be pressurized which allows freedom in positioning of the IDS relative to the printhead. One or several of the 775ml Ink Cartridges can be connected to multiple printheads at once to meet production needs. The option of having two bulk supply systems with auto switching enables supplies to be automatically switched when one is depleted.

## Leading the way in sustainable package printing

The HP 2041 Inks are water-based inks with low VOC emissions. Save costs on label prices by printing directly on boxes using Original HP Ink. Printed materials can be recycled directly without the hassle of label removal.

## Additional components offered

- HP 108mm Printhead Driver PCA – Best-in-class HP Driver board that performs all of the printhead management functions for a single 108mm printhead, including temperature, energy control, and smart servicing.
- HP IDS Daughter Card – Best-in-class, HP IDS component that controls two ink cartridge Smart Cards and is an integral part of the overall security solution.
- HP 108 Printhead Stall Assembly – Includes a latch and printhead driver board mounting, and it includes the datums and features to mount the assembly to a base plate.
- HP Printhead Fluidic Interconnect and optional printer Cap - Printhead components that enable ease of use.
- HP Air Purge Cap – For quick and easy system setup.
- Tubing – Helps to establish a secure connection between the ink and print cartridge.

## Technical specifications

	Printhead	Ink cartridge
Resolution	1200 DPI /Slot	N/A
Number of slots	2	
Nozzle count	10,560	N/A
Maximum frequency	72 kHz	N/A
Print speed vs Print resolution	Upto 600 f/min (180m / min) 600X1200 DPI	
Approximate drop volume	7 pl	N/A
Ink fill level	N/A	775 ml
Operating conditions	15°C to 35°C (59-95°F), 20 to 80% RH	15°C to 35°C (59-95°F), 20 to 80% RH
Shipping/storage conditions	-10°C to 25°C (14-77°F), 0 to 100% RH	-10°C to 25°C (14-77°F), 0 to 100% RH
Altitude	Up to 4267.2 m (14,000 ft)	Up to 4267.2 m (14,000 ft)

## Ordering information

### Components

Product number	Product description	Product number	Product description
79Q80A	HP 2041 108mm Printhead	CV102A	HP Supply Stall & Fluid Interconnect
3UB41A	HP 2041 Fast Dry Black 775ml Ink Cartridge	FOM04A	HP Ink Cartridge Tube 50 meters
79Q72A	HP 108mm Printhead Fluidic Interconnect	W3T04A	HP Air Purge Cap
79Q75A	HP 108mm Printhead Driver PCA	W3T09A	HP IDS Daughter Card
79Q78A	HP 108mm Printhead Stall Assembly	FOL65A	HP ISVS Cap Assembly (Optional)
8M5V2A	HP Ink Cartridge Tube 1/8 Tube 6 meters		

## Learn more at

[hp.com/go/oeminkjet](http://hp.com/go/oeminkjet)

