

HP 22mm Printhead

Wider-swath, high-speed HP printhead for your coding and marking needs



Step into a wider world of possibilities for coding and marking

The new HP 22mm Printhead supports the needs of high-volume printing applications that demand high speed and high-resolution coding.

- Print 1D and 2D bar codes — Up to 22 mm (0.87 in) in size with one printhead.
- Print large bar codes and large characters with multiple printheads in a staggered configuration.
- Print high-resolution variable data at high speeds — Up to 150 m/min.
- Minimize operator interventions and reduce total cost of ownership (TCO) with the new, large 775 ml size ink cartridge.

Excellent solution for printing variable data for anti-counterfeit, track and trace, and marking needs

The high print quality capability of the HP 22mm Printhead is a great fit for a variety of applications, such as secondary and primary packaging, pharmaceutical labels, pharmaceutical cartons, secondary box label replacement, variable data document printing, and pattern printing.

Versatile printhead

The new HP 22mm Printhead is compact, yet it can print extremely high-resolution images and variable data at high speeds up to 150 m/min (492 ft/min). In addition, the long throw distance up to 5 mm (0.2 in)¹, enables flexibility of printhead positioning on the production line.

High-throughput production and reliable bar code printing

The HP 22mm Printhead achieves the highest level of bar code scores at high printing speeds, as well as the required readability on multiple devices, from a cell phone to a handheld unit.

Ease of integration and replacement

Easily integrate the printhead into the OEM system and configure it to the application needs. The printhead and the ink cartridge can be replaced in minutes without specific operator training, allowing seamless continuation of production.

¹ 5 mm (0.2 in) throw distance can be achieved with printing speeds up to 35 m/min (115 ft/min).



Design flexibility

With built-in pressure regulation in the printhead, the printing system can be gravity fed or pressurized. One or several 775ml ink cartridges can be connected to multiple printheads at once to meet production needs. Horizontal and vertical position printing capability provides flexibility for a range of applications.

Competitive cost of ownership (TCO)

The large 775 ml ink cartridge and printhead offer a strong alternative to competing technologies, while retaining key benefits of HP Thermal Inkjet Technology, such as the ease of replacement, and low cost.

Additional components offered

- Modular Ink Cartridge Stall Assembly — Provides easy insertion of the ink cartridge and proper electrical, mechanical, and fluidic connection.
- Tubing — Helps to establish a secure connection between the ink and print cartridge.
- HP Printhead Driver Daughter Card — Best-in-class, HP firing system component that simplifies the control and management of two printheads and their Smart Cards, and is an integral part of the overall security solution.
- 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 Printhead Fluidic Interconnect, Wiper and Cap — Printhead components that enable ease of use.
- HP Air Purge Cap — For quick and easy system set up.
- HP development kit — Includes the components needed to quickly demonstrate solution options and explore design choices.

Technical specifications

| | Printhead | Ink cartridge |
|-----------------------------|---------------------------------------|---------------------------------------|
| Resolution | Up to 2400 dpi | N/A |
| Nozzle count | 4224 | N/A |
| Maximum fluidic frequency | 18 kHz | N/A |
| Approximate drop volume | 6 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) |

Print speed vs print resolution specifications

| Vertical DPI | Horizontal DPI | # of Columns enabled | Media Speed | Fluidic Firing Frequency |
|--------------|----------------|----------------------|-------------------------|--------------------------|
| 1200 | 300 | 4 | 1200 ft/min (365 m/min) | 18 |
| 1200 | 450 | 4 | 800 ft/min (240 m/min) | 18 |
| 1200 | 600 | 4 | 600 ft/min (180 m/min) | 18 |
| 1200 | 600 | 4 | 500 ft/min (120m/min) | 12 |

Ordering information

Components

| Product number | Product description | Product number | Product description |
|----------------|---|----------------|-----------------------------------|
| W3S93A | HP 2040 22mm Printhead | W3T09A | HP IDS Daughter Card |
| W3S94A | HP 2040 Extra Black Pigment 775ml Ink Cartridge | W3T01A | HP Printhead Fluidic Interconnect |
| CV102A | HP OEM Printhead Stall | W3T02A | HP Printhead Wiper |
| W3T08A | HP Printhead Driver Daughter Card | W3T03A | HP Printhead Cap |
| F0M04A | HP Bulk Ink Cartridge 50-Meter Tube | W3T04A | HP Air Purge Cap |

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