



Progressive, Profitable Printing

Choose your **BEST PRINTING SOLUTION**



Welcome to the **HP printer portfolio for sign and display applications**

When you're considering your next printing system investment, what are the key benefits you're looking for? Is it quality? Versatility? Productivity? Reliability?

Usually, to get one means compromising on one or more of the others. But, when you choose HP printing systems, that's simply not the case. HP understands there is no single solution to fit the variety of needs of you and your customers. With this wide range of needs in mind, we have developed an extensive large-format signage printer portfolio designed to cover a broad spectrum of sign and display applications. And there is an option for you at virtually every solution size.

STEP 2



What is your projected print volume?

Determining projected print volume is based on three main aspects:

- Current volume
- Projections
- Strategic and long-range plans

Once you define your application type(s), you can narrow the field even further by evaluating your projected print volume. This should include both the volume you are producing today as well as the changes you are projecting into your future. As a print service provider that thinks about its business development, you can consider this as your strategic vision for the kind of company you want to be in the next three, five, and ten years. With this vision in mind, you can choose the printing solution that will best suit your business growth.

STEP 3



Product key feature comparison

Ink technologies in the large-format signage portfolio

Now that you have a better understanding of your needs, and before you choose the best solution, it's time to explore the technologies offered by HP large-format printing solutions. There are various ink technologies in the signage segment. Proprietary Original HP ink technologies really differentiate us from the rest of the market. Designed together with the HP printing system, our inks enable low-maintenance, high-performance solutions that deliver quality, durability, reliability, productivity, and cost-effectiveness.

Four ink technologies are offered in the large-format signage portfolio: Latex, UV curable, solvent, and water based. HP is the only company in the market to offer all four of these technologies.

WATER BASED INKS

What are aqueous inks?

- Water based, for absorbent or coated media
- "Dry" by evaporation

Why HP aqueous inks?

- Wide color gamut
- Applicable to a diverse range of media
- Support high production speeds
- Reduce the impact of printing on the environment

HP LATEX INKS

What are HP Latex Inks?

- Water based
- Ink vehicle softens vinyl, dries completely inside the printer
- Latex particles coalesce to form a durable film on the print medium

Why HP Latex Inks?

- Broad outdoor and indoor application versatility
- Display permanence and durability comparable to low/eco-solvent inks⁽¹⁾
- Reduced impact of printing on the environment
- No hazard warning labels
- No special ventilation required⁽²⁾
- Non-flammable, non-combustible⁽³⁾
- Recyclable HP large-format printing materials,⁽⁴⁾ designed together with HP Latex Inks

UV-CURABLE INKS

What are UV-curable inks?

- "Cured" by UV light rays
- Mechanically bind to the surface
- Do not dissolve or soften the surface of the print medium
- Do not require "drying" by evaporation

Why HP UV-curable inks?

- Substrate versatility (e.g., direct-to-rigid)
- High production rates
- Better environmentally than solvent inks
- Excellent durability
- Ideal for a wide range of applications

SOLVENT INKS

What are solvent inks?

- Colorant with fewer additives
- Solvent softens the print surface and evaporates

Why HP solvent inks?

- Print on low-cost, non-absorbent materials
- Flexible colorant
- Long-term outdoor durability
- Scratch, smear, and water-resistance
- Good color gamut
- Low cost/m²

(1) HP image permanence and scratch, smudge, and water resistance estimates by HP Image Permanence Lab. Outdoor display permanence tested according to SAE J2527 using HP Latex, low-solvent, and eco-solvent inks on a range of media, including HP media; in a vertical display orientation in simulated nominal outdoor display conditions for select high and low climates, including exposure to direct sunlight and water; performance may vary as environmental conditions change. Scratch, smudge, and water resistance tested using HP Latex, low-solvent, and eco-solvent inks on a wide range of media, including HP media; water resistance is comparable when printed on water-resistant substrates. Laminated display permanence for Latex/low-solvent comparison using Neschen Solvoprint Performance Clear 80 laminate; for Latex/eco-solvent comparison using GBC clear gloss 1.7 mil hot laminate. Results may vary based on specific media performance and scratch testing methodology. For more information, see www.hp.com/go/supplies/printpermanence.

(2) Special ventilation is not required to meet US OSHA requirements on occupational exposure to VOCs from HP Latex Inks. Special ventilation equipment installation is at the discretion of the customer—no specific HP recommendation is intended. Customers should consult state and local requirements and regulations.

(3) HP water-based Latex Inks are not classified as flammable or combustible liquids under the USDOT or international transportation regulations. These materials have been tested per the Pensky-Martins Closed Cup method and the flash point is greater than 110 deg C.

(4) HP offers the HP Large-format Media take-back program in the U.S. and Europe, through which most HP recyclable signage media can be returned, availability varies. Some recyclable papers can be recycled through commonly available recycling programs. For details visit www.hp.com/go/recycle. Aside from this program, recycling opportunities for these products are currently only available in limited areas. Customers should consult local recycling resources for recycling these products.

Selecting a printer that fits your needs

STEP
1

What applications do you want to produce?

STEP
2

What is your projected print volume?

STEP
3

Product key feature comparison

As you know, large-format signage is an exciting segment of the HP graphic arts offering. You need to make the right decision that fits your business from different angles, your application needs, your typical print volumes, and your customers' needs.

At HP we understand the complex process of choosing a new printing solution for your business, and we have developed a three-step questionnaire to help you through the process.

The three-step diagram on the left maps out the process for identifying the solutions that best meet your needs. You begin by evaluating the application type or types you wish to produce. Flexible or rigid? Wide or super wide? Then think about print volume projections. In the end, both pieces of information help you focus on the printing solutions that suit your business.

STEP

1



What applications do you want to produce?

HP large-format signage printers print on two basic types of media: flexible and rigid. Flexible substrates are "bendable" like paper, as opposed to stiff or rigid substrates, like cardboard.



Flexible applications

Flexible applications are everywhere. And within this category are two formats; wide and super wide:

- "Wide-format" machines print up to 2,5 m (8.2 ft). Larger applications are also possible using a wide-format printer by tiling smaller pieces together and then combining them to create one large image.
- "Super-wide format" machines print from 2,5 m up to up to 5 m (16.4 ft). Super wide is used for larger images or grouping multiple images to increase productivity.

Examples of flexible media include:

- Self-adhesive vinyl
- PVC banner
- Backlit film (for light boxes; used in shopping malls and stores)
- Blue back paper and polyethylene
- Canvas, flags, other textiles, and more



Rigid applications

Within this segment are a vast spectrum of functions and formats. From store signage, to event displays, to custom cabinets, and even short-run packaging, rigid applications are a great solution for many print service providers and their customers.

Rigid substrates include media such as:

- Cardboard
- Foam PVC and boards
- Corrugated polypropylene
- Acrylic
- Polycarbonate
- Aluminum composite materials
- Wood, ceramics, and other exotic substrates

HP sign and display printer portfolio

Flexible Industrial Printers

HP Water-Based Ink printers

HP Designjet Z5200 Postscript® printer



Up to 9 m²/hr (94 ft²/hr)
Up to 1.1 mm (44 in) wide
75 m²/month (800 ft²/month)⁽⁵⁾

HP Designjet Z6200



Up to 140 m²/hr (1500 ft²/hr)
42-in models: 28 to 106.7-cm (11 to 42-in) rolls
60-in models: 28 to 152.4-cm (11 to 60-in) rolls

HP Designjet L25500



Up to 22.8 m²/hr (246 ft²/hr)
42-in models: up to 106.7 cm wide
60-in models: up to 152.4 cm wide
500 m²/month (5,400 ft²/month)⁽⁵⁾

HP Latex Ink printers

HP Scitex LX600



Up to 157 m²/hr (1,690 ft²/hr)
Up to 2.64 m (104 in) wide
2,500 m²/month (21,500 ft²/month)⁽⁵⁾

HP Scitex LX820



Up to 177 m²/hr (1,905 ft²/hr)
Up to 3.2 m (126 in) wide
3,000 m²/month (32,000 ft²/month)⁽⁵⁾

HP Scitex LX850



Up to 177 m²/hr (1,905 ft²/hr)
Up to 3.2 m (126 in) wide
3,000 m²/month (32,000 ft²/month)⁽⁵⁾

HP UV-curable Ink printers

HP Scitex XP2750



Up to 110 m²/hr (1,200 ft²/hr)
Roll-fed: up to 3.2 m (10.5 ft) wide
Rigid: up to 2.5 x 2.0 m (8.2 x 6.5 ft) wide⁽⁶⁾
7,000 m²/month (75,000 ft²/month)⁽⁵⁾

HP Scitex XP2300



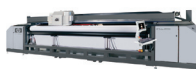
Up to 233 m²/hr (2,508 ft²/hr)
Up to 3.2 m (10.5 ft) wide
18,000 m²/month (194,000 ft²/month)⁽⁵⁾

HP Scitex XP5100



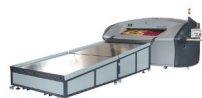
Up to 150 m²/hr (1,600 ft²/hr)
Up to 5 m (16.6 ft)
12,000 m²/month (130,000 ft²/month)⁽⁵⁾

HP Scitex XP5300



Up to 300 m²/hr (3,200 ft²/hr)
Up to 5 m (16.6 ft) wide
24,000 m²/month (260,000 ft²/month)⁽⁵⁾

HP Scitex TJ8600



Up to 480 m²/hr (5,166 ft²/hr) or up to 80 sheets/hr*
1.2 x 1.6 to 1.65 x 3.7 m (47 x 63 to 65 x 145 in)
24,000 m²/month (260,000 ft²/month)⁽⁵⁾
*On 165 x 370 cm (65 x 145 in) sheets

HP solvent ink printers

HP Scitex TJ8350



Up to 480 m²/hr (5,166 ft²/hr) or up to 80 sheets/hr*
1.2 x 1.6 to 1.65 x 3.7 m (47 x 63 to 65 x 145 in)
24,000 m²/month (260,000 ft²/month)⁽⁵⁾
*On 165 x 370 cm (65 x 145 in) sheets

Flatbed Industrial Printers

HP UV-curable Ink printers

HP Scitex FB500



Up to 37 m²/hr (398 ft²/hr)
Up to 1.63 m (64 in) wide
500 m²/month (5,400 ft²/month)⁽⁵⁾

HP Scitex FB700



Up to 80 m²/hr (861 ft²/hr)
Up to 2.5 m (98 in)
1,500 m²/month (16,200 ft²/month)⁽⁵⁾

HP Scitex FB7500



Up to 500 m²/hr (5,380 ft²/hr) or
95 full-size sheets/hr*
Up to 165 x 320 cm (65 x 126 in)
24,000 m²/month (260,000 ft²/month)⁽⁵⁾
*On 165 x 320 cm (65 x 126 in) sheets

(5) The numbers are average printing volumes per month, assuming one shift per day and may vary per printing modes, application and other variables.
(6) Standard