

# HP Designjet H45000 Printer series

Add speed and versatility to your business with this intelligently designed printer that converts easily from a roll-fed to a flatbed printer. UV inks are formulated to print on rigid display boards or flexible media with superb results and built-in HP quality.



Impressive, reliable results at demanding production speeds.

- **Expect results and watch your productivity soar with these fast, hybrid production printers.** The HP Designjet H45000 Printer series boasts production-level, high-volume print speeds up to 388 ff<sup>2</sup> (36 m<sup>2</sup>)/hour—print speeds that meet your customers' demands. And because you don't have to wait for media to dry or spend the time to transfer or mount the output, you can deliver even faster.
- **Produce the print quality your customers demand without sacrificing print speed.** Piezo printheads deliver variable-sized micro droplets of ink to achieve resolutions of 600 x 300, 600 x 600, and 1200 x 600 dpi. The six-ink HP Designjet H45500 Printer delivers even higher apparent image quality—up to 1800 dpi.
- **Command attention.** HP Designjet 788 inks and variable drop-size printheads combine to produce a greater image detail and smoother color transitions across a wide variety of media.

Print on a greater variety of material—both rigid and roll-fed—with the same printer.

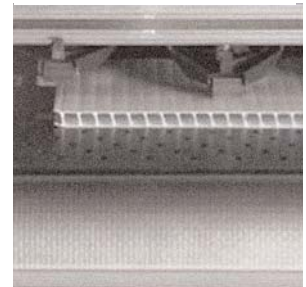
- **Choose the media you want and print directly on it—no mounting required.** Print on flexible roll-fed materials such as banner vinyl, adhesive vinyl, canvas, paper, and backlit film or print directly on rigid material up to 1 inch (2.5 cm) thick and 98 inches (2.5 m) in length. No laminating, transferring, or mounting required.
- **Reduce your printer's footprint without reducing functionality.** Designed to fit any space, this well-designed, hybrid UV printer easily converts from a roll-fed to a flatbed printer, minimizing floor space. The tables extend outward from 36 to 60 inches (91.4 to 152.4 cm) to support board lengths up to 96 inches (244 cm).
- **Save valuable time and cut costs.** Because the ink cures quickly with UV light exposure, you no longer need to wait for media to dry. Media is ready to go immediately, straight from the printer. And because you can print directly on rigid media, you no longer need to spend the extra time and material expense for mounting or laminating.

Count on HP to make work easier with this intelligently designed, hybrid UV printer.

- **Enjoy worry-free, self-service operation.** HP continues to build on years of experience to deliver the built-in reliability and ease-of-use your business expects from our products. HP engineers have thought through every detail. Designed for simplicity, this hands-off printer eliminates any need to clean the printheads manually and ensures that the printer is always ready to print.
- **What you used to do manually, the printer will do for you automatically.** The printer senses media edges and adjusts the media to position it precisely. Automatic printhead height adjustment allows the printer to accept and adjust to rigid sheet-fed media up to 1 inch (25 mm) thick.
- **Maximize usability and minimize training costs.** Redefine usability and minimize training time and costs with this simple, graphical, touchscreen control panel. This intuitive interface clearly displays printer status at a glance and enables easy navigation.
- **Expect accurate, consistent results from job-to-job, day-to-day, and media-to-media.** The printer aligns the printheads, ensures that every working jet fires a pixel at precisely the same location in both directions of travel, detects individual jets that are misfiring, and substitutes working jets for the missing jets. When used with the HP RIP Software, the printer performs automatic color calibrations using a high-resolution imaging sensor, photodiode, and embedded software. Get great results every time you print.
- **Experience HP's legendary quality and reliability.** To save your business time and simplify your workflow, the HP Designjet H45000 Printer series offers quality and trouble-free printing you can count on. And if you ever do need support, HP's high-quality support is among the best. Experience peace of mind, knowing you're covered.



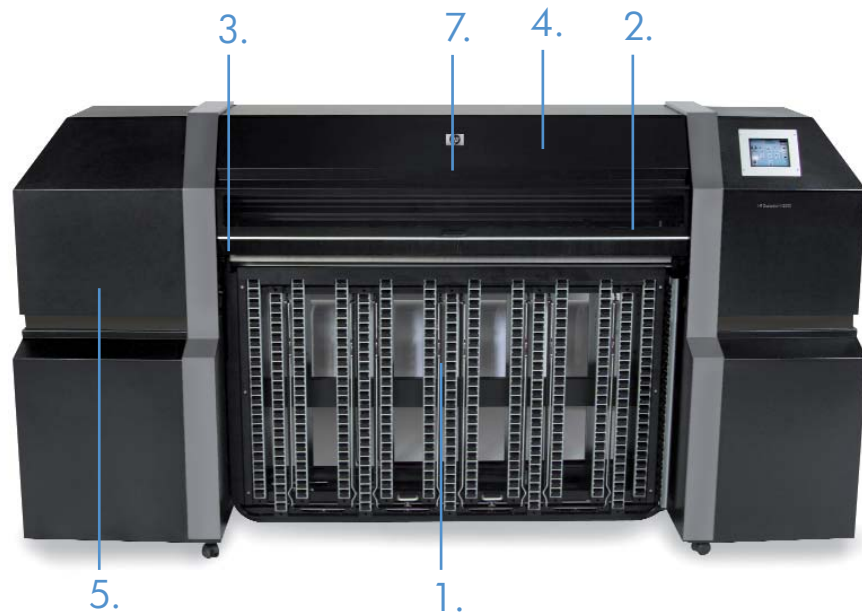
No-drip, quick connect/disconnect HP Designjet 788 inks



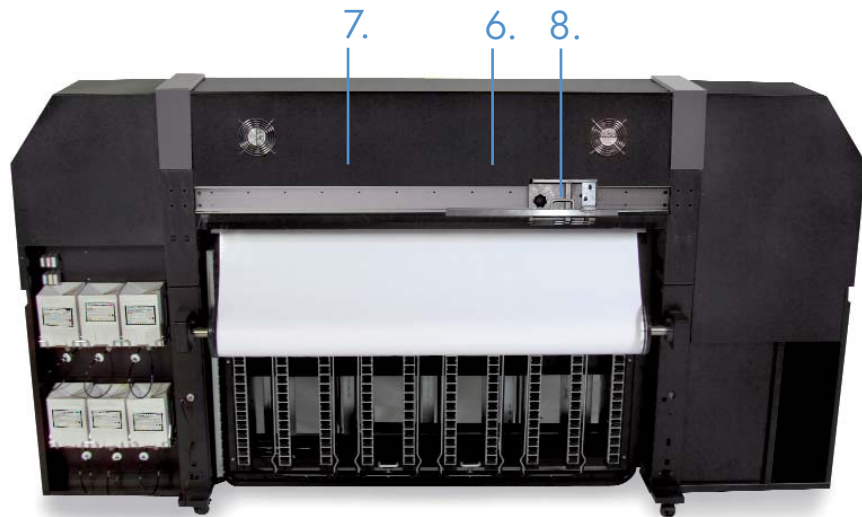
Molded pinch rollers for accurate alignment. No adjustments necessary

# HP Designjet H45000 Printer series

1. Integrated front and rear roller tables fold down and out of the way for roll-fed operation, or fold out for printing rigid materials.
2. Automatic media thickness detection and motor-driven height adjustment to accommodate media up to 1 in/25.4 mm thick.
3. Media Edge Guides prevent head strikes caused by roll-fed media edge curl.
4. Dual-shuttered UV lamp housings eliminate special handling for various media thicknesses. User-replaceable UV bulbs lowering operating costs.
5. Printhead service station fully maintains printheads health. This hands-off design eliminates the need for wiping or dabbing of printheads and ensures the printer is always ready to produce top quality images.



6. Built-in static elimination discharges static build-up on both top and bottom surfaces of synthetic media.
7. Fully enclosed to provide protection from moving parts and stray ultraviolet light.
8. Adjustable Media Fence keeps rigid media feeding straight and prevents media skew.



The HP Designjet H45000 Printer series is designed to fit the needs of big and small print shops and specially suited for:

- POP
- Interior decoration
- Informational signage
- Banners



## HP Designjet H45000 Printer series at a glance

### HP Designjet H45100 Printer

54 in/137 cm

**4 colors**

**8 printheads (2 per color)**

Hybrid configuration

Billboard print speed at 600 x 600 dpi  
388 ft<sup>2</sup>/hr (36 m<sup>2</sup>/hr)

### HP Designjet H45500 Printer

54 in/137 cm

**6 colors**

**12 printheads (2 per color)**

Hybrid configuration

Billboard print speed at 600 x 600 dpi  
388 ft<sup>2</sup>/hr (36 m<sup>2</sup>/hr)

## Advanced Automation Eye

The HP Designjet H45000 Printer series uses a high-resolution imaging sensor, colorimetric spectrophotometer, and embedded software to automate the setup and calibration steps critical for achieving and maintaining print quality.

### Auto-set Calibration

Analyzes dot placement of printed patterns and automatically sets the head-to-head alignment and bi-directional (bidi) dot placement alignment to compensate for variable print speeds, head height settings, and media thickness.

### Auto-jet Calibration

Eliminates banding in prints and prolongs the useful life of printheads by mapping out jets that are not up to performance standards and compensating by using other jets in their place.

### Auto-tune Scheduler

Schedules the AutoJet Calibration to occur during unattended print runs to ensure maximum print quality and minimize waste or reprints.

### Auto-edge and Media Out Detection

Uses the image sensor to aid in the loading of rigid materials by detecting right, left, and leading edges allowing the printer to precisely position the media to begin printing.

### Color Calibration

The on-board spectrophotometer supplies color data to the external RIP's color management software. The color management system then adjusts the color to ensure accurate and consistent color.

### Color Profiling

This optional feature uses the on-board spectrophotometer. The printer prints and automatically reads hundreds of color swatches to allow the RIP and color management software to create custom ICC and color profiles for 3rd party media.



# HP Designjet H45000 Printer series

## Technical specifications

<b>Color</b>	<b>HP Designjet H45100:</b> CMYK <b>HP Designjet H45500:</b> CMYKcm	
<b>Printheads</b>	<b>HP Designjet H45100:</b> 8 (two per color) <b>HP Designjet H45500:</b> 12 (two per color)	
<b>Print speed at 600x600-dpi</b>		
High quality	H45100/H45500: 97 ft <sup>2</sup> /hr (9 m <sup>2</sup> /hr)	
Production	H45100/H45500: 194 ft <sup>2</sup> /hr (18 m <sup>2</sup> /hr)	
Billboard	H45100/H45500: 388 ft <sup>2</sup> /hr (36 m <sup>2</sup> /hr)	
<b>Print resolutions</b>	1200 x 600, 600 x 600, 600 x 300 dpi	
<b>Print technology</b>	Reciprocating UV-curable inkjet Print technology	
<b>Technology resolution</b>	1200 x 600 dpi	
<b>Ink</b>		
Ink types	HP Designjet 788 UV pigment inks	
Print cartridge colors	<b>HP Designjet H45100:</b> Cyan, magenta, yellow, black <b>HP Designjet H45500:</b> Cyan, magenta, yellow, black, light magenta, light cyan	
Ink cartridge size	1 liter ink supplies	
Ink drop	10 to 30 pl	
Nozzles	192 nozzles per head	
<b>Memory</b>	512 MB	
<b>Media</b>		
Handling	Integrated front and rear roller tables support rigid media up to 96 in/244 cm in length and 35 lb/15.9 kg in weight. Automatic sensing of media thickness and head height adjustment. Supports roll-fed media on 3 inch cores.	
Types	Roll-fed materials such as banner vinyl, adhesive vinyl, canvas, paper, and backlit film. A wide variety of ridged board stock can be used including Coroplast, Foam-Cor, Sintra, Polystyrene, Acrylics, Corrugated, Plywood, DiBond, and more Up to 1 in / 2.54 cm thick and 35 lb / 15.9 kg in weight	
Thickness	24 to 54 in / 61 to 137 cm	
Maximum width	60 lb / 27.2 kg	
Maximum roll weight	0.25 in / 0.64 cm right and left margin on flexible media. Edge-to-edge available on rigid media.	
<b>Print margins</b>	Unlimited (determined by RIP software or media roll length) 0.1%	
<b>Maximum print length</b>		
<b>Print accuracy</b>		
<b>Interface</b>	100 Megabit VideoNet	
<b>UV energy source</b>	Dual, high-energy, user-replaceable UV bulbs. User-selectable Low, Medium, and High settings.	
<b>Shipping Dimensions</b>		
Weight	894 lb/406 kg	
Height	66.3 in/168 cm	
Depth	36 in/91 cm	
Width	117 in/297 cm	
<b>Assembled dimensions</b>	<b>Roll-fed</b>	<b>Tables Fully Extended</b>
Weight	581 lb/264 kg	581 lb/264 kg
Height	57.1 in/145 cm	57.1 in/145 cm
Depth	27.6 in/70.2 cm	127.8 in/325 cm
Width	108 in/274 cm	108 in/274 cm
<b>What's in the box</b>	Four or six 1-liter inks depending on model, 1-liter Printhead flush, 54 in x 100 ft roll of UV Photobase, 25 ft VideoNet interface cable, documentation, miscellaneous supplies and accessories.	

## Ordering information

CH106A HP Designjet H45100 Printer  
CH107A HP Designjet H45500 Printer

### Inks

CH116A HP Designjet 788 Cyan Ink  
CH117A HP Designjet 788 Magenta Ink  
CH118A HP Designjet 788 Yellow Ink  
CH119A HP Designjet 788 Black Ink  
CH120A HP Designjet 788 Light Cyan Ink  
CH121A HP Designjet 788 Light Magenta Ink  
CH122A HP UV Printhead Flush  
CH123A HP Designjet 788 Specialty Cyan Ink  
CH124A HP Designjet 788 Specialty Cyan Ink  
CH125A HP Designjet 788 Specialty Yellow Ink  
CH126A HP Designjet 788 Specialty Black Ink  
CH127A HP Designjet 788 Specialty Light Cyan Ink  
CH128A HP Designjet 788 Specialty Light Magenta Ink

### RIPs

CH224A HP with Color Profiling RIP Software  
CH225A HP RIP Software  
CH226A HP RIP Software Upgrade  
CH228A Onyx® Postershop® RIP Software  
CH229A Onyx® Production House RIP Software

### HW accessories

CH231A HP DJ H35000/H45000 UV Replacement Bulb  
CH232A HP DJ H35000/H45000 Fume Exhaust HW  
CH233A HP DJ H35000/H45000 Floor Switch

## Operating environment

<b>Electrical</b>	220-240 VAC, single phase, 50/60 Hz, 16 Amps maximum.
<b>Operating temperature</b>	68° to 85° F (20° to 30° C)
<b>Operating humidity</b>	20% to 80% Relative Humidity, non-condensing
<b>Warranty</b>	One year on-site parts and labor. Extended warranties available.
<b>Agency compliance/Certification</b>	Safety: CE, UL, cUL Emissions: CE, FCC-A Immunity: CE RoHS certified

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