

# HP Designjet 90 Printer series



Focus on your creativity with this professional, A2+/C+-size photo printer: the HP Designjet 90. HP Professional Color Technologies deliver consistent color output while HP Vivera Inks and select HP papers provide exceptional fade resistance.<sup>1</sup>



## Experience professional color

- **Rich color depth and minimal dot visibility.** Proprietary dye-based HP Vivera Inks in HP six-ink color printing work to deliver a wide range of colors, deeper blacks, continuous tones, and gloss uniformity. A four-picoliter ink-drop size maintains fine detail reproduction, especially in dark areas, and smooth tonal transitions.
- **Maximum color consistency.** See reliable, consistent color from print to print. HP invests in HP Professional Color Technologies making your color experience simple and straightforward. Plus, enjoy more robust color and job management capabilities.
- **New, revolutionary HP Vivera Inks.** HP Vivera Inks are carefully engineered to work flawlessly with all parts of the printing system so you achieve rich, vibrant colors and extraordinary photo image quality, time after time. Graphic designers and professional photographers can rest assured that the images they create will maintain their impact.
- **Optional EFI software RIP.** Add the optional EFI software RIP to expand your printing options and enhance color accuracy. The EFI software RIP provides Adobe PostScript level 3 support and optional Automatic Pantone calibration. Plus, you get enhanced job management capabilities for greater control. Spend just a little more to get a lot more from this professional, versatile printer.
- **Color fidelity.** Achieve exceptional color fidelity with the HP colorimeter with display profiling in a calibration software plus ICC profiles, powered by GretagMacbeth™ technology.<sup>2</sup>

## Live out your creativity

- **Print on a range of HP media sizes.** Increase your output options with multiple media-handling capabilities. The standard tray holds up to 70 sheets of A2+/C+-size media. The front bypass slot accommodates cut-sheet media up to media up to 18 inches/457 mm in width (A2+/C+ size). The rear bypass slot is designed to handle heavy and rigid HP media of weights up to 80 lb/300 g/m<sup>2</sup>. And four optional HP rolls feed media up to 18 in/457 mm wide and 150 ft/45.7 m long.<sup>3</sup>

- **Print high-quality images quickly.** Print high-quality images on A3+/B+-size media at four minutes per page in Normal print mode. Use Draft mode for proof printing to deliver A3+/B+-size prints quickly. No matter which mode you choose, you'll appreciate the quality that comes from HP technology.
- **Experience full color workflow support.** Your design software choices expand when you use the HP Designjet 90 Printer series, which enables color solutions for every color workflow. The print preview ensures correct layout. And you can add optional EFI software if you need color management in a CMYK workflow.

## Valuable time and cost savings

- **Save time and increase productivity.** Cost-effective, individually replaceable HP ink cartridges and printheads maximize efficiency and provide reliable operation that minimizes user intervention and improves productivity. 3-Ink Multipacks provide additional savings and convenience for high-volume printing.
- **Wide range of media weights and types.** Choose the media type that best conveys your concepts with durable HP media. The HP Designjet 90 Printer series can handle stock in weights up to 80 lb/300 g/m<sup>2</sup>, as well as thick or rigid media (up to .02 in/.04mm). Choose from a variety of HP media finishes. Furthermore, you also benefit from the added convenience of four different HP 18-in/457-mm media rolls.<sup>3</sup>
- **Reduce learning curve and maximize printer capabilities.** Included in the box is an interactive multimedia computer base training cd to show users how to efficiently operate the printer and how to print from Adobe Photoshop. HP also offers a free on-line HP Printing Knowledge Center with detailed instructions on how to perform workflow tasks (available through HP Graphic Arts portal [www.hp.com/go/graphicarts](http://www.hp.com/go/graphicarts) and HP Designjet Online portal [www.designjet.hp.com](http://www.designjet.hp.com) (by October 1st).

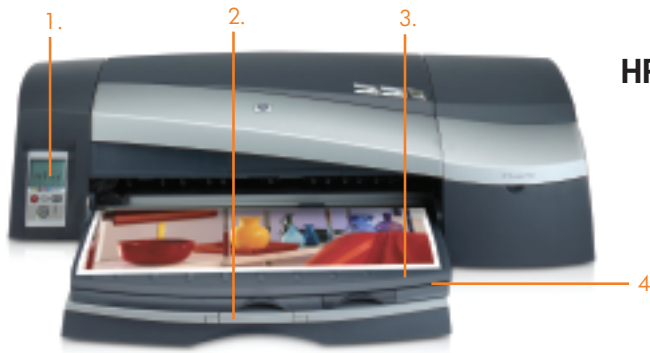
# HP Designjet 90 Printer series

1. LCD printer status indicator for ink supply maintenance and print message alerts
2. Media tray holds up to 70 sheets of standard-size media (up to A2+/C+size)
3. Front bypass slot accommodates cut-sheet media up to 18 inches/457 mm
4. Small footprint allows placement of printer on tabletop or in common work area
5. USB and parallel connection ensure easy system integration. Optional network connectivity with HP Jetdirect 620n
6. Rear bypass slot handles heavy and rigid media of weights up to 80 lb/300 g/m<sup>2</sup>
7. Roll feed (optional with HP Designjet 90 Printer) feeds rolls up to 18 in/457 mm wide and 150 ft/45.7 m long
8. HP colorimeter with display profiling and calibration software plus ICC profiles, powered by Gretag/Macbeth™ technology (HP Designjet 90gp Printer only).

Internal color sensor for color consistency

Fade resistant inks with 4 pl drop size for fade-resistant, photo-quality images

Modular ink system with six independently replaceable ink cartridges allows you to replace only the ink colors you need.



HP Designjet 90 Printer front view



HP Designjet 90gp Printer top view



HP Designjet 90r Printer top view



## Series at a glance

### HP Designjet 90 Printer

- Input tray for 70 sheets up to 18 x 24 in/457 x 609 mm
- Optimized Macintosh and Windows drivers with RGB ICC profiles
- Optional network connectivity

### HP Designjet 90r Printer

- All the features of the HP Designjet 90 Printer plus:
- Roll feed for printing up to 18 in/457 mm wide

### HP Designjet 90gp Printer

- All the features of the HP Designjet 90r Printer plus:
- HP colorimeter with display profiling and calibration software plus ICC profiles, powered by Gretag/Macbeth™ technology.

### Optional accessories

- HP Designjet 90 Roll Feed accessory\*
- HP Designjet 90 Spindle accessory\*
- EFI Designer Edition 4.2 for HP M International
- EFI Designer Edition 4.2 for HP M Japan
- EFI Designer Edition 4.2 for HP XL International
- EFI Designer Edition 4.2 for HP XL Japan
- HP Jetdirect 620n internal EIO print server

\* Standard with the HP Designjet 90r & 90gp Printers

### HP Color Profiling Offsite Service

The HP Color Profiling Offsite Service helps eliminate wasted time, media and ink caused by inadequate results, while improving the efficiency and effectiveness of advanced color workflow. This is done by providing an ICC profile specialized design for your printer and media. There are 2 packages available:

- UC217E: for creation of 1 profile
- UC218E: for creation at a reduced price

"I am totally enthusiastic about the quality of the prints - I am amazed by the modulation, the deep color saturation and the overall "liveliness" of the images. I was especially impressed by how well the black and white images printed. I know that printing black and white can be more tricky than color."

Thomas Hoepker  
President of Magnum Photos



## A great tool for professional photographers

### Exceptional fade resistant photo quality

HP Vivera inks, together with HP Premium Plus photo papers for exceptionally fade resistant images that last approximately 82 years.

### Fine details and faithful reproduction

Excellent highlight and shadow detail, smooth transitions and persuasive skin tones, with 4pl ink drop size. HP color layering technologies provide dense blacks, reliable color consistency and gloss uniformity.

### Excellent gloss level and gloss uniformity

Dye-based HP Vivera inks provide rich color depth, minimal dot visibility, and uniform gloss-all important attributes of image quality.



'Japanese Face' © Thomas Hoepker/Magnum

## An asset for graphic designers

### No need to outsource or tile and assemble

Save time and money by publishing professional color prints in-house.

### Media versatility up to C+/A2+ size

4 independent paper paths and a roll-feed expand your printing capabilities, from postcards to full sized banners.

### Professional color proofs

HP Color Technologies such as Professional Pantone emulation and CMYK+ will provide the edge to win more clients. Automatic printhead alignment and Closed Loop Color calibration deliver consistent reliable colors every time. Postscript support through EFI Designer Edition 4.2 RIP.

### Time to design

See results and get client approval fast by printing up to 4 mpp for A3+/B+ sizes in Normal mode.



HP Vivera Inks, specifically developed for use with HP inkjet printing systems, encompass a number of key elements that contribute to the inks' exceptional performance:

- Superior ingredients and unique ink formulations
- Exceptional ink purity
- Low-colorant inks designed from the ground up

## Improving the workflow of proofing professionals

### Fast color stability

Obtain accurate and stable proofs quickly with new dye-based HP Vivera ink and HP Proofing media (most media are stable 10 minutes after printing).

### Color consistency

Consistency is guaranteed by way of the patented Closed Loop Color calibration, which eliminates guess work.

### Press simulation

Press simulation is a CMYK to CMYK transformation that changes the lightness, hue, and saturation of the CMYK files sent to the inkjet printer to match the output of a production device, giving pre-press professionals an easy-to-use and low-cost tool for producing accurate proofs. Postscript support through EFI Designer Edition 4.2 RIP.

### Flexible printing sizes

Switching easily between sheet and roll-fed media (up to 18 inches/457 mm), you can reliably print postcard-size images, full-color pages, or banner-style pieces.



# HP Designjet 90 Printer series

## Technical specifications

<b>Product numbers</b>	HP Designjet 90 Q6656A HP Designjet 90r Q6656B HP Designjet 90gp Q6656C
<b>Printing</b>	
Technology	HP Thermal Inkjet
Technology resolution	HP Color Layering technology, PhotoREI IV
Lightfastness	82 years* <small>/*Wilhelm Imaging Research, Inc. concluded that prints made with HP No. 85 ink cartridges and HP Premium Plus Photo papers may be displayed indoors under glass for 82 years before noticeable fading and staining occur (see www.wilhelm-research.com for details).</small>
Printer cartridge colors	Black, cyan, magenta, yellow, light cyan, light magenta
Ink types	HP Viverra dye based inks
Ink drop	4pl
<b>Print speeds</b>	Color Image (ISO N5) Normal Mode A3/B Glossy Paper: 4 min/page* <small>/*The printed area dimensions (margins not included) for file N5 are 11.02 x 13.78 in (279.9 x 350 mm).</small> Color Image (ISO N5) Normal Mode A2/C Glossy Paper: 6.3 min/page* <small>/*The printed area dimensions (margins not included) for file N5 are 14.5 x 18.1 in (368 x 460 mm)</small>
<b>Connectivity</b>	
Standard:	USB 1.1 (USB 2.0 compliant), Centronics parallel IEEE-1284 (ECP compliant), 1 EIO slot
Optional:	HP Jeldirect 620n, 615n, 680n, 610n, 600n, 175x, 310x, 380x, en3700
Drivers (included):	Raster driver for Mac OS 9.x, 10.2, 10.3, 10.4; PCL 3-GUI Windows driver; Microsoft Windows drivers 98, Me, 2000, XP
<b>Print margins</b>	
	Top (sheet) 0.2 in (5 mm) Bottom (sheet) 0.47 in, 0.2 in (5 mm) (roll *) Left (sheet) 0.2 in (5 mm) Right (sheet) 0.2 in (5 mm) <small>/*Roll comes as standard with HP Designjet 90r Printer and is optional with HP Designjet 90 Printer</small>
<b>Media</b>	
Handling	70-sheet input tray, 50-sheet output tray, front single-sheet paper feed, rear path for manual single-sheet feed, rear roll feed* <small>/*Roll feed comes as standard with HP Designjet 90r Printer and is optional with HP Designjet 90 Printer</small>
Types	Paper (plain, inkjet, coated, heavyweight coated, semi-gloss, glossy, proofing, photo, brochure/flyer), transparencies
Thickness (by paper path)	<b>HP Designjet 90 Printer:</b> Tray 1: up to 0.008 in; envelopes: up to 0.015 in; Rear Tray: up to 0.015 in; manual sheet feed: up to 0.008 in (Tray 1: up to 0.2 mm; envelopes: up to 0.4 mm; Rear Tray: up to 0.4 mm); manual sheet feed: up to 0.2 mm) <b>HP Designjet 90r &amp; 90gp Printers:</b> Tray 1: up to 0.008 in; envelopes: up to 0.015 in; Rear Tray: up to 0.015 in; manual sheet feed: up to 0.008 in; roll media: up to 0.008 in (Tray 1: up to 0.2 mm; envelopes: up to 0.4 mm; Rear Tray: up to 0.4 mm); manual sheet feed: up to 0.2 mm)
Weights (by paper path)	<b>HP Designjet 90 Printer:</b> Tray 1: 17 to 40 lb; manual single-sheet feed: 17 to 40 lb; rear path: up to 80 lb (Tray 1: 65 to 150 g/m <sup>2</sup> ; manual single-sheet feed: 65 to 210 g/m <sup>2</sup> ; rear path: up to 300 g/m <sup>2</sup> ) <b>HP Designjet 90r &amp; 90gp Printers:</b> Tray 1: 17 to 40 lb; manual single-sheet feed: 17 to 40 lb; rear path: up to 80 lb; roll feed 17 to 40 lb (Tray 1: 65 to 150 g/m <sup>2</sup> ; manual single-sheet feed: 65 to 210 g/m <sup>2</sup> ; rear path: up to 300 g/m <sup>2</sup> ; roll feed: 65 to 150 g/m <sup>2</sup> )
Sizes	Letter, legal, tabloid, executive, C, envelopes, banners (A2, A3, A4, B3, B4, A/B/C (English architectural), envelopes, banners)
Rolls	Core diameter: 2 in (5.08 cm) External diameter: 3.9 in (10 cm) Max Weight: 7 lb (3 kg)
<b>System</b>	
Minimum system requirements	<b>Windows</b> Microsoft Windows 98: Pentium I, 133 MHz, 128 MB RAM, 300 MB available hard disk space; Microsoft Windows 2000, Server 2003: Pentium II, 300 MHz, 128 MB RAM, 400 MB available hard disk space; Microsoft Windows XP: Pentium III, 733 MHz, 256 MB RAM, 400 MB <b>Mac</b> iMac G3, Mac OS 9 v 9.1, Mac OS 10 v 10.2, 256 MB RAM, 100 MB available hard disk (compatible Macintosh hardware: iMac G3, G4, G5, G4 dual processor, G5 dual processor, iBook, PowerBook, eMac)
Recommended system requirements	<b>Windows</b> Microsoft Windows Me: Pentium II, 300 MHz, 128 MB RAM, 1 GB available hard disk space; Microsoft Windows 2000: Pentium III, 733 MHz, 256 MB RAM, 2 GB available hard disk space; Microsoft Windows XP: Pentium IV, 1 GHz, 256 MB RAM, 2 GB available hard disk <b>Mac</b> Mac OS 9 v 9.2, Mac OS 10 v 10.2 and higher, 10.3, G3 dual processor, 512MB RAM, 1 GB available hard disk space
<b>Memory</b>	64 MB
<b>Print languages</b>	
Standard	PCL 3-GUI RGB 24-bit Contone
Optional	Adobe PostScript 3 via software RIP
<b>Dimensions (w x d x h)</b>	
Maximum	HP Designjet 90 Printer: 35 x 33.9 x 8.7 in (890 x 860 x 220 mm) HP Designjet 90r/90gp Printers: 35 x 33.9 x 8.7 in (890 x 860 x 220 mm) HP Designjet 90/90r/90gp Printers: 43 x 22 x 20 in (1034 x 544 x 498 mm)
<b>Shipping</b>	
Weight	
Printer	HP Designjet 90 Printer: 40.8 lb (18.5 kg) HP Designjet 90r/90gp Printers: 43 lb (19.5 kg)
Shipping	HP Designjet 90 Printer: 68 lb (31 kg) HP Designjet 90r/90gp Printers: 73 lb (33 kg)
<b>What's in the box</b>	
<b>HP Designjet 90 Printer</b>	HP Designjet 90 Printer, power cord, printheads (6), print cartridges (6), input/output tray, input tray cover, driver & documentation CD, Setup Poster, Quick Reference Guide, media samples, customer service guide, HP Designjet 30/90/130 CBT Training CD
<b>HP Designjet 90r Printer</b>	HP Designjet 90r Printer, roll feed, spindle assembly, power cord, printheads (6), print cartridges (6), input/output tray, input tray cover, driver & documentation CD, Setup Poster, Quick Reference Guide, media samples, customer service guide, HP Designjet 30/90/130 CBT Training CD
<b>HP Designjet 90gp Printer</b>	HP Designjet 90r Printer, roll feed, spindle assembly, power cord, printheads (6), print cartridges (6), input/output tray, input tray cover, driver & documentation CD, Setup Poster, Quick Reference Guide, media samples, customer service guide, HP colorimeter with display profiling and calibration software plus ICC profiles, powered by GretagMacbeth™ technology, HP Designjet 30/90/130 CBT Training CD
<b>Environmental ranges</b>	
Operating temperature	41 to 104° F (5 to 40° C)
Recommended operating temperature	59 to 91° F (15 to 35° C)
Storage temperature	-13 to 131° F (-25 to 55° C)
Operating humidity	20% to 80% RH
Recommended humidity	25% to 75% RH
<b>Acoustic</b>	
Sound pressure, active	50 dB(A)
Sound pressure, standby	37 dB(A)
Sound power, active	6.2 B(A)
Sound power, standby	5.4 B(A)
<b>Power consumption</b>	
Maximum	65 watts
Standby	22 watts
<b>Power</b>	
Requirements	Input voltage 100 to 240 VAC (+/- 10%) auto range, 50/60 Hz (+/- 3 Hz), 2 amp maximum
<b>Power certification</b>	
Electromagnetic compatibility	Compliance for Class B products, Class A when connected to LANs: EU (EMC Directive), USA (FCC rules), Canada (DoC), Australia (ACA), New Zealand (MoC), China (CCC), Japan (VCCI), Class A: for Korea (MIC) and Taiwan (BSMI) IEC 950-compliant, EU LVD and EN60950 compliant, CSA certified for US and Canada, Mexico NOM-1-NYCE, Argentina IRAM, China CCC, Singapore PSB, Russia VNIIS, Korea KTL
Safety certification	Yes
Energy Star compliant	Yes
<b>Warranty</b>	
	<b>HP Designjet 90 Printer:</b> One-year next-business-day exchange (EMEA, NA, LAR, Australasia), one-year next-business-day on-site repair (AP except Australia and New Zealand) <b>HP Designjet 90r Printer:</b> One-year next-business-day exchange (EMEA, NA, LAR, Australasia), one-year next-business-day on-site repair (JP, CHINA) <b>HP Designjet 90gp Printer:</b> One-year next-business-day exchange (EMEA, NA, CA)

### Accessories

Q6662A HP Designjet 90 Roll Feed accessory  
Q6661A HP Designjet 90 Spindle accessory  
Q6641C EFI Designer Edition 4.2 for HP M International  
Q6642C EFI Designer Edition 4.2 for HP M Japan  
Q6643C EFI Designer Edition 4.2 for HP XL International  
Q6644C EFI Designer Edition 4.2 for HP XL Japan

### Media supplies

C1961A HP Coated Paper - C+/100 sheet  
Q5492A HP Photo Matte-B+/50 sheet  
Q1967A HP Proofing Matte-B+/100 sheet  
Q5486A HP Premium Plus Photo and Proofing Glass Paper-B+/25 sheet  
Q5487A HP Premium Plus Photo and Proofing Glass Paper-C+/20 sheet  
Q5489A HP Premium Plus Photo Satin Paper-B+/25 sheet  
Q5490A HP Premium Plus Photo Satin Paper-C+/20 sheet  
C7884A HP Proofing Semi-Gloss Paper-B+/50 sheet  
Q7970A HP Proofing Semi-Gloss Contract Proofing Paper-B+ sheets (50 sheets)  
C1858A HP Bright White Inkjet Paper A3/250 sheet  
HPB1724 HP Bright White Inkjet Paper B/250 sheet

Q7897A HP Coated Paper-18 in/150 ft roll\*  
Q7896A HP Proofing Matte Paper-18 in/100 ft roll  
Q7920A HP Premium Plus Photo Satin Paper-18 in/50 ft roll\*  
Q7895A HP Proofing Semi-Gloss Paper-18 in/100 ft roll

\*Roll comes as standard with HP Designjet 90r & 90gp Printers and is optional with HP Designjet 90 Printer

### Ink supplies

C9420A HP 85 Cyan Printhead  
C9421A HP 85 Magenta Printhead  
C9422A HP 85 Yellow Printhead  
C9423A HP 85 Light Cyan Printhead  
C9424A HP 85 Light Magenta Printhead  
C9425A HP 85 Cyan Ink Cartridge  
C9426A HP 85 Magenta Ink Cartridge  
C9427A HP 85 Yellow Ink Cartridge  
C9428A HP 85 Light Cyan Ink Cartridge  
C9429A HP 85 Light Magenta Ink Cartridge  
C5019A HP 84 Black Printhead  
C5016A HP 84 Black Ink Cartridge  
C9430A HP No. 84 3-ink Cartridge Multipack, black  
C9431A HP No. 85 3-ink Cartridge Multipack, cyan  
C9432A HP No. 85 3-ink Cartridge Multipack, magenta  
C9433A HP No. 85 3-ink Cartridge Multipack, yellow  
C9434A HP No. 85 3-ink Cartridge Multipack, light cyan  
C9435A HP No. 85 3-ink Cartridge Multipack, light magenta

### Core packs

UC743A/E Installation - 1 Unit  
UC744A/E Network installation - 1 Unit  
U3423A/E Next-day Exchange, 3 years (only available in EMEA, NA, LAR, Australasia)  
U3477A/E Next-day Onsite Hardware support, 3 years (only available in AP)  
U3530PA/PE Next-day Exchange, 1 year (only available in EMEA, NA, LAR, Australasia)  
U4662PA/PE Next-day Onsite Hardware support, 1 year (only available in AP)



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