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# HP DesignJet CP Large-Format Graphics Printers

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# The Best in

## HP DesignJet CP Printers—The Standard in Output Quality

HP DesignJet CP printers combine powerful features that set a new standard in high-resolution color printing:

- Available in two widths:  
**HP DesignJet 2000CP/2500CP**  
36-inch model printers

### HP DesignJet 3000CP/3500CP

54-inch model printers

- True 600-dpi color printing for photo-realistic images that look like continuous tone.
- Large-capacity, no-mess ink system for longer print runs and unattended printing.

- An intuitive, front-panel display for quick and easy access to printer features.
- Built-in humidity and temperature sensors that automatically adjust dry time and print speed, ensuring a usable print regardless of environmental conditions.

## HP DesignJet 2500CP & 3500CP Printers—The Standard in Ease of Use

### Ready out of the box

Complete with their own Adobe® PostScript® 3™ RIP, the HP DesignJet 2500CP/3500CP printers come ready for immediate connection to a network or workstation. They include 20 MB/36 MB RAM, a 2 GB/4.3 GB hard disk, an HP JetDirect card for Ethernet/LocalTalk, and Macintosh and Microsoft® Windows® PostScript drivers.

### Reliable, low-maintenance operation

Designed for robust performance, the HP DesignJet 2500CP/3500CP printers have a cleaning station that keeps the printheads clean and a new fault-tolerant print mode that detects and bypasses clogged nozzles automatically. Also automated is the printer's ability to analyze and adjust its print mechanism, regulating its output by printing and scanning test patterns. Virtually self-cleaning and self-adjusting, these printers keep maintenance and downtime to a minimum.

### Fast and efficient file processing

The HP DesignJet 2500CP/3500CP printers push throughput to the maximum in three ways: First, *dual file management* lets the printer print one file as it processes the next. Second, *file queuing* allows users to send a series of files to the printer for unattended printing. File queuing also lets users reorder the queue at any time to send a priority job to the head of the line. However, for faster throughput, users can disable file queuing. Third, *file nesting* arranges smaller prints side-by-side to save paper. And because rasterized files are stored on a portion of the internal 2 GB/4.3 GB hard disk, they are ready for immediate reprinting without the delay of reprocessing until another file bumps it from the queue.

### Automatic color calibration

The HP DesignJet 2500CP/3500CP printers calibrate color with a built-in mechanism that works like a densitometer. Maintaining consistency across the range of inks, media, and environmental conditions, the printer calibrates color automatically whenever the ink system or media type is changed

and manually at the user's request. Capable of analyzing its own output, the printer prints and optically scans CMYK block patterns, comparing the test print to standards for the type of media and color emulation selected. If it detects a discrepancy, the printer adjusts its color to ensure consistency from print to print.

### Professional ink emulation

Excellent for comping and proofing, the HP DesignJet 2500CP/3500CP printers offer PANTONE®\* color-matching and can emulate the color standards of offset printing presses, letting users select from SWOP, EuroScale, and TOYO ink emulation.

### Advanced imaging

For precise imaging of subtle skin tones, fine details, and small text, the HP DesignJet 2500CP/3500CP printers have the smallest drop size available. The printer also incorporates an exclusive, HP-developed dithering algorithm that further enhances the printer's 600-dpi resolution by refining shades, smoothing fills, and sharpening details.

\*Pantone, Inc.'s check standard trademark for color

DesignJet CP

# Big Printing



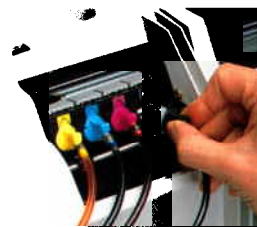
1  
Insert the printhead



2  
Insert the printhead cleaner



3  
Insert the ink cartridge



4  
Connect the valve

## Breakthrough Technology—The HP Ink Delivery System

HP has pioneered a revolutionary ink delivery system that brings image quality and reliability to new levels of performance. Easy to use and high in capacity, this ink delivery system consists of three components that minimize refilling and maintenance:

- Printhead
- Printhead Cleaner
- Ink Cartridge

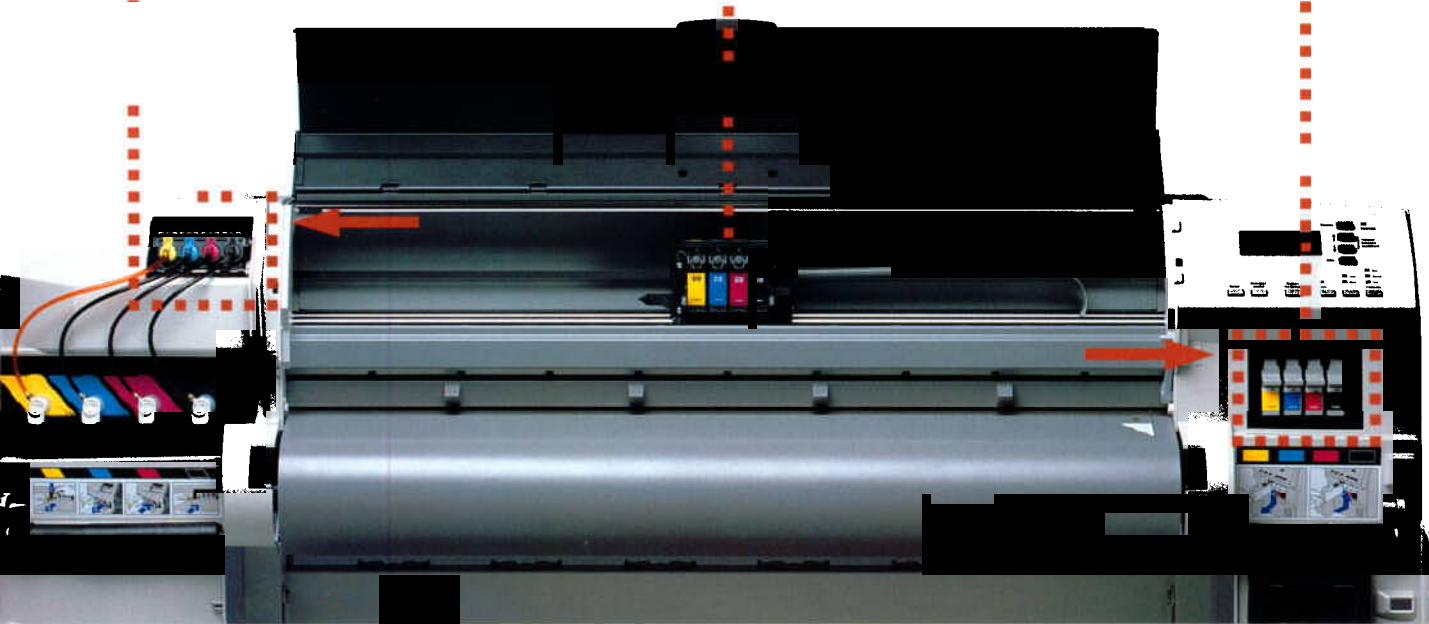
All three components work in concert. The high-resolution printhead holds 40 ml of ink and automatically refills itself from the high-capacity, 370-ml ink cartridge. Constantly monitoring the level of ink in the printheads, the ink delivery system takes advantage of time between prints to refill all four colors—a quick, automatic process of just 2 minutes. To extend operation, each ink system holds enough ink to print about 2000 square feet. For

added reliability, the printhead cleaner removes accumulated ink and caps the printheads when not in use. And refills are quick, clean, and simple. The entire ink system can be replaced without spilling a drop in less than twenty minutes, and this includes automatic realignment and calibration. Altogether, this unique ink delivery system combines precise imaging, reliable performance, and simple operation.

Large-capacity ink cartridges keep the printheads full—automatically

Printhead

Printhead cleaners keep the printheads clean—automatically





#### Easy media handling

Choose between sheet- or roll-fed media and let the printer take care of the work. With roll-fed media, the printer automatically feeds, cuts, and places completed prints into its media bin. The HP DesignJet 3000CP and 3500CP models come with a take-up reel for production printing. A built-in humidity and temperature sensor automatically adjusts the drying time of each print. And you can queue files for unattended printing. The printer even prints smaller jobs side-by-side to reduce media waste.



#### Large-capacity ink cartridge

HP's easy-to-use, no-mess ink system comes with four 370-ml ink cartridges, one for each color. The HP DesignJet CP Ink System prints about 2000 square feet.



#### Informative reporting

From the front-panel display, users can print a variety of informative reports for monitoring printer statistics such as PostScript CP configuration, numbers and sizes of prints produced, and total amount of ink used per color.

HP DesignJet 3000CP/3500CP Printers

Print Mode	Economy	Productivity	Photo
Print Quality	300 dpi	300 dpi	600 dpi
Print Time (Square Feet Per Hour)	92 sq.ft	46 sq.ft	18 sq.ft

HP DesignJet 2000CP/2500CP Printers

Print Mode	Fast	Normal	Best
Print Quality	300 dpi	300 dpi	600 dpi
Print Time (Square Feet Per Hour)	83 sq.ft	42 sq.ft	17 sq.ft

## Printer, Ink, Media—The Integrated Solution

HP has designed its printers, inks, and media to work together as a complete system that offers unsurpassed quality of output, reliability of performance, and efficiency of operation.

#### The right ink for the right job

HP DesignJet CP printers support two types of ink, each optimized for specific uses:

- The HP DesignJet CP Ink System—a dye-based imaging ink set offering the largest color gamut for the best photo-quality output. This ink set is designed primarily for indoor use and comes with the printer. Depending on the media, you can expect lightfastness of up to four years in office lighting.
- The HP DesignJet CP Ink System UV—a pigment-based ink set that provides extra durability and fade resistance for prints exposed to UV light. When printed with HP UV pigmented inks on HP Heavyweight Coated Paper, an indoor graphic placed in a window will retain its original, unfaded brilliance for about a year.

#### A wide variety of media

HP has developed a full line of media to make the most of its printer and ink technology. This line offers quick-drying, long-lasting, smudge-resistant prints. And it's engineered to ensure superior image quality over a variety of stocks including coated papers, semi-gloss and high-gloss photo papers.

#### Low cost per copy

This integrated system of printer, ink, and media delivers unprecedented quality at a low cost of operation. Using the HP DesignJet Ink System on HP Coated Paper, it costs just \$0.40 per square foot to print an average photograph with 100% coverage and 40% density per color. On HP glossy papers, the same photograph costs only \$1.25 per square foot. And with HP DesignJet CP Ink System UV on HP Heavyweight Coated Paper, the cost per square foot is just \$0.85 (U.S. prices).

#### 3M™ Matched Component System (MCS™) for added durability and lightfastness

This system combines HP pigment-based inks with 3M media and overlamine for extended durability backed by a warranty. When produced according to manufacturer's guidelines, graphics are warranted for two years outdoors and five years indoors against deterioration caused by ultraviolet light, moisture, temperature extremes, pollution, and other elements. To be eligible for warranty coverage, HP DesignJet CP printer users need to follow the 3M™ TLJ Graphics Certified Fabricators process. In addition, the graphics must be printed using 3M™ Changeable Opaque Imaging Media, HP DesignJet CP Ink Systems UV, and either 3M™ Luster Overlamine or 3M™ Matte Overlamine.

# Big Printing

HP DesignJet CP printers offer an unprecedented level of quality in high-resolution large-format printing—setting new industry standards for photo-realistic output, money-saving efficiency and reliability.

And here's one more big advantage: they come in both 36-inch and 54-inch widths to meet your varying needs.

## Added Value With External RIPs

If you are in a production environment or need special capabilities from your printer, HP DesignJet 2000CP and 3000CP printers provide an open, flexible solution. Users can combine HP printing technology with an external RIP to address specific needs such as:

- Accelerating file processing
- Job management and accounting capabilities
- Better image quality through error diffusion dot placement algorithms
- Extensive color management capabilities
- Emulating specialized color tables
- Acceptance of multiple file formats
- Font support flexibility
- Faster print modes
- Driving multiple devices

Time to make it

Big

(As RIP capabilities vary, check with RIP vendors to determine which features are available.)

# HP DesignJet CP Series Printers

## Specifications

### Print Technology

#### Print Times (On HP Coated Paper)

HP DesignJet 2500CP/2000CP

HP DesignJet 3500CP/3000CP

### Resolution

#### Ink Sets and Media

### Media Handling

#### Media Sizes

HP DesignJet 2500CP/2000CP

HP DesignJet 3500CP/3000CP

#### Minimum Line Width

#### Accuracy

#### Memory, Standard

HP DesignJet 2500CP

HP DesignJet 2000CP

HP DesignJet 3500CP

HP DesignJet 3000CP

#### Memory, Maximum

#### Languages

HP DesignJet 2500CP/3500CP

HP DesignJet 2000CP/3000CP

#### Drivers

AutoCAD

PostScript (2500CP/3500CP)

Windows (2000CP/3000CP)

#### Interfaces

HP DesignJet 2500CP/3500CP

HP DesignJet 2000CP/3000CP

#### Auto Interface Switching

#### Front Panel Display

#### Warranty

## Physical Characteristics

#### Height, Width, Depth / Weight

HP DesignJet 2500CP/2000CP

HP DesignJet 3500CP/3000CP

#### Shipping Dimensions/Weight

HP DesignJet 2500CP/2000CP

HP DesignJet 3500CP/3000CP

## Operating Environment

#### Temperature Range

#### Relative Humidity

#### Power Requirements

#### Power Consumption

#### Sound Pressure Level

#### Sound Power Level

## Certifications

#### Safety

#### Electromagnetic Compatibility

#### Environmental

## HP DesignJet 2500CP/2000CP and HP DesignJet 3500CP/3000CP

Color Thermal Inkjet

83 square feet per hour (Fast mode)  
42 square feet per hour (Normal mode)  
17 square feet per hour (Best mode)  
92 square feet per hour (Economy mode)  
46 square feet per hour (Productivity mode)  
18 square feet per hour (Photo mode)

Best/Photo: 600 dpi; Normal/Productivity: 300 dpi; Fast/Economy: 300 dpi

4 color CMYK

HP DesignJet CP Ink Systems for use with HP Coated and Heavyweight Coated Paper, HP Semi-Gloss and High-Gloss Photo Paper, and co-developed 3M Clear Imaging Media, 3M Changeable Opaque Imaging Media

HP DesignJet CP Ink Systems UV for use with HP Heavyweight Coated Paper, HP Banners with Tyvek® and co-developed 3M Changeable Opaque Imaging Media

Roll and sheetfeed, automatic cutter, take-up reel for 3500CP/3000CP

8.3 to 36-inch wide sheet, 24-inch and 36-inch rolls, Max length 150 ft  
Min sheet width: 8.3-inch, Max sheet width: 54". Max sheet length: 63"  
24-inch, 36-inch, 42-inch and 54-inch wide rolls.  
Min media length: 8.3-inch, Max Long Axis: 150 feet.

0.003"

+/- 0.01" or +/- 0.7% of vector length, whichever is greater

20 MB; 2 GB Hard Disk

8 MB

36 MB; 4.3 GB Hard Disk

12 MB

68 MB

Adobe PostScript 3, HP-GL/2, HP-RTL

HP-GL/2, HP-RTL

R12, R13 for DOS; R12, R13, R14 for all Windows (3.x, 95 & NT)

PostScript driver for Windows, (3.x, 95, NT 3.51 & 4.0) and Mac (7.1-8.0 QuickDraw)

Windows 3.x, 95 and NT 4.0

Standard: IEEE-1284 compatible parallel, Ethernet/LocalTalk

Standard: IEEE-1284 compatible parallel

Optional: HP JetDirect network interface card

Yes

2 lines by 20 characters

One year with free onsite service including preventative maintenance

## Ordering Information

### Description

### HP P/N

HP DesignJet 2500CP printer C4704A

HP DesignJet 2000CP printer C4703A

HP DesignJet 3500CP printer C4724A

HP DesignJet 3000CP printer C4723A

The above units come with a rollfeed spindle, cutter knife, and holder; HP DesignJet CP Ink System for imaging – one each of black, cyan, magenta, and yellow; two rolls of selected media; ink storage container; user documentation; and drivers.

The HP DesignJet 2500CP/3500CP printers also include a hard disk, HP JetDirect card for Ethernet/LocalTalk, and PostScript drivers for Macintosh and Windows. Interface cables must be ordered separately.

### Supplies and Accessories

### HP P/N

HP DesignJet CP Ink System:

Black C1806A

Cyan C1807A

Magenta C1808A

Yellow C1809A

HP DesignJet CP Ink System UV:

Black C1892A

Cyan C1893A

Magenta C1894A

Yellow C1895A

Ink system storage container C6236A

HP DesignJet printing materials: (36in/54in rolls)

HP Coated Paper C6020A/C6560B

HP Heavyweight Coated Paper C6022B/C6562B

HP Semi-Gloss Photo Paper C6024A/C6564A

HP High-Gloss Photo Paper C6026A/C6566A

HP Banners with Tyvek® C6787A/C6789A

HP memory expansion modules:

16-MB SIMM C6231A

32-MB SIMM C6232A

Rollfeed spindle assembly (36 in) C3173A

Rollfeed spindle assembly (54 in) C6248A

HP JetDirect Ethernet (10/100 Base-T)

Network Card J2656B

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