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## The HP 2276A, HP 2277A DeskJet and DeskJet PLUS Printers

### Technical Data

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#### Highlights

- Laser-quality output at a personal printer price
- Attractive desktop design
- Simple operation
- 1988 Datek Printer of the Year
  
- **New! HP DeskJet PLUS printer**
  - Improved print quality
  - Faster throughput
  - More built-in fonts
  - New accessory font cartridges and soft fonts
  - Taller fonts (up to 30 point)
  - Built-in landscape printing
  - DeskJet hardware and software compatible



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## Features

### Fast, reliable operation

- Laser-quality output at a personal printer price
- Multiple fonts and full-page, high-resolution graphics
- Attractive desktop design
- Simple operation
- Industry-standard compatibility

### Laser-Quality Output at a Personal Printer Price

If you want to upgrade your professional image with sophisticated, high-quality letters and documents that show you at your best, you may be thinking about acquiring a 24-wire impact printer. If so, here's a better solution for you—the *new* Hewlett-Packard DeskJet PLUS printer, for laser-quality output at a personal printer price. With the new DeskJet PLUS printer, you can quickly and quietly produce top-quality letters, reports, and spreadsheets, and graphics right at your own desk.

The new DeskJet PLUS printer offers faster throughput and improved print quality with ten built-in fonts—six portrait and four landscape. Four new font cartridges offer improved proportional spacing and character sizes up to 30 point.

### Multiple Fonts and Full-page, High-resolution Graphics

Two cartridge slots allow you to add additional font capability. So, for the look of success, you can mix and match type sizes and styles. Or merge text and graphics. And with the DeskJet PLUS printers, you can print beautiful full-page (300-dpi) graphics without additional memory.

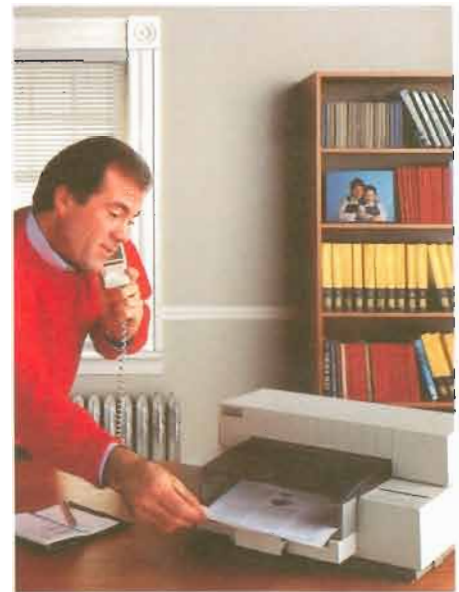
### Attractive Desktop Design, Simple Operation

Fits in your budget. Sits neatly on your desk. Compact, whisper-quiet, unobtrusive. The DeskJet PLUS printer's attractive desktop design includes a built-in sheet feeder and a recessed area where cables fit neatly out of the way.

Conveniently located in the front, the built-in automatic cut-sheet feeder allows you to easily add paper and to see when paper is getting low. The friendly printer control panel allows you to select print mode, print features, and font styles.

### Industry-standard Compatibility

Most popular personal computer software supports the HP DeskJet PLUS printers. It uses Hewlett-Packard HP PCL (printer language), which means you can use many LaserJet printer drivers as well. An optional Epson FX-80 emulation cartridge enables you to use the DeskJet PLUS printer with Epson-compatible software. Excellent support and documentation assure a quick start for everyone.



Now there are two HP DeskJet printers: The acclaimed HP DeskJet Printer, 1988 Datek Printer of the Year, and the new HP DeskJet PLUS printer. The new DeskJet PLUS printer prints text up to two times faster and graphics up to five times faster than the DeskJet printer. It offers improved print quality and larger font sizes, and built-in landscape printing. The new, higher performance HP DeskJet PLUS printer is the right printer for your office; the low cost DeskJet printer, just the printer for your office at home.

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## Specifications

### Printing Method

Plain paper drop-on-demand thermal inkjet printing

### Print Speed

Letter-quality mode: 120 cps at 10 cpi

Draft mode: 240 cps at 10 cpi

### Processor

DeskJet printer: Z80

DeskJet PLUS printer: Z180

### Command Language and Emulation

HP PCL printer language, Level 3; optional Epson FX-80 emulation

### Character Cell Structure

Letter-quality mode: 300×300 dpi, 30 (h)×50 (v)

Draft mode: 300×150 dpi, 15 (h)×50 (v)

### Graphics Resolution

Full-page 75, 100, 150, 300 dpi

### Character Sets

HP Roman 8, PC-850 (DeskJet PLUS only), PC-8 (Dn/No), ASCII, ISO 7-bit languages (German, French, Italian, Norwegian, Portuguese, Swedish, Spanish, British), JIS ASCII, ECMA-94 Latin 1, Legal.

Other character sets are available depending on font cartridge selected.

### Printing Format

Portrait

Pitch: 5, 10, 16.67, or 20, depending on printer mode and font selection

Point Size: 6 or 12, depending on font selection

Style: Upright

Landscape (internal to HP 2277A only).

Pitch: 10, 16.67, or 20, depending on printer mode and font selection

Point Size: 6, 12, 24 depending on font selection

Style: Upright

Stroke Weight: Normal or Bold, depending on font selection

Typeface (internal to printer):

Courier (HP 2276A, HP 2277A),

Courier Italic (HP 2277A)

Other print features: bold, expanded, underline, double underline, super-subscript. Also half-height and half-width, depending on printer mode and font selection.

### Paper

Size: U.S. letter (8½×11 inches), U.S. legal (8½×14), A4 (210×297 mm), #10 envelope (4⅞×9½ inches)

Weight: 16 to 24 pound

Types: HP DeskJet printers work well with most types of paper, although some variables in paper composition may significantly affect print quality and paper handling. Bond paper, such as letterhead, gives excellent quality. Paper should be tested to ensure best performance. **HP JetPaper should not be used.**

### Paper Handling

Built-in sheet feeder (up to 100 sheets)

Manual envelope feed

### Control Panel

On-line, Prime, FF (Form Feed), Envelope Feed (Up and Down Arrow Keys), Font, Mode, Up Arrow, Down Arrow, Reset

### Dual I/O Interface

Centronics parallel and RS-232 serial

### Environmental Ranges

Temperature: 10°C (50°F) to 40°C (104°F) maximum operation; 15°C (59°F) to 35°C (95°F) recommended for best print quality; -40°C (-40°F) to 60°C (140°F) storage

Humidity: 10–70% RH non-condensing

Acoustics per ISO SP 770 standard

Sound pressure level-L<sub>PA</sub>: 44 dB(A) @ 1 m bystander position

### Power Requirements

Power modules

100 volts AC (+10%, -10%)

47.5–63 Hz

120 volts AC (+10%, -10%)

47.5–63 Hz

220 volts AC (+10%, -10%)

47.5–63 Hz

240 volts AC (+10%, -10%)

47.5–63 Hz

Power consumption at 20 VAC

8 watts maximum non-printing

25 watts maximum printing

### Physical Specifications

Height: 202 mm (8 in)

Width: 440 mm (17.3 in)

Depth: 377 mm (14.8 in)

Weight: 6.5 kg (14.3 lb)

### Buffer Size

16 K bytes

### Product Certifications

Safety Certifications—Power Module:

UL, CSA, TUV or VDE, BSI, SEMKO, NEMKO, FEI, LCIE, SECV.

Safety Certifications—Printer with

Power Module: UL, CSA, TUV.

Others not required.

EMI Certifications—Printer with

Power Module: FCC Class B when

used with a Class B computing

device (USA), VDE/FTZ level B

(Germany), VCCI (Japan), SABS

(South Africa).

### Reliability and Estimated Usage

MTBF: 20,000 hours. 2,000 hours power-on and 12,000 printed pages per year. 50 pages per day average use, 60,000 page life.

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## Ordering Information

HP 2276A DeskJet printer

HP 2277A DeskJet PLUS printer

### The standard unit includes:

1 printer, 1 print cartridge, 1 external power supply, 1 acrylic paper tray cover, and owner's manual

## Interface and Cable Requirements

SYSTEM	PRINTER I/O	HOST INTERFACE	CABLE #
Vectra PC	Parallel	HP24540A Interface Card	24542D
	Serial	HP24540A Interface Card	24542G
		HP24541A Interface Card	24542G (using 9-pin connector) 13242G or 17255 M (using 25-pin connector)
HP150 PC	Serial	Built-in	13242G or 17255M
Portable PC	Serial	Built-in	92221P
	Parallel	Built-in	24542D
Vectra CS	Serial	HPD1004A Interface Card	24542G (using 9-pin connector) or 13242G (using 25-pin connector)
HP Terminals 700/41, 700/92, 700/94	Serial	Built-in	40242G
2392A, 2393A, 2394A, 2397A	Parallel	Opt 093 or HP40210P*	40242D
	Serial	Opt 092 or HP40210R*	40242G
Apple II, II+, IIe	Parallel	Apple II Parallel Interface Card or Grappler+	Apple #590-0042
Apple IIc Apple IIgs	Serial	Apple Super-serial Card	17355M or Apple #590-0037
	Serial	Built-in	92219N or Apple #590-0191
	Serial	Built-in	Apple #590-0331 or Apple #590-0169 with #590-0341
IBM PC, PC/XT	Parallel	IBM Parallel Printer Adaptor	24542D or IBM Parallel Printer Cable
IBM AT	Serial	IBM Asyn. Com. Adaptor	17255D or 13242H
	Parallel	IBM Serial/Parallel Adaptor	24542D or IBM Parallel Printer Cable
IBM PS/2	Serial	IBM Serial/Parallel Adaptor	24542G
	Parallel	Built-in	24542D
	Serial	Built-in	17255D or 13242H
IBM Convertible	Parallel	IBM Serial/Parallel Adaptor	24542D
	Serial	IBM Serial/Parallel Adaptor	17255D or 13242H

\* Host interface to order when adding DeskJet/DeskJet PLUS printer to standard terminal

## Other Accessories

HP 22707A	128 Kbyte RAM For use with DeskJet/DeskJet PLUS printer for downloading soft fonts only.
HP 22707B	256 Kbyte RAM For use with DeskJet PLUS printer for downloading soft fonts only.
HP 22707E	Emulation Cartridge Allows the HP 2276A DeskJet printer to emulate Epson FX-80 printer
HP 22707F	Emulation Cartridge Allows the HP 2277A DeskJet PLUS printer to emulate Epson FX-80 printer
HP 22707K	Landscape Upgrade For the HP 2276A DeskJet printer. Note: Landscape capability is built in to the HP 2277A DeskJet PLUS printer.
HP 92177Z	DeskJet Organizer For DeskJet and DeskJet PLUS printer supplies.
HP 92250R	DeskJet/DeskJet PLUS printer dust cover
HP 02276-90004	DeskJet owner's manual
HP 02277-90001	DeskJet PLUS owner's manual
HP 02277-90005	DeskJet PLUS foreign language owner's manual (French, German, Italian, and Spanish)

**Note: The HP 2276A DeskJet printer can access 128K RAM only and cannot utilize 30-point characters.**

For more information, call your local HP Sales Office. Or write to Hewlett-Packard: 1820 Embarcadero Road, Palo Alto, CA 94303.

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## Supplies and Accessories

Printer supplies are available at authorized HP dealers worldwide. Or, through HP's Direct Marketing Operation in the U.S. (800-538-8787).

### Print Cartridge for DeskJet and DeskJet PLUS Printers

HP 51608A Black ink print cartridge  
1,000,000 draft characters; 500,000 letter-quality characters

### Font Cartridges and Soft Fonts

#### FOR DESKJET AND DESKJET PLUS PRINTERS

HP 22706A	Courier Italic (built-in to DeskJet PLUS printer)
HP 22706B	Prestige Elite
HP 22706C	Letter Gothic
HP 22706D	TmsRmn 8 & 10 Point
HP 22706E	TmsRmn 12 Point
HP 22706F	TmsRmn 14 Point
HP 22706G	Helv 8 & 10 Point
HP 22706H	Helv 12 Point
HP 22706J	Helv 14 Point
HP 22707L	Landscape Fonts (Additional fonts for DeskJet printer when using HP 22707K Landscape Upgrade cartridge.)
HP 22706M*	Presentations 18 Point
HP 22706P*	TmsRmn 8/10/12/14 Point
HP 22706Q*	Helv 8/10/12/14 Point
HP 22708A†	TmsRmn/Helv Soft Font
HP 22708C‡	TmsRmn/Helv Soft Font
HP 22708D‡	Univers Soft Font

#### FOR DESKJET PLUS PRINTERS ONLY

**DeskJet PLUS font cartridges offer improved print quality and are not for use on the DeskJet HP 2276A printer.**

HP 22706R	Tms Rmn 8/10/12/14 Point (equivalent to 22706D/E/F/P)
HP 22706T	Helv 8/10/12/14 Point (equivalent to 22706G/H/J/Q)
HP 22706U*	TmsRmn 30 Point Headlines
HP 22706V*	Helv 30 Point Headlines

\*This font cartridge contains ASCII characters only and may not be suitable for use in countries requiring non-English characters and symbols.

†Requires an additional 128K or 256K of RAM, depending on application.

‡Fonts larger than 14 points cannot be accessed on DeskJet printers.