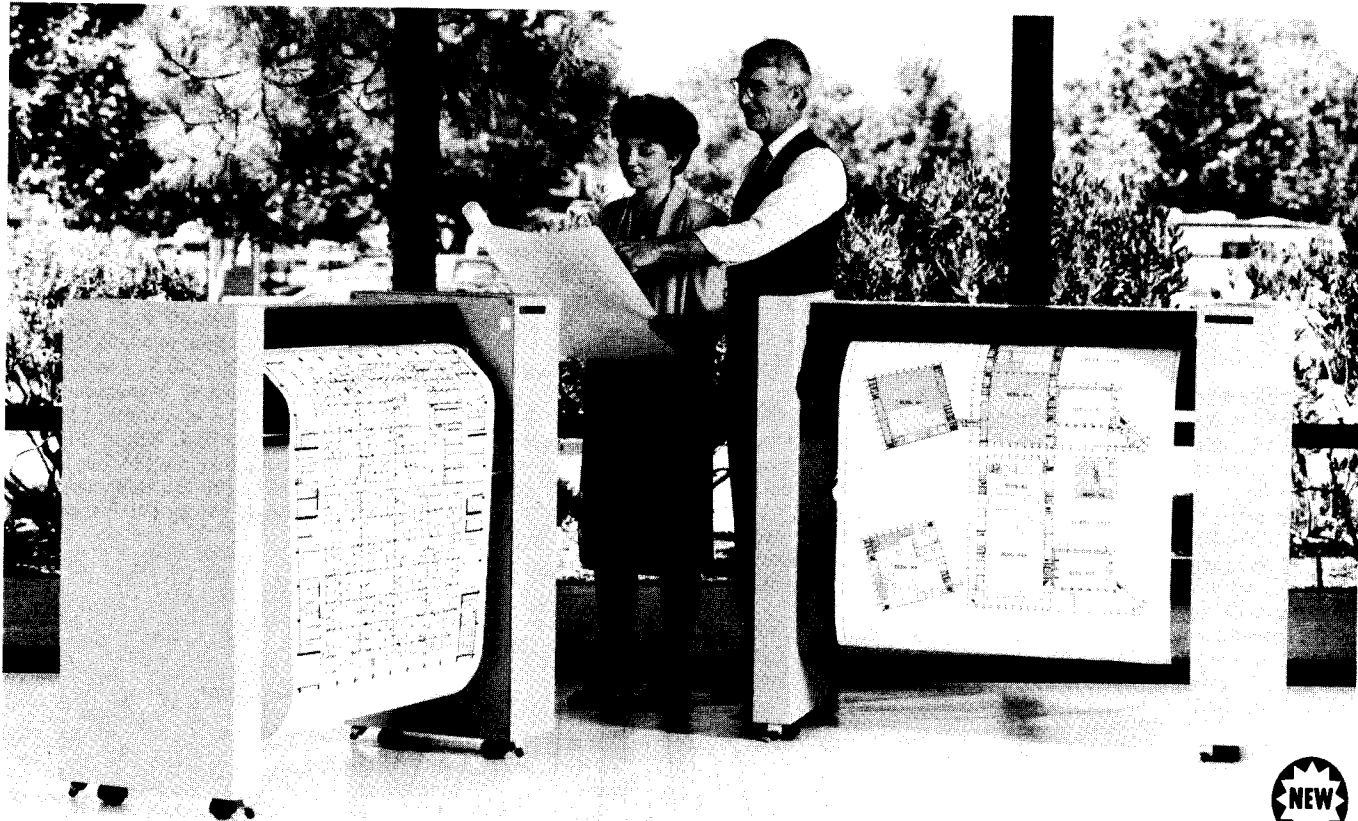


COMPUTER PERIPHERALS

Plotters—High Performance, A4/A through A0/E size Drafting Plotters

HP DraftMaster I and DraftMaster II

- High throughput; up to 5.7 g acceleration
- Built-in intelligence
- Superb line quality
- Triple interface: RS-232-C, RS-422-A, HP-IB
- HP 758XB emulation
- Accepts eight standard media sizes



Hewlett-Packard has created a new generation of drafting plotters to meet the high-performance requirements that today's CAD environments demand — the DraftMaster I and the roll-feed DraftMaster II plotters. HP DraftMaster plotters combine state-of-the-art hardware with the latest in drafting technology at a price that's less than you'd expect.

Exceptional Performance

Your drafting productivity is directly affected by plotter throughput. With a maximum pen speed of 60 cm/s (24 in./s) acceleration of up to 5.7 g, and a host of built-in intelligence features, the HP DraftMaster's plotting power gets the job done fast to keep you on schedule.

HP's pen sorting function trims plotting time by minimizing pen changes. The DraftMaster plotter scans your entire plot program to combine pen-up moves wherever possible. The bi-directional plotting feature further increases drawing efficiency by automatically starting the next line segment at its nearest endpoint. And the powerful 10 MHz 16-bit microprocessor enables the HP DraftMaster to draw numerous short lines quickly, a real advantage for lettering.

High throughput is essential in shared environments, especially when several users who share a plotter are facing the same deadlines. HP DraftMaster is designed to meet the increased demands of a multi-user system.

Superb Line Quality

No matter how demanding your application — a complex IC or PCB plot, a precise mechanical part design, a detailed architectural drawing — HP DraftMaster showcases your work with the best line quality available. With an addressable resolution of 0.025 mm (0.00098 in.) and repeatability of 0.10 mm (0.004 in.), you can be sure your design will have a first-class presentation.

Roll-feed Capability on HP DraftMaster II Plotter

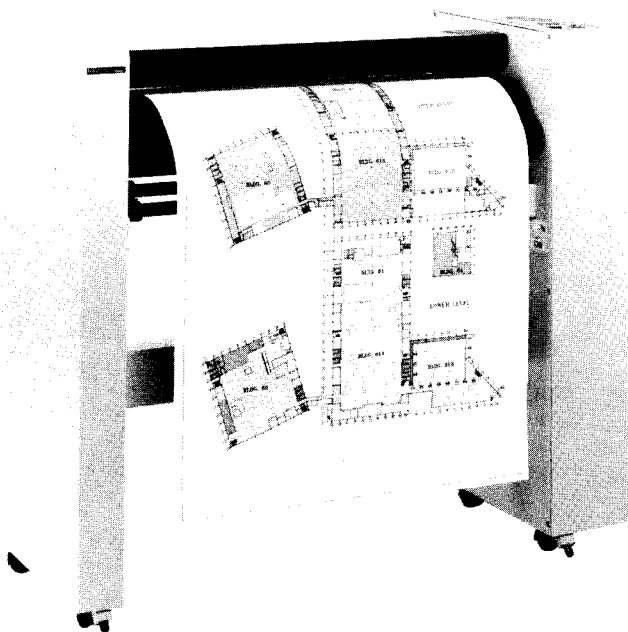
HP DraftMaster II is designed for high-volume, continuous feed, and long-axis plotting. HP DraftMaster II's roll-feed capability keeps productivity humming at peak levels when several users share a plotter. You can store the completed drawings neatly on the take-up roll, or cut them off one at a time with the built-in media cutter.

When your work requires unattended roll-feed plotting, you can use the DraftMaster plotter's "group pen" function. You can plot up to eight times longer on single-color plots (or four times longer on two-color plots) without stopping to reload the pen carousel. After the first pen has plotted a preset distance, the DraftMaster plotter automatically switches to the next pen in that group. A roll-feed upgrade kit is available for the HP DraftMaster I.

Simple Operation

HP DraftMaster plotters are designed for fast and convenient operation with easy, common-sense controls. The 32-character liquid crystal display (LCD) presents easy-to-follow command menus in six major languages.

A convenient loading lever makes media handling fast and uncomplicated. Plus, HP DraftMaster senses media size and automatically scales plot size to fit, so there's no worry about pens drawing off the page. DraftMaster's generous eight-pen carousels eliminate time-consuming manual pen changes. And pens are always capped automatically to prevent ink from drying out. You won't have to reset pen speed and force when you change carousels, either — HP DraftMaster senses the type of carousel and automatically adjusts speed and force.



Pen, Media Flexibility

With the HP DraftMaster Plotter, you can choose from vellum, polyester film, tracing bond, paper, and even transparency film and glossy paper, in A4/A through A0/E-size cut sheets. The HP DraftMaster II also plots on continuous rolls for high-volume, unattended operation, as well as long-axis plotting.

All HP pens and media are carefully designed and tested to give you top-quality results from your HP plotter. HP pens are available in a wide variety of point sizes and colors; the DraftMaster plotter accepts your choice of fiber-tip, roller-ball, and drafting pens (both disposable and refillable).

Compatibility

Whether you have a personal computer, technical workstation, minicomputer, or mainframe, you can add an HP DraftMaster plotter to your system. For maximum hardware compatibility, all HP DraftMaster plotters come with a triple interface — both RS-232-C/CCITT V.24 and HP-IB (IEEE 488-1978), as well as RS-422-A for longer distance computer connections. And HP DraftMaster plotters have full cavedrop capability (dual serial I/O for terminal configurations).

HP 758XB Emulation Mode

There's a tremendous amount of software already available for the DraftMaster plotters because all of the software written for the HP 7585B and 7586B drafting plotters will run on the HP DraftMaster I and II. Just the touch of a button engages HP's proprietary software emulation feature.

International Design

The LCD menu can prompt in any of six languages: English (default), French, German, Italian, Spanish, and Japanese. The front-panel buttons are labeled with symbols instead of words. And when programming with HP-GL (Hewlett-Packard Graphics Language) commands, users can select from over 20 international character sets in three fonts.

Specifications

Media sizes: ranges include ISO sizes A0 through A4, ANSI sizes A through E, and architectural sizes, as well as oversized media. DraftMaster I (sheets only); acceptable media widths; 207-381 mm (8.15-15 in.), 539-713 mm (21.22-28.07 in.), 753-927 mm (29.65-36.5 in.). DraftMaster II (same sheet sizes as listed above, plus these roll sizes); width, 609.6 mm (24 in.), 914.4 mm (36 in.); length, 46

metres (150 ft). Maximum frame lengths, 609.6 mm (24 in.) rolls, 914.4 mm (36 in.), 938.4 mm (36.9 in.) rolls, 1243.2 mm (48.9 in.)

Margins (sheets only): normal mode; three margins approx. 15 mm (0.59 in.) each, fourth margin approx. 39 mm (1.54 in.). Expanded mode; three margins approx. 5 mm (0.2 in.) each, fourth margin approx. 29 mm (1.14 in.)

Resolution: smallest addressable step size, 0.025 mm (0.00098 in.)

Repeatability (for a given pen): 0.025 mm (0.00098 in.)

Accuracy: 0.09% of the move or 0.25 mm (0.0098 in.), whichever is greater.

Pen velocity: pen up/down, 60 cm/s (24 in./s) independent of vector direction

Acceleration: maximum, 5.7 g (55.6 m/s²) on diagonal; 4 g per axis; programmable, 2 or 4 g (19.4 or 39 m/s²)

Pen force: programmable or front panel selectable; 15-66 grams

Power requirements: Source, 100, 120, 220, 240, V \pm 10%; frequency 48-66 Hz; consumption, 105 W maximum.

Interfaces: HP-IB (IEEE 488-1978), RS-232-C/CCITT V.24, RS-422-A

Buffer size: 25 K (configurable)

Environmental range: operating temperature, 0° to 55° C; non-operating temperature, -40° to -75° C; relative humidity, sheets, 5-95%; rolls, 30-70%.

Size: height, 119.4 cm (47 in.); width, 134.6 cm (53 in.); depth, 50.8 cm (20 in.)

Weight: DraftMaster I, 73 kg (160 lb); DraftMaster II, 75 kg (164 lb)

Pens: 8 in carousel; automatic pen changing and capping; automatic setting. Fiber-tip, roller-ball, long-body drafting (refillable or disposable)

Media: Vellum, double-matte polyester film, tracing bond, plotter paper, transparency film, and glossy paper.

Accessories Supplied

Description	HP Part No.
User's Guide	07595-90002
Pocket Guide (available in English only)	07595-90003
Drafting Supplies Catalog	5957-3776D
	5957-3777
Paper sampler, Architectural D size (5)	9280-9050
Adjustable carousel (2)	5062-1576
Disposable pen adapters (4)	5061-7578
Disposable vellum pens (4)	5061-7566
Roller-ball pens (4)	5061-5037
Fiber-tip pens (10)	17845P
Grit-wheel brush	07595-20085
Power cord (appropriate cord supplies based on destination)	

Additional Accessories Supplied with DraftMaster II

Description	HP Part No.
914.4 mm (36 in.) paper spool	9300-1069
Paper roll sampler, 914.4 mm (36 in.) wide, 1143 mm (45 ft) long	9280-0736
Media cutters (5)	07596-60008

Ordering Information

	Price
HP 7595A DraftMaster I plotter (sheet feed only)	\$8,495
HP 7596A DraftMaster II plotter (sheet feed and roll-feed)	\$10,995

Accessories Available

Description	HP Part No.
Programmer's Reference (available in English only)	07595-90001
Roll-feed Upgrade Kit (HP DraftMaster I only; must be installed by qualified serviceperson)	17520A
Kanji Retrofit Kit (must be installed by qualified serviceperson)	17521A
HP Industry Standard Plotting Package (software)	17580C