

**Hewlett-Packard**  
**Guide to**

*graphics*  
*plotters*



# We have the plotter for you

Small

Information in graphic form can be communicated many times faster than information in written form. That's why computer graphics are the perfect way to analyze and communicate information.

To help improve your communications, Hewlett-Packard has an entire family of plotters that produce permanent copies of computer graphics data. Whether your application calls for simple pie charts or complex schematics, HP has the plotter for you.

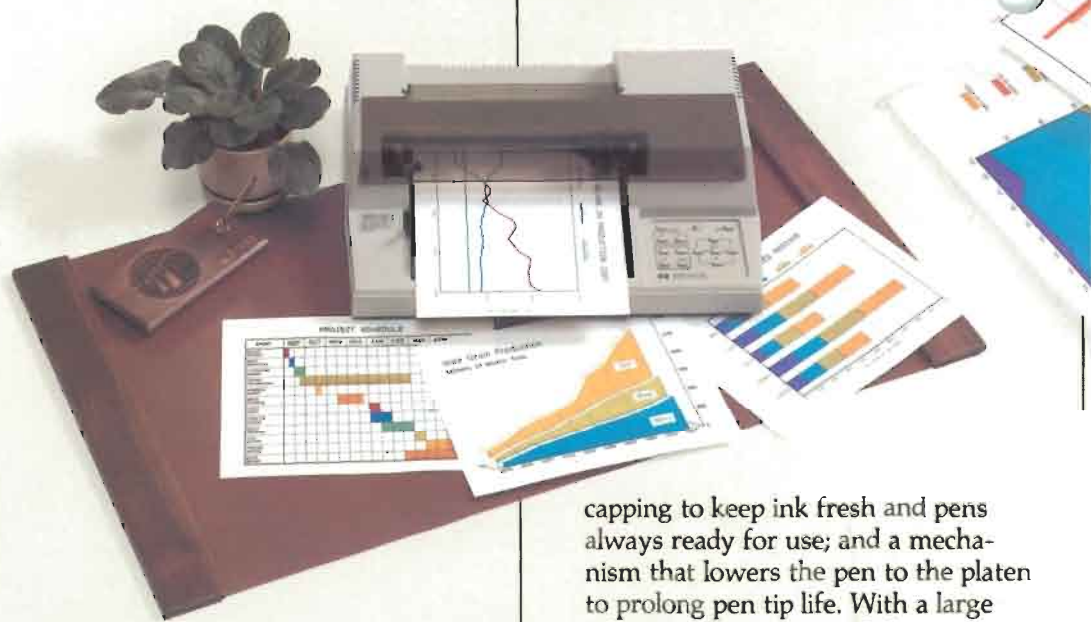
It's easy to make colorful graphs and charts on paper and transparency film with Hewlett-Packard plotters.

An array of graphics software written for HP plotters means that you can produce professional graphics with almost any computer — no programming necessary.

If you want to do your own programming, HP plotters contain a powerful graphics language, HP-GL, to simplify your task.

With HP's micro-grip drive technology, both paper and pen move to provide fast, top quality results. Most graphs are drawn in just a few minutes!

Features include convenient paper loading to save you time and effort; automatic pen



capping to keep ink fresh and pens always ready for use; and a mechanism that lowers the pen to the platen to prolong pen tip life. With a large selection of international characters, you can make charts in many local languages.

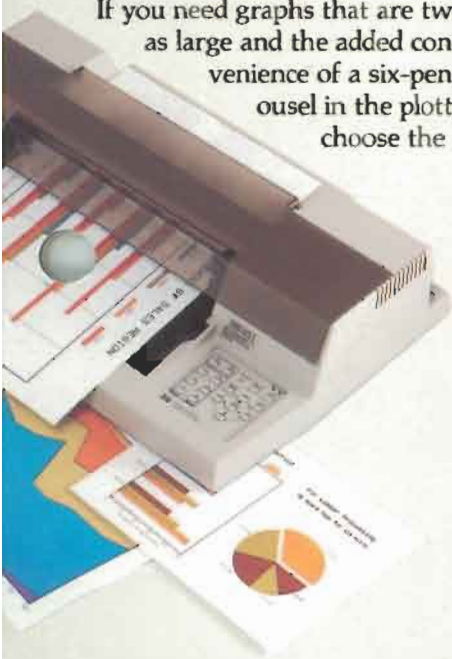


## Plotters

*Turn your computer into a graphics artist*

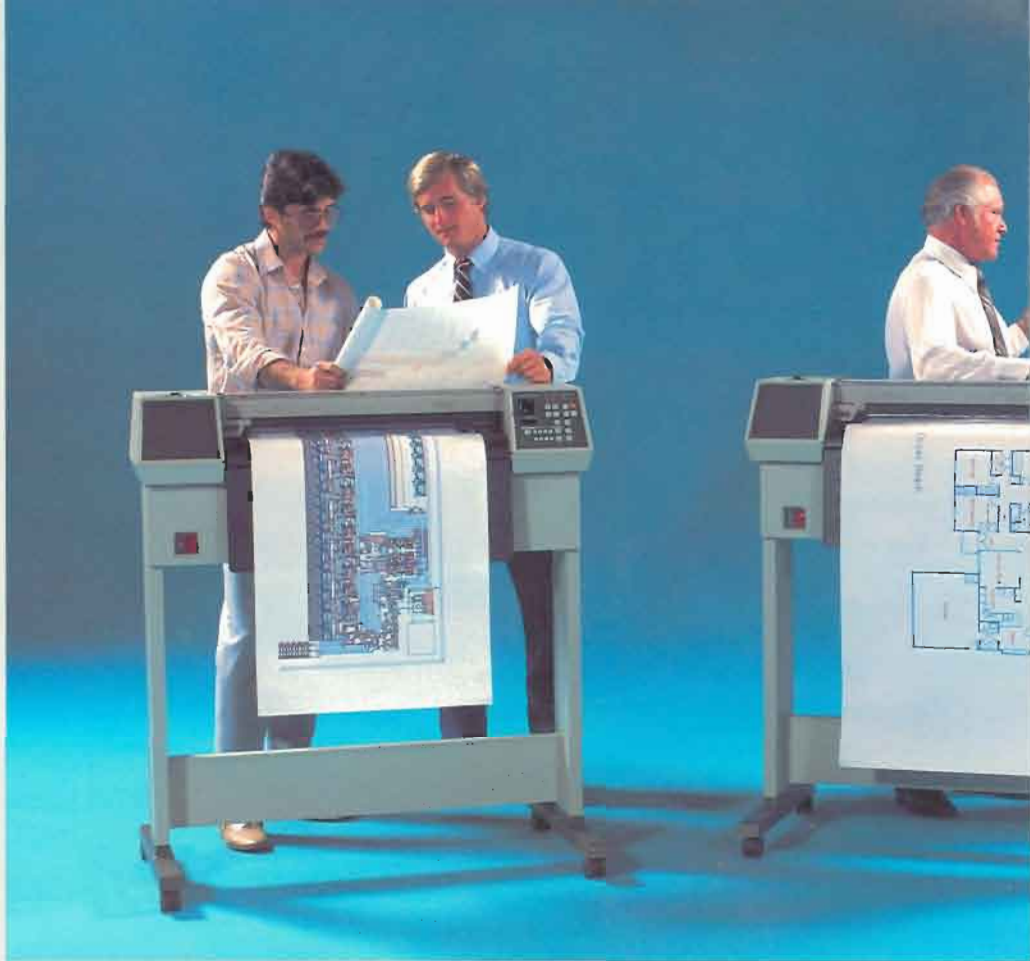
Hewlett-Packard has three small plotters. The economical HP 7470A two-pen plotter draws on both notebook-size paper and transparency film for overhead projection. If you need more than two colors, just stop the HP 7470A, snap in another pen, and continue plotting.

If you need graphs that are twice as large and the added convenience of a six-pen carousel in the plotter, choose the



HP 7475A. It's the perfect choice for the busy professional who needs versatility.

When you want the ultimate in speed and convenience, our high performance HP 7550A is the only plotter that automatically feeds sheets of paper and transparency film. Other features include a replot function that allows you to make up to 99 copies of most graphs without rerunning the program — this frees your computer other tasks. Exceptional pen speed



means that the HP 7550A can produce a drawing almost twice as fast as other small plotters. Because the HP 7550A can accommodate drafting media and pens, it's often used by engineers to make final design drawings. All these features combine to make the HP 7550A the perfect plotter for high-volume or shared environments.

## Drafting

Whether you're an engineer, architect, or designer, you'll find an HP drafting plotter to fit your application.

HP drafting plotters save you valuable time with many convenient features. It typically takes only four buttons to make the plotter work for you. After you load the media, the plotter senses sheet size and sets plot parameters — automatically. The plotter then senses the pen type and sets appropriate values for velocity, acceleration, and pen force. And HP drafting plotters are supported by most CAD software packages on a variety of computers.

HP's micro-grip drive technology permits the use of smaller, more efficient motors and lightweight components. This means HP plotters are energy efficient and can easily be moved.



### Three drafting plotters to choose from

Hewlett-Packard has three drafting plotters: one is tailored to your needs. The HP 7580B is the cost conscious choice for single sheet A1/D drawings. If you need larger A0/E drawings, add the HP 7585B to your system.

For applications that require both sheets and rolls, the HP 7586B performs double-duty for you. Designed for high volume work and long-axis plotting, the HP 7586B functions as both a single-sheet plotter and a roll-feed plotter. You can make drawings up to 46 m (150 ft.) long on media up to 919 mm (36.2 in.) wide. To assure high accuracy, the HP 7586B has a built-in accuracy calibration routine. For exceptional flexibility, choose the HP 7586B.

### HP plotters are tailored to your needs

Every Hewlett-Packard graphics plotter is delivered ready for immediate use.

Because HP plotters are used around the world, each plotter is customized to meet the needs of your location and comes with either a 110- or 220-volt power cord.

A media sampler with pens is shipped with each plotter so you'll have the supplies necessary to start making colorful graphics or drawings on your very first day.

Completing your accessories package is thorough documentation. Included is an interfacing and programming manual, an operator's manual, and a plotter pocket guide. Much of this literature is available in multiple languages.

## Plotters

### Unsurpassed quality with precision and speed

The addressable resolution of an HP drafting plotter (the smallest line segment it can draw) is 0.025 mm (0.000984 in.). For you this means straight lines, smooth arcs, and perfectly formed characters.

To help you meet tight deadlines, HP drafting plotters have a labeling speed of 6-8 characters per second — among the fastest in their price range.

Additional features include an eight-pen carousel with automatic pen capping, a wide choice of media and pen types, 21 character sets in three writing styles, downloadable characters for defining special symbols, extensive HP-GL commands, an 18K byte buffer, and a switch-selectable interface for RS-232-C/CCITT V.24 and HP-IB/IEEE-488 computers.



...and more

### *HP supplies make good graphics even better*

Hewlett-Packard papers, pens, and plotters work together to provide you with the highest quality graphics. Our pens, papers, and films are manufactured to exacting standards to give you the results you expect.

HP offers plain plotter paper, high-gloss presentation paper, fast-dry overhead transparency film, vellum, polyester film, and tracing bond. Sheets come in standard metric (ISO) and English (ANSI) sizes. Roll media for drafting plotters is available in two widths.



#### STANDARD PAPER SIZES

ISO (mm)	ANSI (inches)
A4 210×297	A 8½×11
A3 297×420	B 11×17
A2 420×594	C 17×22
A1 594×841	D 22×34
A0 841×1189	E 34×44

### *HP pens for all applications*

We manufacture our own fiber-tip, roller-ball, and liquid-ink drafting pens. Pens come in a spectrum of colors with various tip widths for bold and fine lines.

To receive a complete catalog of Hewlett-Packard plotting and computer supplies, check the appropriate box on the reply card.

### *Software makes plotting easy*

Much of today's graphics software is menu-driven and so user-friendly that you don't have to be a programmer to create useful graphics. Our plotters are supported by many graphics software packages including HP Series 100/Graphics, 1-2-3™, ChartMaster™, Graphwriter™, Picture Perfect, AutoCAD™, SAS/GRAPH, and TELL-A-GRAF®. Ask your HP sales representative about the software best suited to your applications.

For customized applications, you'll appreciate the intelligence of HP plotters. Built into every HP plotter is a simple, yet powerful, graphics language called Hewlett-Packard Graphics Language (HP-GL). HP-GL lets you perform complex plotting tasks with minimal effort. With just a little programming skill, you can

custom design a plotting routine to fit a specific need. For example, on some HP plotters, a single HP-GL instruction draws a circle — just two HP-GL instructions define and fill an irregular polygon. That's a real time savings for both you and your computer.

HP-GL also makes graphics software development easier for those who want to write one software driver for our entire plotter line.

Don't worry about HP plotter compatibility with your computer. A choice of two interfaces (RS-232-C/CCITT V.24 and HP-IB/IEEE-488) makes our plotters compatible with almost any computer.

### *Hewlett-Packard is dedicated to excellence*

For almost two decades, Hewlett-Packard has been making graphics plotters. HP plotters are the industry standard and HP's reputation for quality and reliability is unsurpassed. Although our plotters are on the forefront of technology, we never sacrifice reliability for technical wizardry. Product integrity is Hewlett-Packard's number one priority.

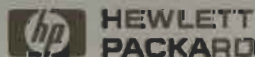
You are assured of low maintenance costs and a machine that meets high performance standards throughout its lifetime. HP plotters are built to last!

Should you ever need service for your HP plotter, we have over 180 service facilities in 31 countries. In fact, more than 75 percent of our customers are within 25 miles of an HP service office.

Hewlett-Packard is dedicated to customer satisfaction. When you want the finest plotter available, choose Hewlett-Packard.

# HP Family of Plotters

	HP 7470A	HP 7475A	HP 7550A	HP 7580B HP 7585B	HP 7586B
<b>Number of pens</b>	2	6	8	8	8
<b>Pen types</b>	Paper, transparency	Paper, transparency	Paper, transparency, liquid-ink, roller-ball	Paper, liquid-ink, roller-ball	Paper, liquid-ink, roller-ball
<b>Media sizes</b>	A4/A	A4/A, A3/B	A4/A, A3/B	A4/A, A3/B, A2/C, A1/D, (A0/E HP 7585B only)	A4/A, A3/B, A2/C, A1/D, A0/E, and rolls
<b>Media types</b>	Paper, transparency film	Paper, transparency film	Paper, transparency film, vellum, polyester film	Paper, tracing bond, vellum, polyester film	Paper, tracing bond, vellum, polyester film
<b>Media load methods</b>	Manual sheet loading for above media types	Manual sheet loading for above media types	Manual sheet loading for above media types  Automatic sheet feed for paper and transparency film	Manual sheet loading for above media types	Manual sheet loading for above media types  Automatic roll feed for above media types except tracing bond
<b>Pen speed</b>	38.1 cm/s (15 in./s)	38.1 cm/s (15 in./s)	80 cm/s (31.5 in./s)	60 cm/s (24 in./s)	60 cm/s (24 in./s)
<b>Pen acceleration</b>	2 g	2 g	6 g	4 g	4 g
<b>Labeling speed</b>	2-3 cps	2-3 cps	7-9 cps	6-8 cps	6-8 cps
<b>Lettering styles</b>	Stick characters, fixed spacing	Stick characters, fixed spacing	Stick characters, fixed spacing  Arc characters, proportional spacing	Stick characters, fixed spacing  Arc characters, proportional spacing  Arc characters, fixed spacing	Stick characters, fixed spacing  Arc characters, proportional spacing  Arc characters, fixed spacing



For more information, call your local HP sales office listed in the telephone directory white pages. Ask for a computer representative. Or write to Hewlett-Packard, U.S.A. — P.O. Box 10301, Palo Alto, CA 94303-0890. Europe — P.O. Box 999, 1180 AZ Amstelveen, The Netherlands. Canada — 6877 Goreway Drive, Mississauga, L4V 1M8, Ontario. Japan — Yokogawa-Hewlett-Packard Ltd., 3-29-21, Takaido-Higashi, Suginami-ku, Tokyo 168. Elsewhere in the world, write to Hewlett-Packard Intercontinental, 3495 Deer Creek Road, Palo Alto, CA 94304.