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# HP DraftPro Plus Large-Format Pen Plotter

## Product Brief

**The first-time plotter  
that's built to last**

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Whether you are thinking about buying your very first pen plotter, or as an experienced user you are simply looking for an affordable, high-quality plotting solution, the HP DraftPro Plus is designed for you.

Its combination of features, at a very competitive price, makes it a versatile plotter suitable for a wide range of users.

Add to that Hewlett-Packard reliability that has made our plotters the long-time leaders in the industry, and you've got the plotter that gives years and years of dependable, high-quality plotting.

**Quality plotting,  
right down the line.**

The HP DraftPro Plus plotter offers a range of features designed to bring you the high-quality, professional plotting that today's CAD environments demand.

With a mechanical resolution of 0.013 mm (0.0005 in) and addressable resolution of 0.025 mm (0.001 in), the HP DraftPro Plus delivers well-defined lines and crisp characters. In addition, an algorithm specially developed by Hewlett-Packard produces extra-smooth curves and cleaner corners as it further enhances overall line quality.

**Proven performance,  
on paper – and in practice.**

All too often you read about plotting speeds which look good on paper but never quite live up to the claims. This is because your pen plotter's overall performance is made up of more than just speed.

The HP DraftPro Plus plotter combines all the necessary elements to produce truly dependable performance. As well as a 3.0 g. maximum acceleration and 110 cm/s (43 ips) maximum velocity, the HP DraftPro Plus has a fast pen up/down mechanism and a special pen sorting feature which minimizes pen changes for more efficient plotting.

A drawing quality option allows you to choose between draft mode for high speed plots, especially suitable for check plots, and a quality mode which slows the pen speed to enhance plot quality when required.

**Professional plotting  
at your fingertips.**

One of the special features of the all-new design of the HP DraftPro Plus is its new front panel. It has an easy-to-read vacuum fluorescent display, immediate-action keys, and direct-access menu keys for fast access to the plotter's many functions. For even more convenience, the menu system operates on two levels – a short menu containing only the most commonly used functions, and a full menu which incorporates all 26 functions.

This extended capability allows you to carry out a wide range of plotting tasks quickly and easily, and will ensure that the HP DraftPro Plus will continue to meet your needs as your workload grows.

**As versatile as the work you do.**

Whatever type of plotting you need to do, you'll find that the HP DraftPro Plus has the pen and media flexibility to get the job done.

Available in D/AI- and E/A0-size, each model supports four types of pens – fiber tips for both paper and transparency, refillable drafting pens, and HP SurePlot disposable drafting pens.

Media support is equally extensive, covering plotter paper, vellum, translucent media, double-matte polyester film, and transparency film.

In addition, a continuous grit wheel permits you to plot non-standard size drawings, too.

**Making the right connections.**

The HP DraftPro Plus has been designed to be compatible with a wide variety of hardware and software, and connects easily to almost all types of PCs and workstations.

The plotter implements HP-GL/2 graphics language, which through its special data compaction feature creates smaller plot files, reducing file transmission time. For those software packages that may not support HP-GL/2, an HP-GL emulation mode is also provided.



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**[www.hpmuseum.net](http://www.hpmuseum.net)**

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## Performance Characteristics

<b>Media sizes</b>		Ranges include ISO sizes A4 through A0, ANSI sizes A through E, plus architectural sizes and oversized media.
	D/A1-size	Widths from 207 mm (8.16 in) to 635 mm (25.02 in) Lengths from 210 mm (8.28 in) to 1600 mm (63 in)
	E/A0-size	Widths from 207 mm (8.16 in) to 918 mm (36.17 in) Lengths from 210 mm (8.28 in) to 1600 mm (63 in)
<b>Pens</b>	Number	8 in a carousel
	Type	Fiber-tip (paper and transparency), disposable drafting, refillable drafting.
<b>Media</b>		Paper, vellum, double-matte polyester film, glossy paper, translucent bond and transparency film.
<b>Resolution</b>	Addressable	0.025 mm (0.001 in)
	Mechanical	0.013 mm (0.0005 in)
<b>Repeatability Accuracy</b>		For the same pen: 0.1 mm (0.004 in) 0.5 mm (0.02 in) or 0.2% of the specified line length whichever is greater. (These specifications are for 0.075 mm (0.003 in) double-matte polyester film from 10° to 30° C)
<b>Pen Velocity Acceleration</b>		Maximum pen speed: 110 cm/s (43 ips) 3.0 g maximum
<b>Margins</b>	Expanded Mode	5.0 mm (0.2 in) on three edges, 31.0 mm (1.2 in) on the fourth.
	Normal Mode	15.0 mm (0.59 in) on three edges, 39.0 mm (1.5 in) on the fourth.
<b>Buffer Size</b>		1 MB
<b>Interfaces</b>		Centronics parallel and RS-232-C serial

## Environmental Ranges

<b>Temperature</b>	Operating	0 to 55 degrees C (32 to 131 degrees F)
	Storage	-40 to 70 degrees C (-40 to 158 degrees F)
<b>Humidity</b>	Operating	5 to 90% relative humidity at 22 degrees C
	Recommended	20 to 80% relative humidity at 22 degrees C

## Power Requirements

<b>Source</b>	100 through 240 V, ±10%, wide range
<b>Frequency</b>	48 through 63 Hz
<b>Consumption</b>	95 W maximum

## Physical Specifications

<b>Width x Depth x Height</b>	D/A1-size	1161 mm x 686 mm x 1240 mm (46 in x 27 in x 49 in)
	E/A0-size	1445 mm x 686 mm x 1240 mm (57 in x 27 in x 49 in)
<b>Weight</b>	D/A1-size	Net weight: 47 kg (104 lb), shipping weight 66 kg (146 lb)
	E/A0-size	Net weight: 53 kg (117 lb), shipping weight 75 kg (165 lb)

## Product Certifications

<b>Safety</b>	UL listed, CSA and NOM certified, NEMKO approved, German Noise Declaration, EN 60950 compliant.
<b>EMC</b>	FCC Class B certified, registered VCCI Class 2, UK general approval, DOC compliant, 89 / 336 / EEC EMC Directive compliant, Korea RRL certified.

An expanded RS-232-C serial interface (up to 19,200 bauds) and an even faster Centronics parallel interface, together with the 1 MB standard buffer, all combine to greatly reduce lock-out time and free up your computer quickly.

The HP DraftPro Plus comes complete with HP-GL/2 software drivers for AutoCAD Releases 10, 11, and 12.

### Tried and tested – so you won't be.

At Hewlett-Packard we understand that equipment downtime can be a frustrating waste of time and money. So you can be sure that all HP DraftPro Plus plotters meet the same tough standards for quality and reliability that have made our plotters the leaders in the industry. In fact, we are so sure about their reliability that each one comes with a 3-year, onsite warranty and low onsite service contract prices.

### Price isn't always everything.

When buying a plotter, it's important to remember that price means not just the purchase cost, but also the ongoing costs of operation and maintenance. Ideally you are looking for a plotter that delivers the quality and dependability you need – at a total price you can afford.

We at Hewlett-Packard think the same way. An affordable plotter with the ability to keep pace with your growing needs.

That's the HP DraftPro Plus.

## Ordering Information

Description	HP p/n
HP DraftPro Plus large-format drafting plotter	
D/A1- size	C3170A
E/A0- size	C3171A

**Note:** Interface cables must be ordered separately. Refer to the HP CAD Plotters Software/Hardware Guide for information about specific interface and cable requirements.

## Accessories Included

Setup Guide  
User's Guide  
Power cord (appropriate to plotter destination)  
Assorted pens and media  
Adjustable pen carousels (2)  
Grit wheel brush  
Plotter supplies catalog  
Configuration note(s) for specific application software  
AutoCAD HP-GL/2 driver disks  
Front panel overlay

## Accessories Available

Description	HP Part Number
HP DraftMaster Programmer's Reference Manual (for HP-GL users)	07595-90001
HP-GL/2 Reference Guide	5959-9733
HP DraftPro Plus User's Guide	C3170-90031

Complete list of available supplies can be found in the Supplies Source catalogue that comes with your plotter.

Hewlett-Packard peripherals and personal computers are available at HP authorized dealers worldwide. In North America, call toll-free for the HP authorized dealer nearest you:

<b>United States</b>	<b>Canada</b>
1-800-752-0900	1-800-387-3867

HP supplies and accessories are available at HP authorized dealers and many local computer or office supply stores. Check the yellow pages under Computer Supplies or Office Supplies or see your local HP authorized dealer.

For information outside North America, call the local HP sales office listed in your telephone directory.

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