SUPPLIES • ACCESSORIES • FURNITURE • CABLES • SOFTWARE

HEWLETT PACKARD

COMPUTER USERS CATALOG

Summer 1987

HP computers monitor sales of Levi's jeans throughout the world.
SEE INSIDE COVER FOR DETAILS.

CALL HP DIRECT
Fast, easy ordering
800-538-8787
We ship within 24 hours

Disc prices reduced
SAVE UP TO 31%
on quantity purchases of 3.5" and 5.25" discs
DETAILS ON PAGE 59.

HP Computer Museum
www.hpmuseum.net

For research and education purposes only.

We're here to guarantee

Dear Valued Customer:

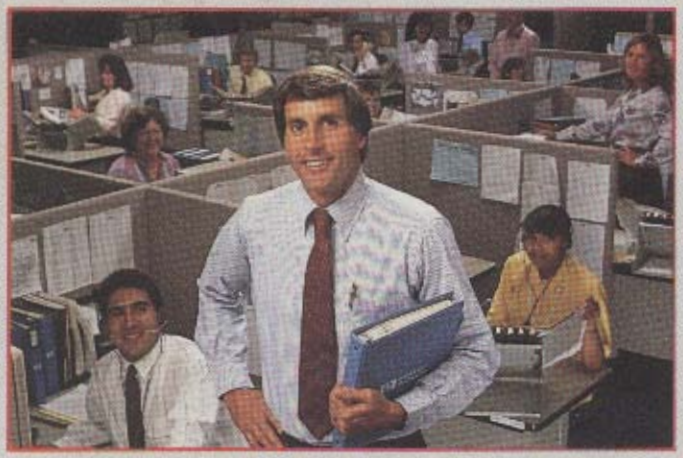
Fifteen-year guarantee? Lifetime guarantee? Whose life? And at what cost?

When I see overly-aggressive guarantees, I wonder who's kidding whom. HP's brand of conservative engineering excellence doesn't allow for such hyperbole. If we can't back a promise with solid measurements and data, we don't make that promise—even if it keeps us from telling impressive stories.

We'd rather match technological excellence with a strong desire to serve customers well, then listen to *your* story. Like the one on pages 58 and 59 from a couple of our magnetic media customers. They have great success with our media, and why not? It's built to our specs to last longer, wear drive heads less, and protect data integrity better.

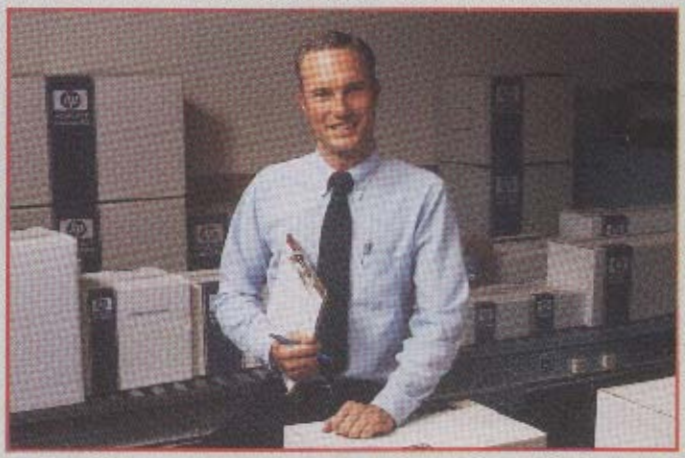
Our HP-IB cables are another success story. Designed by HP for HP equipment, they have double shielding and special grounding on the connectors. You may not recognize the importance of this unless your cables handle a megabyte-per-second throughput on a regular basis. But if your PC has unexplained

...That's priority one at HP DIRECT!



Larry Curfman, *Telemarketing Manager:* Here in the Sales Center, we strive to make ordering fast and easy. Our sales specialists are trained to answer questions expertly, take orders efficiently, and let you know when to expect delivery. What's more, we now respond to calls a full 50 percent quicker! We want your experience with us to be a pleasant one. Give us a call—I know you'll be satisfied.

Larry Curfman



Craig Clark, *Distribution Manager:* We recognize the value of your time *and* your money. That's why our Distribution Department strives toward service that's consistently good. We manage our inventory well enough to offer same-day shipment at no additional charge, and expedited delivery for just a little extra. If ever a shipment fails to meet your expectations, just call me. I'll see that you're satisfied.

Craig A Clark

On the cover: **At Levi Strauss International, sales and distribution activities, focusing on the Top 20 products and accounts, are monitored via a unique Management Support System that runs on HP 3000s. Designed for ease of use, this system offers decision-making information to senior management at the touch of a few keystrokes. Daily "snapshots" of key performance indicators such as cash-flow, inventory status and order trends enable local management to identify opportunities and potential problems. The addition of HP Graphics Gallery software, an HP plotter and an HP Vectra PC further simplifies decision-making by translating complex data into colorful graphs.**

your satisfaction...

dropouts, memory loss or other intermittent problems, you'd better check your cables. If HP made them, I *guarantee* they won't be the source of your problems.

We don't make promises we can't keep, or tell stories we can't back. Because we're not just selling supplies. We sell HP.

Yours truly,

William E. Carleton
HP DIRECT
General Manager

PS: Speaking of HP innovation, wait 'til you see what's inside—a great new Plotter Sound Enclosure, Surge Suppressor, LaserJet Printer Cabinet, and a range of other supplies to make your computer equipment more valuable than ever!

Gleane Harding, *Marketing Manager:* Since you chose Hewlett-Packard computer equipment, you no doubt recognize the HP logo as a symbol of quality and value. You can expect the same high level of quality from HP DIRECT, because we only offer products that give the best results with HP equipment. If you're ever less than satisfied, call me. Your satisfaction is priority one!

Gleane Harding

Contents

New products	II
Printers	2
Plotters	25
Cables	40
Discs & tape products	57
Furniture	73
Calculators, PC supplies & terminals	100
Books	118
Data communication & power conditioners	127
Ordering information	See blue section
Sales offices	See blue section
Trademarks	See blue section
Alphabetical index	See blue section
Equipment index	See blue section
Numerical index	See blue section

Look for this helpful symbol:

It's our way of letting you know that a product can be purchased from authorized HP dealers, as well as through our catalog. You'll find the "Dealer Bug" after descriptions of many of our products. And if every product on a page is carried by our dealers, the will appear at the top of that page. For the name and location of your closest HP dealer, call 800-367-4772—that's 800-FOR-HPPC.

Attention, engineering professionals

When you're in the market for electronic test accessories and basic measurement products, look to our *Test & Measurement Accessories* catalog. It offers selection guides, flow charts and product-defining photos to help you choose the right devices for your particular application, and is designed to answer typical questions about Hewlett-Packard products. And because this catalog is from HP DIRECT, every product in it can be shipped to you within 24 hours—usually the same day you order!

For your *Test & Measurement Accessories* catalog, just fill out one of the handy request cards near the center of this catalog.

NEW! NEW! NEW! NEW! NEW! NEW! NEW!

Cut clutter, promote productivity with our Mobile LaserJet Printer Cabinet

Here's a single piece of furniture to fill most every laser printing need! This roomy cabinet features a wide drawer for fonts and manuals, with customized slots to keep everything tidy. It has expansive shelves for printer paper, paper trays and toner cartridges. And a shelf slides out from either side for additional workspace. It's a highly functional, attractive stand for the entire HP LaserJet family of printers. In fact, everything you need for months of printing can be right where you need it most!

- *Handy **slide-out shelf** keeps paper and printing necessities within easy reach.*
- *Drawer has a **customized foam insert** for font cartridges and 3.5-in. soft fonts, and a **movable divider** to keep 5.25-in. soft fonts and manuals well-organized.*
- *A **perfect fit** for all LaserJet Printers—and* Design Plus *furniture too! Measures 28.35 in. (720 mm) H × 23.6 in. (600 mm) W × 28.0 in. (711 mm) D.*

- ***Two large shelves** let you stock up to three paper trays and several reams of paper on top, and at least two toner cartridges below—supplies for months!*
- ***Heavy-duty, self-locking** casters give this cabinet mobility when you need to share printing resources, and perfect stability while printing.*

92211B Mobile LaserJet Printer Cabinet ..... $585.00 ea.

Want to know more about ergonomic, HP-coordinated Design Plus Furniture? Turn to page 74.

NEW! NEW! NEW! NEW! NEW! NEW! NEW!

Get your LaserJet Series II Printer off to a great start with these supplies (from left to right): 92211B Mobile LaserJet Printer Cabinet, 92285J transparency film, 92285K self-adhesive LaserJet labels, 92295A EP-S toner cartridge, 92285P font organizer with 92286 Series font cartridges, 33443A/4A/5A memory expansion boards and 92259G dust cover. See chart below for more supplies.

LaserJet Series II Printer supplies and accessories

Product number	Description	Price
92295A	Toner (EP-S) cartridge. Prints 4000 pages per cartridge based on 5% coverage (8.5 × 11 in.- or 216 mm × 279 mm-page).	(1–3 cartridges) ..... $115.00 ea. (4–9) ..... 99.00 ea. (10+) ..... 94.00 ea.
92295B	8.5 × 11 in. (216 mm × 279 mm) standard paper tray. Holds 200 sheets.	(1–2 trays) ..... $65.00 ea. (3–9) ..... 55.00 ea. (10+) ..... 49.00 ea.
92295C	8.5 × 14 in. (216 mm × 356 mm) legal paper tray. Holds 200 sheets.	(1–2 trays) ..... $69.00 ea. (3–9) ..... 59.00 ea. (10+) ..... 52.00 ea.
92295D	Metric A4 (210 mm × 297 mm or 8.3 × 11.7 in.) paper tray. Holds 200 sheets.	(1–2 trays) ..... $65.00 ea. (3–9) ..... 55.00 ea. (10+) ..... 49.00 ea.
92295E	7.25 × 10.5 in. (184 mm × 267 mm) executive paper tray. Holds 200 sheets.	(1–2 trays) ..... $69.00 ea. (3–9) ..... 59.00 ea. (10+) ..... 52.00 ea.
33443A	1M-byte memory expansion board for LaserJet Series II Printer. See next page for more details.	$495.00 ea.
33444A	2M-byte memory expansion board for LaserJet Series II Printer. See next page for more details.	$995.00 ea.
33445A	4M-byte memory expansion board for LaserJet Series II Printer. See next page for more details.	$1995.00 ea.
92295R	Replacement top cover for 92295B/E paper trays.	$19.25 ea.
92295S	Replacement top cover for 92295C paper trays.	$19.25 ea.
92285P	Plug-in cartridge font organizer. Stores up to 4 fonts in sturdy acrylic box. Hinged lid keeps out dust.	(1 unit) ..... $42.95 ea. (2–9) ..... 38.95 ea. (10+) ..... 34.95 ea.
92259G	Custom-tailored dust cover for LaserJet Series II Printer. 100% cotton, can be folded for easy storage. Color: Gray.	$30.00 ea.
92211B	Mobile LaserJet Printer Cabinet. Self-contained headquarters for all your printing needs. Top surface supports printer. Drawer holds fonts and manuals. Cabinet holds paper, paper trays, toner cartridges. Leaf slides out to the left or right for additional surface space. Dimensions: 23.6 in. (600 mm) W × 28.3 in. (720 mm) H × 28 in. (711 mm) D. See opposite page for more details.	$585.00 ea.

NEW! NEW! NEW! NEW! NEW! NEW! NEW!

New LaserJet family soft fonts*

The soft fonts listed below work with the LaserJet Plus, 500 Plus, LaserJet Series II and LaserJet 2000 Printers.

33411/12EA Prestige Elite family. Includes the popular Prestige Elite faces plus Math, Legal, Linedraw and PC Line faces.

This is a 10-point example:

ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()+,-*

33412RA ITC Garamond®. The classic roman letterform from which all roman faces have evolved. Point sizes: 6, 7, 8, 10, 11, 12, 14, 18, 24 and 30. Type styles: Regular, bold and italic.

This is a 12-point example:

ABC abc 123 ~ ! @ # $ % ^ & * ( ) + | ' - =

33412SA Century SchoolBook®. Standard for primers and textbooks and ideal for technical documentation. Point sizes: 6, 7, 8, 9, 10, 11, 12, 14, 18, 24, 30. Type styles: Regular, bold and italic.

This is a 12-point example:

ABC abc 123 ~ ! @ # $ % ^ & * ( ) + | ' - =

33412TA Zapf Humanist 601™. (Bitstream's version of Optima®). Modern sans serif letterform that's legible in text and distinctive in display. Point sizes: 6, 7, 8, 9, 10, 11, 12, 14, 18, 24, 30. Type styles: Regular, bold and italic.

This is a 12-point example:

ABC abc 123 ~ ! @ # $ % ^ & * ( ) + | ' - =

33412UA Headline Typefaces 1. A collection of five faces each with four large sizes: 14, 18, 24, 30.

This is a 14-point example of Broadway:

ABC abc 123 ~ ! @ # $ % ^ & * ( )

This is a 14-point example of University Roman:

ABC abc 123 ~ ! @ # $ % ^ & * ( ) + | '

This is a 14-point example of Coronet Bold:

*ABC abc 123 ~ ! @ # $ % ^ & * ( ) + | ' = *

This is a 14-point example of Cooper Black:

ABC abc 123 ~ ! @ # $ % ^ & * ( ) +

This is a 14-point example of Bodoni Black:

**ABC abc 123 !@#$%^&*()-+ = _ **

*Not for use with standard LaserJet Printer 2686A.

Price ..... $200.00 ea.

See LaserJet family soft fonts chart on page 8 for more details and ordering information.

Additional memory for your LaserJet Series II Printer

Now you can purchase additional memory for your new LaserJet Series II Printer which comes with 512K bytes of memory. HP offers three memory board accessories: 1 M-byte, 2 M-byte, or 4 M-byte.

These expansion boards increase the printer memory to 1.5 M bytes, 2.5 M bytes or 4.5 M bytes respectively.

The memory boards themselves are not upgradable, so it is important to consider future needs when selecting additional memory.

1 M-byte Memory Expansion Board. This memory board provides for full page, 300 × 300 dpi and allows for more fonts and forms to be downloaded. Recommended for the single-user environment.

33443A 1 M-byte Memory Board ..... $495.00 ea.

2 M-byte Memory Expansion Board. In addition to providing for full page 300 × 300 dpi graphics, this memory board gives shared-printer users the flexibility needed to meet their individual downloading requirements. Recommended for a multi-user environment. A single user may also benefit if the intended applications require a large number of fonts or forms to be downloaded.

33444A 2 M-byte Memory Board ..... $995.00 ea.

4 M-byte Memory Expansion Board. This memory board provides for special memory-intensive applications as well as full-page, 300 × 300 dpi graphics and multiple font/form downloading.

33445A 4 M-byte Memory Board ..... $1995.00 ea.

"The best part of all is the quietness."

"Thank you for your follow-up call on my recent order. The LaserJet paper trays arrived promptly and in perfect condition. As for the printer itself, my only regret is that I didn't buy it as original equipment with my PC. It just sits there humming and clicking and pouring out sheets. Printing revised drafts is no longer a bottleneck, and the finished product looks better than any other kind of typing I have seen. It's a great product."

Charles E. Hepner
Kenyon & Kenyon Law Offices
New York, N.Y.

Here's protection for your LaserJet Series II Printer

Protect your LaserJet Series II printer (33440A) against spills, moisture and environmental contaminants with our 100% cotton dust cover. It's designed for a custom fit, and durable enough to enhance your office for years to come.

92259G LaserJet Series II Printer dust cover ..... $30.00 ea.

NEW! NEW! NEW! NEW! NEW! NEW! NEW!

HELPFUL IDEAS!

What kind of paper should you use with LaserJet Printers?

LaserJet Printers have been designed to work well with most types of paper, although some variables in paper composition may significantly affect print quality and paper handling. Paper manufactured for high quality photocopying yields good results for general purpose applications. For other applications where cotton bond is desirable (i.e., company letterhead), you should test the paper fully before you purchase it in order to ensure desirable performance.

If you are new to choosing paper for your LaserJet Printer, we recommend that you use the specifications below (also listed in your Operator's Reference Manual), when selecting paper.

Standard White Photocopy Paper Specifications	
Basic Weight	60 to 90 g/m² (16 to 21 pounds)
Thickness	0.086 to 0.107 mm (3.4 to 4.2 mils)
Moisture Content	4 to 6%
Cutting Dimensions (Accuracy of paper size)	±0.7 mm (.0276 inch)
Cutting Angle (Accuracy of paper edges)	90 degrees ±4 (86 to 94 degrees)
Paper Grain	Long Grain (parallel to length)

Again, we strongly recommend that all paper be thoroughly tested before it is purchased.

LaserJet 2000 Printer supplies and accessories

Product number	Description	Price
92282A	Toner. Box contains 2 one-half kilogram bags. Will print approx. 14,000 8.5×11-in. (216 mm×279 mm) pages.	(1–4 boxes) ..... $90.00 ea. (5–12) ..... 80.00 ea. (13–24) ..... 72.00 ea. (25+) ..... 67.50 ea.
92282B	8.5×11 in. (216 mm×279 mm) standard extra paper cassette tray. Holds 250 sheets, landscape orientation.	(1–2 trays) ..... $89.00 ea. (3–9) ..... 80.00 ea. (10+) ..... 70.00 ea.
92282C	8.5×14 in. (216 mm×356 mm) legal extra paper cassette tray. Holds 250 sheets, portrait orientation.	(1–2 trays) ..... $89.00 ea. (3–9) ..... 80.00 ea. (10+) ..... 70.00 ea.
92282D	11×17 in. (275 mm×432 mm) ledger paper cassette tray. Holds 250 sheets, portrait orientation.	(1–2 trays) ..... $89.00 ea. (3–9) ..... 80.00 ea. (10+) ..... 70.00 ea.
92282E	7.25×10.5 in. (184 mm×267 mm) executive paper cassette tray. Holds 250 sheets, portrait orientation.	(1–2 trays) ..... $89.00 ea. (3–9) ..... 80.00 ea. (10+) ..... 70.00 ea.
92282F	Metric A4 (210 mm×297 mm or 8.3×11.7 in.) extra paper cassette tray. Holds 250 sheets, landscape orientation.	(1–2 trays) ..... $89.00 ea. (3–9) ..... 80.00 ea. (10+) ..... 70.00 ea.
92282G	Metric A3 (297 mm×420 mm or 11.7×16.5 in.) extra paper cassette tray. Holds 250 sheets, portrait orientation.	(1–2 trays) ..... $89.00 ea. (3–9) ..... 80.00 ea. (10+) ..... 70.00 ea.
92282P	Package of four toner disposal boxes. Box life—40,000 printed pages each.	$26.00 pkg.
92285P	Plug-in cartridge font organizer. Stores up to 4 fonts in sturdy acrylic box. Hinged lid keeps out dust.	(1 unit) ..... $42.95 ea. (2–9) ..... 38.95 ea. (10+) ..... 34.95 ea.

NEW! NEW! NEW! NEW! NEW! NEW! NEW!

HP's silent, practical and powerful printers–the perfect partners for your PCs

HP's quiet ThinkJet Printers let you think, talk, and be productive at other tasks while you quickly print at the office or in your home. And now you can obtain the same results as well as near-letter quality output (NLQ) with the QuietJet and the QuietJet Plus Printers.

All five (including the new battery-powered HP 2225P) of our ThinkJet Printers and our new QuietJet and QuietJet Plus Printers are built around HP's low-decibel, non-impact ink-jet technology. The heart of this technology is our inexpensive, disposable ink print cartridge that combines innovation and user convenience. You just snap it in, or lift it out—no handling of ribbons, no contact with ink. Simple, clean, efficient!

HP QuietJet and QuietJet Plus Printers

The QuietJet and the QuietJet Plus Printers are engineered to give ultra-quiet performance and high-quality printing. The QuietJet is almost the same printer as the QuietJet Plus—it just costs less and takes up less space! The wide-carriage QuietJet Plus Printer is perfect for larger spreadsheets while the narrow-carriage QuietJet Printer accommodates standard size paper. With the QuietJet or QuietJet Plus Printer, you can:

- Get sharp characters when printing quick drafts at 192 cps and near-letter quality (NLQ) for important letters and reports at 48 cps.
- Print graphics in three densities for professional-looking charts and illustrations.
- Change print sizes using six print pitches, and print enhancements to highlight, clarify or get more information on a page.
- Choose NLQ, draft or compressed print with just one keystroke on a convenient key panel.
- Connect to HP, IBM or Apple personal computers. (Each QuietJet and QuietJet Plus Printer comes with both the Centronics and RS232 interfaces.)

The QuietJet Series printers offer excellent Z-fold paper handling with a fully adjustable tractor and a paper-advance knob. A friction-feed full platen allows for easier manual sheet-feeding.

Designed for versatility, each QuietJet Series printer has both the Centronics parallel and RS-232C serial interface—a feature normally found in higher-priced printers.

QuietJet Printer dimensions: 15.5 in. W × 4.65 in. H × 8.43 in. D (395 × 118 × 214 mm).

QuietJet Plus dimensions: 20.75 in. W × 4.76 in. H × 8.7 in. D (527 × 121 × 221 mm).

You can rely on the QuietJet, QuietJet Plus and ThinkJet Printers for fast, quiet and quality performance every time!

HP 2228A QuietJet Printer (9) .. $599.00 ea.
HP 2227A QuietJet Plus Printer (9) ..... 799.00 ea.

HP ThinkJet Printers

Quick, quiet, and small describe our best-priced ink-jet printer—the ThinkJet. Lightweight and compact, it allows you the convenience of personal printing whenever or wherever you need to print. With the ThinkJet Printer, you can:

- Print a standard letter in less than a minute at a print speed of 150 cps.
- Have graphics printed with the same speed and silence.
- Connect to HP, IBM or Apple personal computers.
- Highlight and vary your output using four print pitches, underlines and bold.
- Have the convenience of using Z-Fold paper.
- Have the freedom of taking your printer anywhere.

ThinkJet dimensions: 11.5 in. W × 3.5 in. H × 8.1 in. D (292 × 89 × 206 mm).

Warranty and post warranty services for HP printers are available from more than 100 HP sales offices in the U.S. Call (800) 835-4747 for more information.

Battery-powered and portable. Now with the new, battery-powered HP 2225P Centronics-type ThinkJet, all the benefits of a ThinkJet Printer are available to non-HP portable computer users. Owners of Toshiba, IBM Convertible, Zenith, Grid, Data General, and Kaypro portables can take the rugged HP 2225P ThinkJet on the road. (Note: The 92219Z cable is required for operation with the HP 2225P ThinkJet Printer).

See page 11 for a complete list of ThinkJet Printers.

HP 2225P ThinkJet Printer (includes battery pack and recharger) (9) ..... $495.00 ea.
92219Z Centronics cable, 3.3 ft. (1 m), shielded, 25-pin male and 15-pin male connectors (required for HP 2225P connection to cpu) (9) ..... $49.00 ea.

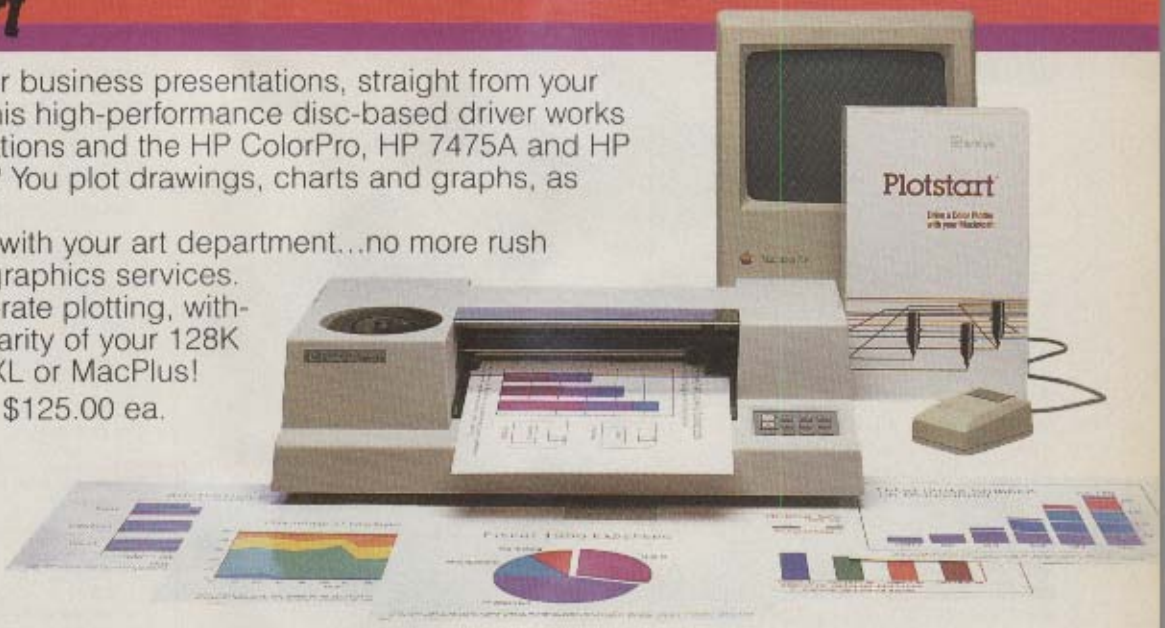
NEW! NEW! NEW! NEW! NEW! NEW! NEW!

Plot color presentations from your Macintosh with Plotstart

Start plotting multi-color business presentations, straight from your Apple® Macintosh®! This high-performance disc-based driver works with Macintosh applications and the HP ColorPro, HP 7475A and HP 7550A plotters. Result? You plot drawings, charts and graphs, as easily as you print!

No more bargaining with your art department...no more rush charges from outside graphics services. Now you can have top-rate plotting, without giving up the familiarity of your 128K Mac, 512K Mac, Mac XL or MacPlus!

35184B Plotstart ..... $125.00 ea.



Plotstart lets you:

- MacDraw® that presentation cover, then plot it out in colors that captivate.
- Lotus® Jazz® your monthly report, then plot it out in colors that clarify.
- Microsoft® Chart™ your new organization, then plot it out in colors that correspond.

Available on 3.5-in. disc. Standard ImageWriter I type cable (DB-9 to DB-25) included.* Support provided by Softstyle®

*In addition, the Macintosh Plus requires a DIN-8 to DB-9 adapter cable (Apple part no. 699-0372), and the HP 7550A plotter requires an RS-232C gender converter (DB-25) (HP part no. 92224F). The Macintosh XL requires a standard RS-232C printer cable instead of the one provided.

Eliminate that plotter noise!

Do you have sensitive ears? Our all-new Plotter Sound Enclosure reduces the sound of your HP 7470, 7475 or HP ColorPro plotter by as much as 90%, to as low as 53.4 decibels. Your plotter becomes as quiet as a murmur...less intrusive than the sound of computer keyboarding. It's a wonderful way to improve office productivity.

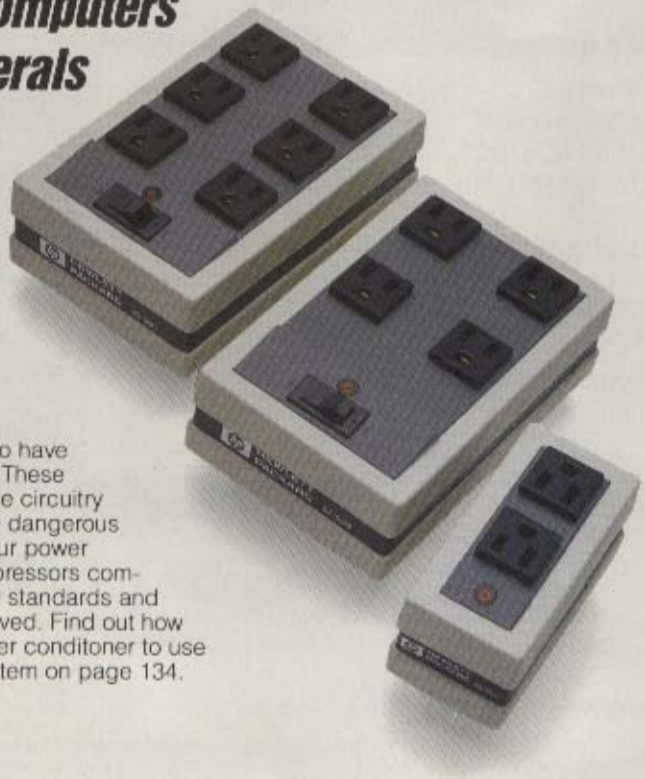
The most functionality you'll find in a sound enclosure An intelligent design negates the need for an annoying cooling fan. It's constructed of sound-swallowing particle board, with foam lining to absorb plotter vibrations. A foam plug can be removed to facilitate extra-long plotter paper, then re-inserted for further sound reduction. And the durable acrylic lid is attached by spring-loaded hinges for effortless opening and closing. Dimensions are 12 in. (305 mm) H × 25.8 in. (605 mm) × 18.9 in. (480 mm) D; stand measures 3.9 in. (10 cm) H.

Designed to complement your HP equipment This Plotter Sound Enclosure is designed to coordinate with HP LaserJet printers and printer sound enclosures, as well as our computers and Design Plus furniture. What's more, its design allows space for our 92177W/X Graphics Organizer underneath for additional convenience (see page 38).

Extra protection for your plotter This Plotter Sound Enclosure protects your plotter investment, too. It's a shield against dust, spills and environmental contaminants—just as it shields *you* from unwanted noise.

92166E Plotter sound enclosure $249.00

Surge Suppressors–Protection for personal computers and peripherals



Use HP's Surge Suppressors to protect your personal computer and peripherals against electrical surges/transients. HP Surge Suppressors also have EMI/RFI noise filtering. These units feature three-stage circuitry to detect and dissipate dangerous electrical surges on your power line. All HP Surge Suppressors comply with IEEE 587-1980 standards and are UL and CSA-approved. Find out how to determine what power conditoner to use with your computer system on page 134.

Surge Protection Specifications

Applicable line voltage: $120V_{RMS}$ nominal, 170 VP nominal (240_{RMS} nominal, 339 VP nominal for 220 volt models)
Temperature: −25 to +75°C operating; −50 to +100°C storage
Operating humidity: less than 95% noncondensing
Standby current: less than 1 milliamp
Failure mode (95%): open circuit

Characteristics	Stage 1	Stage 2	Stage 3
Component clamping response (seconds)	5×10^{-12} (5 psec)	5×10^{-9} (5 nsec)	1×10^{-6} (1 usec)
Power dissipation in 100 microseconds (watts)	4,500	500,000	1,000,000
Rated energy absorption (joules)	1.5	55	100
Clamping level (volts peak) 120 V	200 ± 5%	200 ± 10%	230 ± 15%
Dynamic impedance (Ω) 120 V	10	less than 1	10

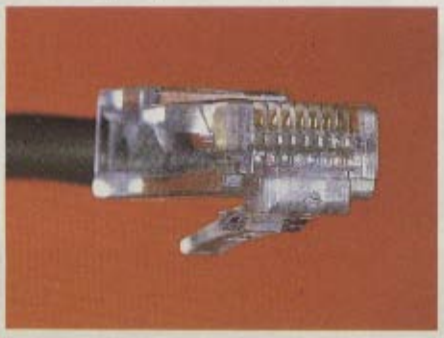
Protection mode: Transverse and Common (3-stage models)
RFI & EMI noise protection filtration
Noise attenuation range: −5 dB to −40 dB
Frequency: 100 kHz to 30 MHz

Surge Suppressors

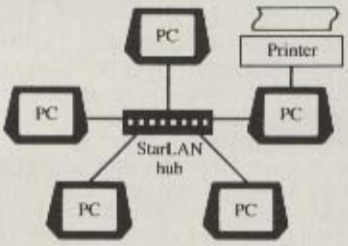
Product Number	Description	Number of 5-15R Receptacles	Dimensions Inches (mm)	(1 unit)	Price (2–4 units)	(5+ units)
92165A	Surge Suppressor	2	2W × 4.5D × 2H (51 × 114 × 51)	$69.00 ea.	$64.00 ea.	$59.00 ea.
92165B	Surge Suppressor	4	5W × 7D × 2H (127 × 179 × 51)	$89.00 ea.	$84.00 ea.	$79.00 ea.
92165C	Surge Suppressor	6	5W × 7D × 2H (127 × 179 × 51)	$99.00 ea.	$94.00 ea.	$89.00 ea.

HP StarLAN cable–low-cost and easy to install

HP now offers premeasured and connectored StarLAN cable to link your computer system to your StarLAN hub. Via a central StarLAN hub you can exchange data files, share data storage facilities, and pool your printers and plotters.



- HP StarLAN cable was designed to connect HP computer systems, IBM PCs and peripherals to your StarLAN hub.*
- HP StarLAN cable consists of four twisted pair cable with an 8-pin RJ 45 connector and installs as easily as telephone cable.
- HP StarLAN cable conforms to the Ethernet IEEE 802.3 1BASE5 standard.



Product no.	Length	Price
92268A	4 m (13.1 ft.)	(1–4) . . $16.00 ea. (5–8) . . 14.00 ea. (9+) . . 13.00 ea.
92268B	8 m (26.2 ft.)	(1–4) . . $19.00 ea. (5–8) . . 17.00 ea. (9+) . . 16.00 ea.

Product no.	Length	Price
92268C	16 m (52.5 ft.)	(1–4) . . $22.00 ea. (5–8) . . 20.00 ea. (9+) . . 19.00 ea.
92268D	32 m (105.0 ft.)	(1–4) . . $27.00 ea. (5–8) . . 25.00 ea. (9+) . . 24.00 ea.

***Not designed for Touchscreens (HP 150s).**

NEW! NEW! NEW! NEW! NEW! NEW! NEW!

The HP-28C—new dimensions in problem-solving

Here's the first calculator that can perform symbolic math as easily as straight calculations.

Key in any math expression. You can develop your own algebraic or calculus problems, right on the calculator—in fact, the HP-28C will tell you if your equations are valid. You can view function behavior on the HP-28C's display, or plot them onto an HP Infrared Printer.

Other features include a wide range of fully-programmable commands and functions, a user-definable unit conversion system, and softkeys and menus that simplify command entries. It's ideal for engineers, technicians and students alike. (NOTE: see page 101 for leather cases, available in three colors.)

HP-28C Scientific Professional .... $235.00 ea.

Protection for your Infrared Printer

Transport your HP Infrared Printer easily and elegantly with our custom-fitted cowhide case. It has a sturdy hand-carrying strap, a convenient flap closing and pigskin lining for additional durability. And it's styled to match the case of your HP-18C or HP-28C calculator perfectly.

92169G Black infrared printer case ..... $25.00 ea.
92169H Brown infrared printer case ..... $25.00 ea.
92169J Burgundy infrared printer case ..... $25.00 ea.

Solution handbooks:

00028-90001 Getting Started $12.50
00028-90021 Reference Manual, English 18.00
00028-90041 Algebra and College Math 9.95
00028-90042 Calculus $9.95
00028-90043 Probability and Statistics 9.95
00028-90044 Vectors and Matrices 9.95

When you need help with your HP Business Consultant

Chris Coffin and Ted Wadman Grapevine Publications 1986.

Sized to keep in your calculator case or tuck in a pocket, this compact 3 × 5½-inch (76.2 × 139.7 mm) guide is always handy when you need help with your HP Business Consultant (HP 18C). Filled with lots of examples (complete with keystroke procedures), it's designed as a fast, friendly brush-up and reference. Beginning with the basics, you are led through the steps to solve percentage and markup problems, create your own formulas, and use math functions. The financial calculation section covers mortgage topics such as balloon payments, points, amortization schedules, discounted loans, wraparound, variable rate and blended rate mortgages.

92235W ..... $7.95 ea.

HELPFUL IDEAS!

Index of new products!

Find more new products for your HP computers and peripherals on pages listed below.

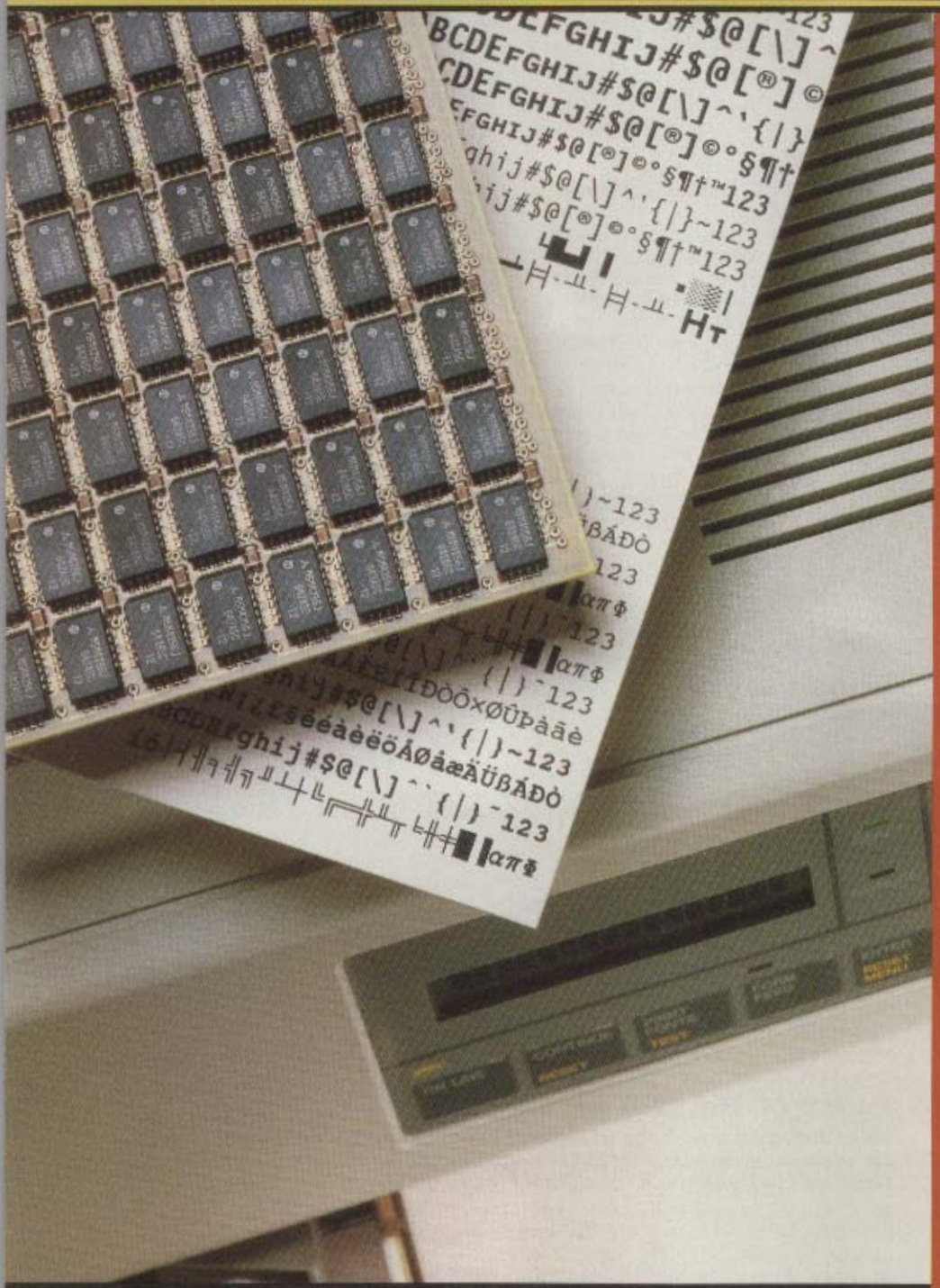
Cartridge font for LaserJet Printers 7
Soft fonts for LaserJet PLUS/500 PLUS/Series II/2000 Printers 8
Accessories for new DraftMaster Plotter 39
Power line conditioners 135

Index of Helpful Ideas!

We've included a number of Helpful Ideas throughout the catalog. Look for these helpful ideas on pages listed below and find out how you can improve your productivity with HP supplies and accessories.

Hard vs. soft fonts—Which to choose for your LaserJet Printers 4
Choosing LaserJet fonts—Understanding printing jargon 7
Safe and easy laser printer drum disposal 9
How to reduce static buildup on drafting film 31
How to produce shades of color with plotter pens 33
How to order cut-to-length cables 45
How to extend RS232C cables 49
Compatibility guide for magnetic media accessories 62
How to choose the right supplies & accessories for your HP tape drives 66
Static facts 98
Choosing the right battery for your HP system 108
How to upgrade or replace your HP software media 113

PRINTERS



The HP LaserJet...the world's best selling laser printer is now better than ever with the introduction of the LaserJet Series II. It's lower in price yet has added features—like expandable memory for desktop publishing applications. You'll find memory boards on page IV and our full line of LaserJet Printer supplies in this section.

Mobile LaserJet Cabinet II

LaserJet supplies & accessories ..... III, V, 3

LaserJet fonts ..... IV, 5

Laser page printer supplies/fonts 9

Laser page printer vacuum 10

ThinkJet/QuietJet Series Printers 11

ThinkJet/QuietJet Series supplies 12

HP 2603 Daisywheel Printer & supplies 16

Impact printer supplies & accessories 17

Thermal printer paper 23

Peripheral-sharing devices 24

Get the most out of your LaserJet Printer with these supplies (from left to right): 92285F forward collator, 92259C dust cover, 92285A toner cartridge, 92285B/C paper trays and 92287C paper tray (for LaserJet PLUS only), 33412AC soft fonts, 92285K self-adhesive labels, 92285J LaserJet overhead transparency film, 92286 Series cartridge fonts, and 92285P font organizer. See chart below for more supplies.

LaserJet, LaserJet PLUS, 500 PLUS Printer supplies and accessories

Order product no.	Description	Price
92285A	Toner (EP) cartridge, black. 3000 pages per cartridge (based on ¾-in. or 19 mm margins, double-spaced, text only).	(1–3 cartridges) $115.00 ea. (4–9) 99.00 ea. (10+) 94.00 ea.
92285G	Toner (EP) cartridge, brown. 2000 pages per cartridge (based on ¾-in. or 19 mm margins, double-spaced, text only).	(1–3 cartridges) $139.00 ea. (4–9) 132.00 ea. (10+) 125.00 ea.
92285B	8.5 × 11 in. (216 × 279 mm) extra paper tray. Holds 100 sheets. For LaserJet and LaserJet PLUS only.	(1–2 trays) $49.00 ea. (3–9) 45.00 ea. (10+) 40.00 ea.
92285C	8.5 × 14 in. (216 × 356 mm) extra paper tray. Holds 100 sheets. For LaserJet and LaserJet PLUS only.	(1–2 trays) $49.00 ea. (3–9) 45.00 ea. (10+) 40.00 ea.
92285D	Metric A4 size extra paper tray. Holds 100 sheets. 210 mm × 297 mm (8.27 × 11.69 in.) For LaserJet and LaserJet PLUS only.	(1–2 trays) $49.00 ea. (3–9) 45.00 ea. (10+) 40.00 ea.
92285E	Metric B5 size extra paper tray. Holds 100 sheets. 7.2 × 10 in. (182 × 254 mm) For LaserJet and LaserJet PLUS only.	(1–2 trays) $49.00 ea. (3–9) 45.00 ea. (10+) 40.00 ea.
92285F	Forward collator for LaserJet and LaserJet PLUS printers. Lightweight plastic; holds 200 pages.	$49.95 ea.
92285J	Overhead transparencies. Box of 50. Size: 8.5 × 11 in. (216 × 279 mm). **Not recommended for automatic feeding.**	(1 box) $32.00 ea. (2–9) 27.20 ea. (10+) 24.00 ea.
92285K	Self-adhesive labels. Label size: 1 × 2¾ in. (25.4 × 69.9 mm), 33 labels per sheet, 100 sheets* per box. **Not recommended for automatic feeding.**	(1 box) $44.00 ea. (2–19) 37.50 ea. (20+) 31.00 ea.
92285L	Self-adhesive labels. Label size: 1⅜ × 2⅞ in. (35.1 × 71.9 mm), 24 labels per sheet, 100 sheets* per box. **Not recommended for automatic feeding.**	(1 box) $44.00 ea. (2–19) 37.50 ea. (20+) 31.00 ea.
92285M	Self-adhesive labels. Label size: 2¾ × 4¼ in. (69.9 × 108 mm), 8 labels per sheet, 100 sheets* per box. **Not recommended for automatic feeding.**	(1 box) $44.00 ea. (2–19) 37.50 ea. (20+) 31.00 ea.
92285P	Font organizer. Stores up to 4 font cartridges in sturdy acrylic box. Hinged lid keeps out dust. High density foam separators protect cartridges.	(1 unit) $42.95 ea. (2–9) 38.95 ea. (10+) 34.95 ea.
92285Q	Replacement output tray–holds letter size (8.5 × 11 in. or 216 × 279 mm) paper. For LaserJet and LaserJet PLUS only.	$5.75 ea.
92285R	Replacement auxiliary tray–extension piece holds legal size (8.5 × 14 in. or 216 × 356 mm) paper. Attach to output tray above. For LaserJet and LaserJet PLUS only.	$5.50 ea.
92285S	Replacement LaserJet manual input tray. For LaserJet and LaserJet PLUS only.	$5.25 ea.
92285T	Service Kit for LaserJet, LaserJet PLUS, 500 PLUS. (contains 2 separator belts, and 2 felt cleaner pads).	$19.50 ea.
92287B	Letter size (8.5 × 11 in. or 216 × 279 mm) paper tray for LaserJet 500 PLUS Printer only.	(1–2 trays) $72.00 ea. (3–9) 61.50 ea. (10+) 54.00 ea.

*Sheet size is 8½ × 11 in. (216 × 279 mm).

Order from your local HP dealer
Call 800-367-4772 for nearest location

LaserJet, LaserJet PLUS, 500 PLUS Printer supplies and accessories (continued)

Order product no.	Description	Price
92287C	Legal size (8.5×14 in. or 216×356 mm) paper tray for LaserJet 500 PLUS Printer only.	(1–2 trays) ..... $72.00 ea. (3–9) ..... 61.50 ea. (10+) ..... 54.00 ea.
92287D	Metric A4 size (210×297 mm or 8.3×11.7 in.) paper tray for LaserJet 500 PLUS Printer only.	(1–2 trays) ..... $72.00 ea. (3–9) ..... 61.50 ea. (10+) ..... 54.00 ea.
92287E	Metric B5 size (182×257 mm or 7.2×10 in.) paper tray for LaserJet 500 PLUS Printer only.	(1–2 trays) ..... $72.00 ea. (3–9) ..... 61.50 ea. (10+) ..... 54.00 ea.
92259C	Dust cover for LaserJet, LaserJet PLUS and 500 PLUS Printers. Made of 100% cotton. Color: Gray.	$30.00 ea.
92211B	new! Mobile LaserJet Printer Cabinet Self-contained headquarters for all your printing needs. **See page II of New Product section.**	$585.00 ea.
92214P	Design Plus Universal Support Stand. See page 78 for more details.	(1–2 units) ..... $275.00 ea. (3+) ..... 245.00 ea.

Run your favorite PC software on HP LaserJet Printers

LaserControl lets your LaserJet/LaserJet PLUS/500 PLUS/LaserJet Series II/LaserJet 2000 Printer quickly and easily...

- Emulate the Epson MX-80 (with Graftrax Plus), Diablo 630, NEC 5510/7710, NEC 3550, IBM Graphics Printer and Qume Sprint V.
- Work with HP Vectra PC and practically any IBM PC/XT/AT software program.
- Be fully controlled without complex escape codes.
- Print boldface, italics, underlines, subscripts, superscripts or any combination with your word processing program.
- Output graphics at maximum resolution—300 dpi anywhere on the page, and scaled at full, half or quarter size.
- Right justify proportional font text from any word processing program.
- Download soft fonts automatically with new 2.2 version.

You can use all HP font cartridges and soft fonts with LaserControl.

Technical support is provided by Insight Development of Moraga, Calif.

35190J LaserControl ..... $150.00 ea.

Gain easier control of your HP LaserJet Printer with LaserControl, PCL Pak or Laserstart!

Configure your printer with menu-driven interface

Configure your LaserJet/LaserJet PLUS/500 PLUS/LaserJet Series II/LaserJet 2000 Printer (select character sets, page length, lines per page, etc.) without entering escape sequences or writing a computer program. The PCLPak software utility provides a menu-driven interface to your printer. Available for the HP Touchscreen (150) PCs, the HP Vectra PC and the IBM PC.

33406A PCLPak for the Touchscreen PC, 3.5-inch disc ..... $79.00 ea.

33406B PCLPak for the Vectra PC, IBM PC, 5.25-inch disc ..... $79.00 ea.

LaserJet/Macintosh compatibility

Apple Macintosh users can take advantage of the high speed, letter quality printing and multiple fonts of the LaserJet/LaserJet PLUS/500 PLUS/LaserJet Series II/LaserJet 2000 Printers. Laserstart modifies standard Macintosh applications to run on any of the HP LaserJet Printers. 92219M cable required.

35178M Laserstart (3.5-inch disc, single-sided) ..... $69.95 ea.

92219M Cable ..... $45.00 ea.

35179M Package with Laserstart and 92219M cable ..... Save 17% ..... $95.00 ea.

HELPFUL IDEA!

Hard vs. soft fonts...which to choose?

The LaserJet PLUS, LaserJet 500 PLUS, LaserJet Series II and LaserJet 2000 Printers can use both soft (downloadable) and hard (cartridge) fonts. In determining which type of font to purchase, consider the following:

Hard fonts—

- No downloading time. Because the hard font is totally contained within the cartridge, you don't have to wait while the font is downloading to the printer's memory.
- No computer or printer memory is required. The hard font has all the memory needed to store the font data.
- Easy to see what other hard fonts are available. Every cartridge label shows all HP hard fonts.

Soft fonts—

- More versatility in the combinations of fonts you can use. Simply mix and match soft fonts as you wish.
- With no hardware involved, soft fonts generally cost less.

For your information: Hard and soft fonts CAN be used together.

See our new Mobile LaserJet Printer Cabinet on page II of the New Product section.

LaserJet cartridge fonts

Courier I
92286A
~~$225.00~~
$150.00 ea.

Save $75!

Contains Courier and Line Printer fonts.
Courier type styles: bold-upright, light-italics. Point size: 12. Pitch: 10. Symbol set: Roman8. Orientation: portrait (P).
Line Printer type style: Light-upright. Point size: 8.5. Pitch: 16.66. Symbol set: Roman8. Orientation: landscape (L).
Type styles shown in order listed above.

ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()+,-*
ABC abc 123 !"#$%&'()*+,-

TMS Proportional 1
92286B
$250.00 ea.

Contains Helv, Tms Rmn, and Line Printer fonts.
Helv type style: bold-upright. Point size: 14.4. Pitch: proportional spaced. Symbol set: USASCII. Orientation: portrait (P).
Tms Rmn type styles: medium-upright, bold-upright, medium-italics. Point size: 10. Pitch: proportional spaced. Symbol set: USASCII. Orientation: portrait (P).
Tms Rmn type style: light-upright. Point size: 8. Pitch: proportional spaced. Symbol set: USASCII. Orientation: portrait (P).
Line Printer type style: Light-upright. Point size: 8.5. Pitch: 16.66. Symbol set: Roman8. Orientation: landscape (L).
Type styles shown in order listed above.

ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()+,-*
ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()*+,-

International 1
92286C
~~$225.00~~
$150.00 ea.

Save $75!

Contains International Courier and Line Printer fonts.
International Courier type styles: medium-upright, bold-upright, medium-italics. Point size: 12. Pitch: 10. Symbol sets: USASCII, Roman8, Roman Ext., French, German, United Kingdom, Danish/Norwegian, Swedish/Finnish, Spanish, Italian. Orientation: portrait (P).
Line Printer type style: medium-upright. Point size: 8.5, 12 (not shown). Pitch: 16.66, 10 (not shown). Symbol sets: same as International Courier. Orientation: portrait and landscape (P&L).
Type styles shown in order listed above.

ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()+,-*
ABC abc 123 !"#$%&'()*+,-

Prestige Elite 92286D
~~$225.00~~
$150.00 ea.

Save $75!

Styles: medium-upright, bold-upright, medium-italics. Point size: 10. Pitch: 12. Symbol sets: Roman8, USASCII, Roman Ext. Orientation: portrait (P).
Type styles shown in order listed above.

ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()+,-*

Letter Gothic
92286E
~~$225.00~~
$150.00 ea.

Save $75!

Styles: medium-upright, bold-upright, medium-italics. Point size: 12. Pitch: 12. Symbol sets: Roman8, USASCII, Roman Ext. Orientation: portrait (P).
Type styles shown in order listed above.

ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()+,-*

TMS Proportional 2
92286F
~~$330.00~~
$250.00 ea.

Save $80!

Enhanced version of TMS proportional 1 containing Helv 2, Tms Rmn 2, and Line Printer fonts.
Helv 2 type style: bold-upright. Point size: 14.4. Pitch: proportional spaced. Symbol sets: Roman8, USASCII, Roman Ext. Orientation: portrait (P).
Tms Rmn 2 type styles: medium-upright, bold-upright, medium-italics. Point size: 10. Pitch: proportional spaced. Symbol sets: Roman8, USASCII, Roman-Ext. Orientation: portrait (P).
Tms Rmn 2 type style: medium-upright. Point size: 8. Pitch: proportional spaced. Symbol sets: Roman8, USASCII, Roman Ext. Orientation: portrait (P).
Line Printer type style: medium-upright. Point size: 8.5. Pitch: 16.66. Symbol sets: Roman8, USASCII, Roman Ext. Orientation: portrait (P).
Type styles shown in order listed above.

ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()+,-*
ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()*+,-

Legal Elite
92286G
~~$330.00~~
$150.00 ea.

Save $180!

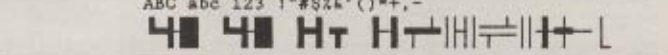
Contains Prestige Elite, Prestige Legal, and Line Draw fonts.
Prestige Elite and Legal type styles: medium-upright, bold-upright, medium-italics. Point size: 10. Pitch: 12. Symbol sets: USASCII and Legal (1U) respectively. Orientation: portrait (P).
Prestige Elite and Legal type style: medium-upright. Point size: 7. Pitch: 16.66. Symbol sets: USASCII and Legal (1U) respectively. Orientation: portrait and landscape (P&L).
Line Draw type style: medium-upright. Point size: 12. Pitch: 12. Symbol set: Line Draw 7. Orientation: portrait (P).
Type styles shown in order listed above.

ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()+,-*
ABC abc 123 !"#$%&'()*+,-

Legal Courier
92286H
~~$330.00~~
$150.00 ea.

Save $180!

Contains Courier, Courier Legal, Prestige Elite, Prestige Legal, and Line Draw fonts. Courier and Courier Legal type styles: medium-upright, bold-upright, medium italics. Point size: 12. Pitch: 10. Symbol sets: USASCII and Legal (1U) respectively. Orientation: portrait (P).
Prestige Elite and Prestige Legal type style: medium-upright. Point size: 7. Pitch: 16.66. Symbol sets: USASCII and Legal (1U) respectively. Orientation: portrait and landscape (P&L).
Line Draw type style: medium-upright. Point size: 12. Pitch: 10. Symbol set: Line Draw 7. Orientation: portrait (P).
Type styles shown in order listed above.

ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()+,-*
ABC abc 123 !"#$%&'()*+,-


Proportional space font users: Because spacing varies with each character, copy with columns of data may not align properly.

Order from your local HP dealer
Call 800-367-4772 for nearest location

LaserJet cartridge fonts (continued)

Math Elite
92286J
~~$400.00~~
$250.00 ea.

Save $150!

Contains Prestige Elite, Prestige Math, and Prestige Pi fonts.

Prestige Elite type styles: medium-upright, bold-upright, medium-italics. Point size: 10. Pitch: 12. Symbol sets: Roman8, USASCII, Roman ext. Orientation: portrait (P).

Prestige Elite type style: medium-upright. Point size: 7. Pitch: 16.66. Symbol sets: Roman8, USASCII, Roman Ext. Orientation: portrait (P).

Prestige Math and Pi type style: medium-upright. Point size: 10. Pitch: 12. Symbol sets: Math7, Math8, Math8a, Math8b, and Pi. Pi (a) respectively. Orientation: portrait (P). Sample not shown.

Prestige Math type style: medium-upright. Point size: 7. Pitch: 16.66. Symbol sets: Math8, Math8a, Math8b. Orientation: portrait (P). Sample not shown.

Type styles shown in order listed above.

ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()+,-*
ABC abc 123 !"#$%&'()*+,-

Math TMS
92286K
~~$400.00~~
$250.00 ea.

Save $150!

Tms Rmn type style: medium, bold-upright, medium italic. Point size: 10, 8. Pitch: Proportional space. Symbol sets: USASCII, Roman8, Roman Ext. Math8, Math8a, Math8b, Math7. Pifont, Pifont(a). Orientation: portrait (P).

Type styles shown in order listed above.

ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()+,-*
ABC abc 123 !"#$%&'()*+,-
ABΓ αβγ 123 √∞+∝'()×+,-
ABΓ αβγ 123 √∞÷∝'()×+,-
Δ ™®©

Courier P&L
92286L
~~$330.00~~
$250.00 ea.

Save $80!

Contains Courier and Line Printer fonts.

Courier type styles: bold-upright, medium-italics. Point size: 12. Pitch: 10. Symbol set: Roman8. Orientation: portrait and landscape (P&L).

Line Printer type style: medium-upright. Point size: 8.5. Pitch: 16.66. Symbol sets: Roman8, Orientation: portrait and landscape (P&L).

Type styles shown in order listed above.

ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()+,-*
ABC abc 123 !"#$%&'()*+,-

Prestige Elite P&L
92286M
~~$330.00~~
$250.00 ea.

Save $80!

Styles: medium-upright, bold-upright, medium-italics. Point size: 10. Pitch: 12. Symbol set: Roman8. Orientation: portrait and landscape (P&L).

Type styles shown in order listed above.

ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()+,-*

Letter Gothic P&L†
92286N
~~$330.00~~
$250.00 ea.

Save $80!

Styles: medium-upright, bold-upright, medium-italics. Point size: 12. Pitch: 12. Symbol sets: Roman8. Orientation: portrait and landscape (P&L).

Type styles shown in order listed above.

ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()+,-*

Tms Rmn P&L†
92286P
~~$330.00~~
$250.00 ea.

Save $80!

Styles: medium-upright, bold-upright, medium-italics. Point size: 10. Pitch: proportional spaced. Symbol set: Roman8. Orientation: portrait and landscape (P&L).

Type styles shown in order listed above.

ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()+,-*

Memo 1†
92286Q
~~$330.00~~
$250.00 ea.

Save $80!

Contains Courier and Letter Gothic fonts.

Courier type styles: bold-upright, medium-italics. Point size: 12. Pitch: 10. Symbol set: Roman8. Orientation: portrait and landscape (P&L).

Letter Gothic type styles: medium-upright, bold-upright. Point size: 12. Pitch: 12. Symbol set: Roman8. Orientation: portrait (P).

Type styles shown in order listed above.

ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()+,-*
ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()*+,-

Presentations
92286R
$330.00 ea.

Contains Presentation and Letter Gothic fonts.

Presentation type style: bold-upright. Point size: 18, 16, 14. Pitch: 6.5, 8.1, 10. Symbol sets: USASCII, Legal. Orientation: portrait and landscape (P&L).

Letter Gothic type style: medium-upright. Point size: 14. Pitch: 10. Symbol sets: USASCII, Legal. Orientation: portrait and landscape (P&L).

Line Draw type style: medium and bold upright. Point size: 14. Pitch: 10. Symbol set: Line Draw, PCline. Orientation: portrait and landscape (P&L).

Type styles shown in order listed above.

ABC ABC 123 !"#$%&
ABC ABC 123 !"#$%&'()*+
ABC ABC 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()*+,-

Tax 1
92286T
~~$330.00~~
$250.00 ea.

Save $80!

Contains Helv and Line Draw* fonts.

Helv type style: bold-upright. Point sizes: 12, 10, 8, 14. Pitch: proportional spaced. Symbol set: USASCII. Orientation: portrait (P).

Helv type style: medium-upright. Point sizes: 8, 6. Pitch: proportional spaced. Symbol set: USASCII. Orientation: portrait (P).

Line Draw type style: medium-upright. Point size: 12. Pitch: 10. Symbol set: Line Draw. Orientation: portrait (P).

Type styles shown in order listed above.

ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()*+,-

*Not standard HP line draw set

†Required for HPWORD

Proportional space font users: Because spacing varies with each character, copy with columns of data may not align properly.

LaserJet cartridge fonts (continued)

Forms Portrait/ Landscape
92286U/V
~~$330.00~~
$250.00 ea.

Save $80!

Contains Helv 2, Letter Gothic, and Line Draw fonts.

Helv 2 type style: bold-upright. Point sizes: 10, 12, 14. Pitch: proportional spaced. Symbol sets: Roman8, Roman Ext. Orientation: portrait (P)(92286U); landscape (L)(92286V).

Helv 2 type style: medium-upright. Point sizes: 6, 8. Pitch: proportional spaced. Symbol sets: Roman8, Roman Ext. Orientation: portrait (P)(92286U); landscape (L)(92286V).

Letter Gothic type style: medium-upright. Point size: 9.5. Pitch: 16.66. Symbol sets: Roman8, Roman Ext. Orientation: portrait (P)(92286U); landscape (L)(92286V).

Line Draw type style: medium-upright. Point size: 12. Pitch: 10. Symbol set: Line Draw 7. Orientation: portrait (P)(92286U); landscape (L)(92286V).

Type styles shown in order listed above.

ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()*+,-

EAN/UPC
92286X
~~$400.00~~
$250.00 ea.

Save $150!

Contains Letter Gothic, OCR B, EAN/UPC, and Linedraw7 fonts.

Letter Gothic type style: medium-upright. Point size: 14, 9.5. Pitch: 10, 16.66. Symbol sets: Roman8, Roman Ext, USASCII. Orientation: portrait (P).

OCR B type style: medium-upright. Point size: 12. Pitch: 10. Symbol sets: OCR B, OCR B Ext. Orientation: portrait (P).

EAN/UPC type style: medium, bold-upright. Point size: 12. Pitch: (10 mil), (13 mil). Spacing: proportional. Symbol set: EAN/UPC. Orientation: portrait (P).

Line Draw type style: medium-upright. Point size: 12. Pitch: 10. Symbol set: Linedraw7. Orientation: portrait (P).

Type styles shown in order listed above.

ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()*+,-
Ñ¤£¥§IJÅØÆåøæÄÅÜßij´`^"~.

Proportional space font users: Because spacing varies with each character, copy with columns of data may not align properly.

PC Courier1
92286Y
~~$330.00~~
$250.00 ea.

Save $80!

Contains Courier and Line Printer fonts.

Courier type styles: medium-upright, light-italics, bold-upright. Point size: 12. Pitch: 10. Symbol set: Roman8. Orientation: portrait (P).

Line Printer type style: light-upright. Point size: 8.5. Pitch: 16.66. Symbol set: Roman8. Orientation: portrait and landscape (P&L).

Type styles shown in order listed above.

ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()+,-*
ABC abc 123 !"#$%&'()*+,-
ABC abc 123 !"#$%&'()*+,-

Microsoft® 1
92286Z
$330.00 ea.

new!

Contains Tms Rmn, Helv and Lineprinter fonts.

Tms Rmn and Helv type styles: medium-upright: Point sizes 8, 10, 12. Bold-upright: 10, 12, 14. Medium Italics: 10, 12. Pitch: proportional space. Symbol sets: USASCII, ECMA 7-bit.

Lineprinter type style: medium-upright. Point size: 8.5. Pitch: 16.66. Symbol sets: USASCII and ECMA 7-bit.

Type styles shown in order listed above.

ABC abc 123 !@#$%^&*()_+|~`-=\{}[]
ABC abc 123 !@#$%^&()_+|~`-=\{}[]*
ABC abc123 !@#$%^&*()_+|~`-=\{}[]
ABCabc123!@#$%^&*()±|-=
ABC abc123 !@#$%^&*()_+|~`-=\{}[]

Note: The LaserJet Printer is restricted to printing eight different fonts on a page. The LaserJet PLUS can accommodate 16 to a page.

HELPFUL IDEAS!

Choosing your LaserJet fonts
To help you make the right choice, use this short glossary.

Font A collection of individual characters with common characteristics (like type style and size). These groupings usually contain all the normal alphabetic characters as well as punctuation marks, special symbols and figures.

Point Size Identifies height of characters in each font. There are approximately 72 points per inch.

Pitch Indicates number of characters printed per horizontal inch. A setting of 12 will print 12 characters per inch. Pitch is not specified with proportional (prop) fonts since spacing is based on the width of each character.

W I
Fixed Pitch
(Same spacing for all characters)

W I
Proportional Pitch
(Spacing varies with each character)

Orientation Refers to the direction of the print on the page. Some fonts print in portrait (P) orientation with text printed across the width of the page; other fonts print in landscape (L) orientation with text printed along the length of the page. Many cartridges print in both portrait and landscape (P&L) orientations.

Portrait **Landscape**

It's easy to order: 800-538-8787

It's easy to select soft fonts for your LaserJet Printer

(Actual point sizes)

6 point	7 point	8 point	9 point	10 point	11 point	14 point	18 point	24 point	30 point
N	N	N	N	N	N	N	N	N	N

LaserJet PLUS/LaserJet 500 PLUS/LaserJet Series II/LaserJet 2000 Printer soft fonts*

Refer to the compatibility guide below in choosing the soft font you need for your LaserJet PLUS, LaserJet 500 PLUS, LaserJet Series II or LaserJet 2000 Printer. First, select a base set, family or base set/supplemental set combination.** Second, identify your disc drive format. Third, choose between the standard USASCII or international ROMAN 8 symbol set***. Then determine the appropriate product number. For typestyle samples, see page IV and cartridge font section on previous three pages.

Set Point Size	Type Face	Disc Drive Format		Symbol Sets		Product Number	Price
		HP 3.5"	IBM 5.25"	USASCII	Roman8		
Base Set 6, 8, 10, 12, 14 Med., Bold, Italic. 18, 24, 30 Bold only.	TmsRmn/Helv	•		•		33411AC	$200.00 ea.
		•			•	33411AD	$200.00 ea.
			•	•		33412AC	$200.00 ea.
			•		•	33412AD	$200.00 ea.
Supplemental Set 7, 9, 11 Med., Bold, Italic. 18, 24, 30 Med. and Italic.	TmsRmn/Helv	•		•		33411AE	$200.00 ea.
		•			•	33411AF	$200.00 ea.
			•	•		33412AE	$200.00 ea.
			•		•	33412AF	$200.00 ea.
Base Set 9.5, 12, 14 Med. Bold, Italic.	Letter Gothic	•		•	•[1]	33411DA	$200.00 ea.
			•	•	•[1]	33412DA	$200.00 ea.
9.5, 12, 14, 16, 18 Med.	Line Printer	[1]Presentations is USASCII and Legal symbol sets only. Line Printer is PC line and Line draw symbol sets only.					
14, 16, 18, 24, 30 Bold	Presentations						
new! Family 7, 10 Med., Bold, Italic.	Prestige Elite	•		•	•[2]	33411EA	$200.00 ea.
			•	•	•[2]	33412EA	$200.00 ea.
12 Med.	Line Printer	[2]Line Printer is PC line and Line draw symbol sets only.					
new! Family 6, 7, 8, 9, 10, 11, 12, 14, 18, 24, 30 Med., Bold, Italic.	ITC Garamond®		•	•		33412RA	$200.00 ea.
new! Family 6, 7, 8, 9, 10, 11, 12, 14, 18, 24, 30 Med., Bold, Italic.	Century School Book®		•	•		33412SA	$200.00 ea.
new! Family 6, 7, 8, 9, 10, 11, 12, 14, 18, 24, 30 Med., Bold, Italic.	Zapf Humanist 601™		•	•		33412TA	$200.00 ea.
new! Family 14, 18, 24, 30 Bold.	Headline Typefaces 1		•	•		33412UA	$200.00 ea.
		Contains five different faces—Broadway®, Cornet Bold, Cooper Black®, University Roman, Bauer Bodoni Black Condensed®.					

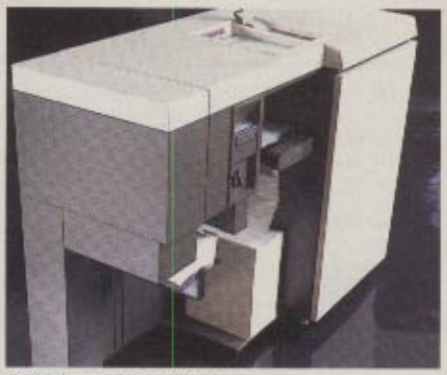
*Not for use with standard LaserJet Printer (2686A).

**The supplemental sets are not compatible with base sets purchased before August 1, 1986. Upgrade instructions are provided when you purchase a new supplemental set.

***Select a USASCII symbol set unless you particularly need the extended symbol set of European accent character included in ROMAN 8. USASCII uses less space on hard disc and in printer memory and takes less time to download to the LaserJet.

2688A Desktop Laser Page Printer

2686 LaserJet Printers. See pages 3–7



2680 Laser Page Printer

Laser page printer supplies

Printer	Order supply no.	Description	Estimated no. printed pages (8.5 × 11 in.)	Price
2680A/2685A/2689A Laser Printer	**92180A**	Toner. 12-one kilogram bags per box. **For HP 2680 and 2689A.**	300,000 to 400,000 pages per box	(1–2 boxes) . . . . . $450.00 ea. (3–10) . . . . . 425.00 ea. (11–19) . . . . . 410.00 ea. (20–39) . . . . . 400.00 ea. (40+) . . . . . 390.00 ea.
	92180D	Drum kit. Includes new cleaner blade.	300,000 per drum	(1–4 drums) . . . . . $230.00 ea. (5–9) . . . . . 218.00 ea. (10+) . . . . . 208.00 ea.
	92181A	Disposal containers. Box of 6 for spent toner collection.	360,000 per box	(1–2 boxes) . . . . . $83.00 ea. (3–5) . . . . . 75.00 ea. (6+) . . . . . 71.00 ea.
	92182A	Carrier. Box of 24 bottles. (Product sold by weight, not volume.)	1,200,000 per box	(1–3 boxes) . . . . . $74.00 ea. (4–9) . . . . . 70.00 ea. (10+) . . . . . 68.00 ea.
	92182D	Developer. Box of 6 bottles. 1 bottle per drum replacement.	1,800,000 per box	(1–2 boxes) . . . . . $215.00 ea. (3–9) . . . . . 200.00 ea. (10–) . . . . . 195.00 ea.
	92183A	Splicing tape. Box of 6 rolls.	3,240,000 per box	$72.00 ea.
	92184A	18 lb. (69-gm/sq meter) continuous fanfold paper. 12 × 8.5 in. (305 × 216 mm), 3600 sheets per box, 45 boxes per pallet. **Sold only in pallet quantities.** See page 85 for laser printout binders.	162,000 per pallet	(1–2 pallets) . . . . . $1290.00 ea. (3+) . . . . . 1240.00 ea.
2687A/2688A Desktop Laser Printer	**92185A**	Toner. Box of 6 bottles plus one empty collection bottle. **For HP 2687A and HP 2688A only.**	18,000 per box	(1 box) . . . . . $78.00 ea. (2–5) . . . . . 72.00 ea. (6+) . . . . . 68.00 ea.
	92185B	Cleaning pads. Box of 3.	60,000 per box	(1 box) . . . . . $72.00 ea. (2–5) . . . . . 65.00 ea. (6+) . . . . . 61.00 ea.
	92185D	Ozone filters. Box of 3.	60,000 per box	(1 box) . . . . . $53.00 ea. (2–5) . . . . . 48.00 ea. (6+) . . . . . 44.00 ea.
	92185E	OPC belts. Box of 3.	45,000 per box	(1 box) . . . . . $220.00 ea. (2–5) . . . . . 210.00 ea. (6–) . . . . . 200.00 ea.
	92185T	Input Tray. Holds standard letter (8.5 × 11 in.) and European A4 (210 mm × 297 mm)	Holds 250 sheets	$87.00 ea.

HELPFUL IDEA!

Safe & easy drum disposal
When you receive your new drum, please place your old drum in the pre-paid, pre-addressed box and return it to HP for proper disposal.

Laser printer character fonts

2688A Software fonts

Times New 2™ (600-ft. mag tape)
Part no. 92187A

Times New 2™ (.25-in. tape cartridge)
Part no. 92187C

ABC abc 123 !".#$%&'()*+,-
ABC abc 123 !".#$%&'()+,-*
ABC abc 123 !".#$%&'()*+,-

Above samples represent three fonts of the Times New 2™ family . . . $955.00 ea.

Geneva 2™ (600-ft. mag tape)
Part no. 92187B

Geneva 2™ (.25-in. tape cartridge)
Part no. 92187D

ABC abc 123 !".#$%&'()*+,-
ABC abc 123 !".#$%&'()+,-*
ABC abc 123 !".#$%&'()*+,-

Above samples represent three fonts of the Geneva 2™ family . . . . . $955.00 ea.

It's easy to order: 800-538-8787

Laser printer character fonts (continued)

2687A Character font cartridges

Courier 10 Bold **Part no. 92186A**	ABC abc 1234567890!"#$%&'() *+,-./:;<=>?@[\]^_'{|}~
Courier 10 Italic **Part no. 92186B**	*ABC abc 1234567890!"#$%&'()* *+,-./:;<=>?@[\]^_'{|}~*
Courier 10 Extended **Part no. 92186C**	ùäëöüÅîØÆåíøæÄìÖÜÉ
Letter Gothic 12 Bold **Part no. 92186D**	ABC abc 1234567890!"#$%&'()*+,- ./:;<=>?@[\]^_'{|}~
Letter Gothic 12 Italic **Part no. 92186E**	*ABC abc 1234567890!"#$%&'()*+,-* *./:;<=>?@[\]^_'{|}~*
Letter Gothic 12 Extended **Part no. 92186F**	**Print samples not available at time of printing.**
Proportional Space **Part no. 92186G**	ABC abc 1234567890!"#$%&'()* +,-./:;<=>?@[\]^_'{|}~
Proportional Space Bold **Part no. 92186H**	ABC abc 1234567890!"#$%&'()* +,-./:;<=>?@[\]^_'{|}~
Proportional Space Italic **Part no. 92186J**	*ABC abc 1234567890!"#$%&'()** *+,-./:;<=>?@[\]^_'{|}~*
Prestige Elite 12 **Part no. 92186K**	ABC abc 1234567890!"#$%&'()*+,- ./:;<=>?@[\]^_'{|}~
Prestige Elite 12 Bold **Part no. 92186L**	ABC abc 12345678901"#$%&'()*+,- ./:;<=>?@[\]^_'{|}-
Prestige Elite 12 Italic **Part no. 92186M**	*ABC abc 12345678901"#$%&'()*+,-* *./:;<=>?@[\]^_'{|}~*
Pica 10 **Part no. 92186N**	ABC abc 12345678901"#$%&'() *+,-./:;<=>?@[\]^_'{|}~
Pica Bold 10 **Part no. 92186P**	ABC abc 12345678901"#$%&'() *+,-./:;<=>?@[\]^_'{|}~
Pica Italic 10 **Part no. 92186Q**	*ABC abc 12345678901"#$%&'()* *+,-./:;<=>?@[\]^_'{|}~*
Line Printer 15 **Part no. 92186R**	ABC abc 12345678901"#$%&'()*+,-./:;<=>? @[\]^_'{|}~
Script **Part no. 92186S**	*ABC abc 1234567890!"#$%&'()*+,-* *./:;<=>?@[\]^_'{|}~*
3 of 9 Barcode (9mil, 7.5 cpi) **Part no. 92186T**	*TEST-1234-TEST*

(1 cartridge font) ..... $255.00 ea.
(2–5) ..... 245.00 ea.
(6+) ..... 230.00 ea.

Quantity discounts apply to purchase of single part numbers only.

Vacuum for HP's Laser Printers traps even microscopic dust particles

Proper cleaning and preventive maintenance of the HP Laser Printer are now a reality with the HP PM VAC. Previously, cartridge type units allowed particles of toner to escape and left the user with a dust-contaminated computer room.

The HP PM VAC solves that problem by retaining particles as small as 0.3 microns in size. In addition, it is ESD groundable–it does not generate static charges that could damage sensitive microcircuits.

Packaged in a self-contained carrying case, the HP PM VAC comes complete with an economical throwaway dustbag, filter, crevice tool with brush, soft rubber gooseneck tool, stretch hose, coiled grounding wire with strap, and a 12-foot power cord. While especially designed for the HP Laser and LaserJet Printers, it also helps with preventive maintenance on most printers.

HP PM VAC	Competition
• Retains particles as small as 0.3 microns (1 micron is 1/1,000 of a millimeter)	• Retains particles measuring five microns in size
• More economical—uses low-cost, throwaway dust bags	• More expensive—uses costlier cartridge-type filters
• Improved suction—motor develops 1 horsepower	• Less power
• Quieter—noise level is less than 72 decibels	• Louder—noise level is 87 decibels
• Is ESD-groundable—does not generate static charges that could damage microcircuits	• Can create static charges damaging to the microcircuits
• Comes with more accessories (vacuum bag/filter, coiled grounding wire with strap, hose cord, crevice tool and brush, gooseneck) in vinyl carrying case	• Comes with fewer accessories

92175D HP PM VAC (includes one each of the following accessories at no charge) ..... $319.00 ea.
92175E Vacuum bags/filter (10 per box) One vacuum bag/filter included with original purchase of HP PM VAC .... 39.99 ea.

92175F Replacement stretch hose ..... 26.95 ea.
92175G Replacement cord ..... 15.25 ea.
92175H Replacement crevice tool/brush ..... 12.95 ea.
92175K Replacement rubber gooseneck ..... 15.25 ea.

HP's silent, practical and powerful printers—the perfect partners for your PCs

HP's quiet ThinkJet Printers let you think, talk, and be productive at other tasks while you quickly print at the office or in your home. And now you can obtain the same results as well as near-letter quality output (NLQ) with the QuietJet and the QuietJet Plus Printers.

All five (including the new battery-powered HP 2225P) of our ThinkJet Printers and our new QuietJet and QuietJet Plus Printers are built around HP's low-decibel, non-impact ink-jet technology. The heart of this technology is our inexpensive, disposable ink print cartridge that combines innovation and user convenience. You just snap it in, or lift it out—no handling of ribbons, no contact with ink. Simple, clean, efficient!

HP QuietJet and QuietJet Plus Printers

The QuietJet and the QuietJet Plus Printers are engineered to give ultra-quiet performance and high-quality printing. The QuietJet is almost the same printer as the QuietJet Plus—it just costs less and takes up less space! The wide-carriage QuietJet Plus Printer is perfect for larger spreadsheets while the narrow-carriage QuietJet Printer accommodates standard size paper. With the QuietJet or QuietJet Plus Printer, you can:

- Get sharp characters when printing quick drafts at 192 cps and near-letter quality (NLQ) for important letters and reports at 48 cps.
- Print graphics in three densities for professional-looking charts and illustrations.
- Change print sizes using six print pitches, and print enhancements to highlight, clarify or get more information on a page.
- Choose NLQ, draft or compressed print with just one keystroke on a convenient key panel.
- Connect to HP, IBM or Apple personal computers (Each QuietJet and QuietJet Plus Printer comes with both the Centronics and RS232 interfaces.)

The QuietJet Series printers offer excellent Z-fold paper handling with a fully adjustable tractor and a paper-advance knob. A friction-feed full platen allows for easier manual sheet-feeding.

Designed for versatility, each QuietJet Series printer has both the Centronics parallel and RS-232C serial interface—a feature normally found in higher-priced printers.

QuietJet Printer dimensions: 15.5 in. W × 4.65 in. H × 8.43 in. D (395 × 118 × 214 mm).

QuietJet Plus dimensions: 20.75 in. W × 4.76 in. H × 8.7 in. D (527 × 121 × 221 mm).

HP 2228A QuietJet Printer ... $599.00 ea.
HP 2227A QuietJet Plus Printer ..... $799.00 ea.

You can rely on the QuietJet, QuietJet Plus and ThinkJet Printers for fast, quiet and quality performance every time!

HP ThinkJet Printers

Quick, quiet, and small describe our best-priced ink-jet printer—the ThinkJet. Lightweight and compact, it allows you the convenience of personal printing whenever or wherever you need to print. With the ThinkJet Printer, you can:

- Print a standard letter in less than a minute at a print speed of 150 cps.
- Have graphics printed wth the same speed and silence.
- Connect to HP, IBM or Apple personal computers.
- Highlight and vary your output using four print pitches, underlines and bold.
- Have the convenience of using Z-Fold paper.
- Have the freedom of taking your printer anywhere.

ThinkJet dimensions: 11.5 in. W × 3.5 in. H × 8.1 in. D (292 × 89 × 206 mm).

Warranty and post warranty services for HP printers are available from more than 100 HP sales offices in the U.S. Call (800) 835-4747 for more information.

We ship your ThinkJet Printer with a print cartridge, a packet of Z-Fold paper, an owner's manual, a warranty card and a supplies brochure!

HP 2225A (HP-IB interface, includes power cord) ..... $495.00 ea.
HP 2225B (HP-IL interface, includes 1 m HP-IL cable, battery pack, recharger) ..... $495.00 ea.
HP 2225C (Centronics interface, includes power cord). For use with HP and non-HP personal computers ..... $495.00 ea.
HP 2225D (RS-232C interface, includes power cord). For use with HP and non-HP personal computers ..... $495.00 ea.
HP 2225P (Centronics interface, includes battery pack and recharger). For use with non-HP battery-powered portables ..... $495.00 ea.
92219Z Centronics cable, 3.3 ft. (1 m), shielded, 25-pin male and 15-pin male connectors (required for HP 2225P connection to cpu) ..... $49.00 ea.

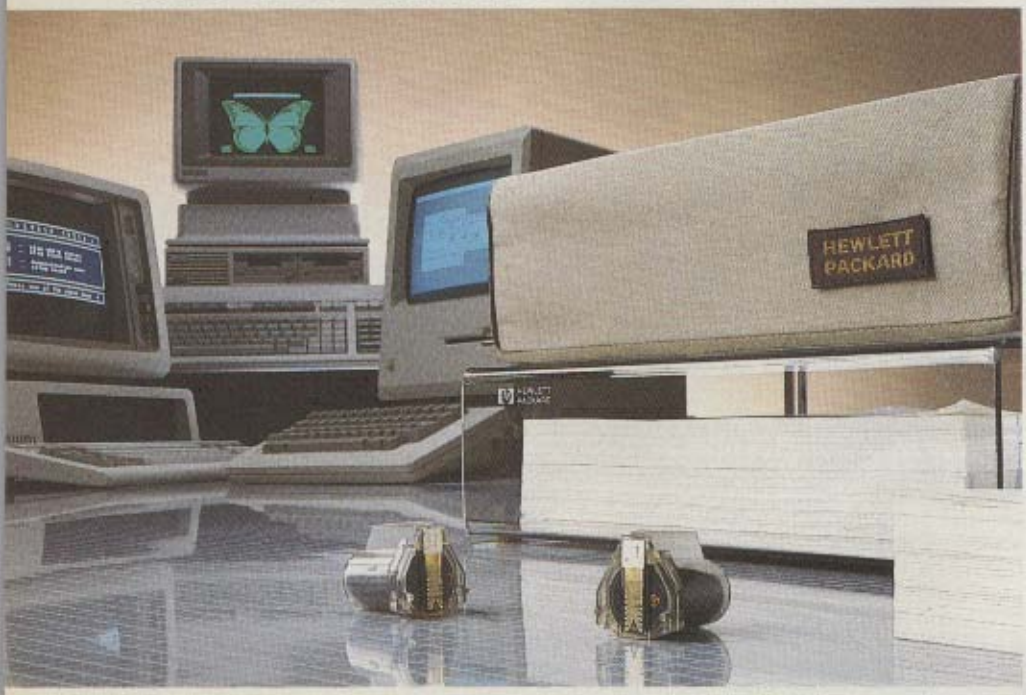
To order the right cable for your ThinkJet, QuietJet or QuietJet Plus Printer, see pages 51 and 52.

HP Ink-jet technology breaks

"Break out of your black and white routine. Ink-jet print cartridges are now available in color! You can add sparkle to your presentations and correspondence by printing in blue, green, and red. And with a QuietJet Plus Printer you can produce eye-catching wide spreadsheets like this."

For print cartridge ordering information, see page 15.

Save 15% with the 5-in-1 ThinkJet Accessory Kit



Your ThinkJet Printer can be up and running in no time at all with five ThinkJet accessories packaged into one.

Get your ThinkJet off to a great start or keep it going strong with five essential products in one convenient package. This 5-in-1 kit saves you more than 15% off the price you'd pay when you purchase these products individually.

The kit contains:

- Two black JetSeries print cartridges (each prints approx. 500 pages)
- One space-saving acrylic printer stand (holds 400 sheets of microperforated Z-Fold Jetpaper)
- One static-resistant, cotton dust cover
- 500 sheets of microperforated Z-Fold JetPaper. Finished size: 8.5×11 in. (216×279 mm).
- 500 sheets of individually-cut JetPaper (8.5×11 in. or 216×279 mm)

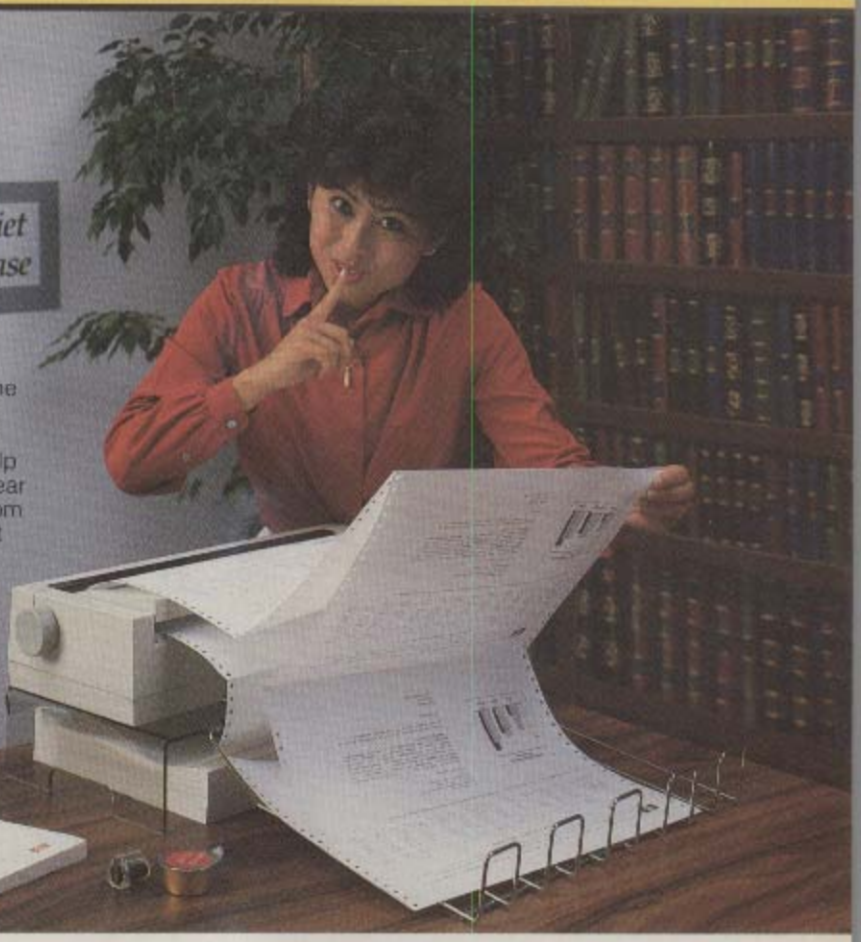
92261D ThinkJet Accessory Kit. ..... $85.00 ea.

See our full line of ThinkJet and QuietJet Series printer supplies on page 15.

he color and sound barrier

"Shhhh! My QuietJet Plus Printer performs so noiselessly that library visitors aren't even aware of its presence. It's in use constantly—printing everything from letters to mailing labels, graphs, and spreadsheets. Here are two accessories that make the QuietJet, the QuietJet Plus or the ThinkJet easier to use."

Quiet Please



Wire paper catcher attaches to printer stand to allow the paper to neatly refold and stack as it flows from your QuietJet or QuietJet Plus Printer. Any chance of paper running back into the printer and getting jammed is minimized. Set catcher on, or suspend it at up to a 30 degree angle from your desk. Suspended catcher will hold approximately 200 sheets.

92261G Paper Catcher for QuietJet or QuietJet Plus Printer Stand ..... $28.00 ea.

Desktop printer stands for the QuietJet, QuietJet Plus and ThinkJet increase your work surface, store paper and help control paper flow. Raised rear edges route cables away from the paper path, and support paper catcher.

92261S ThinkJet Printer Stand ..... $49.00 ea.
92261U QuietJet Printer Stand ..... 79.00 ea.
92261T QuietJet Plus Printer Stand ..... 84.00 ea.

See page 15 for quantity price breaks and more supplies.

Save 15% with 8-in-1 QuietJet Plus Accessory Kit

Start your QuietJet Plus Printer off right with a sampler kit featuring eight important products:

- Four JetSeries print cartridges in black, blue, green, and red colors. (Each prints approx. 500 pages)
- One space-saving acrylic stand (You can store 500 sheets of Z-Fold or Z-Fold Wide JetPaper under your printer)
- One static-resistant, cotton dust cover
- 500 sheets of microperforated narrow Z-Fold JetPaper (Finished size: 8.5 × 11 in. or 216 × 279 mm).
- 500 sheets of perforated Z-Fold Wide JetPaper (Finished size: 14⅞ × 11 in or 378 × 279 mm).

This kit saves you 15% off the price you'd pay when you purchase these products individually.

92261P QuietJet Plus Accessory Kit with 11-in. (279 mm) paper ..... $149.00 ea.
Narrow paper finished size: 8½ × 11 in. (216 × 279 mm)
Wide paper finished size: 14⅞ × 11 in. (378 × 279 mm)

92261X QuietJet Plus Accessory Kit with 12-in. paper
Narrow paper finished size: 8¼ × 12 in. (210 × 305 mm)
Wide paper finished size: 14¾ × 12 in. (376 × 305 mm)

Order from your local HP dealer
Call 800-367-4772 for nearest location

Keep your HP ThinkJet, QuietJet, and QuietJet Plus Printers operating at peak efficiency with JetSeries supplies and accessories. Sold separately (see below and next page) or in convenient, money-saving starter kits (see previous pages).

Save desktop space with ThinkJet stand

Terminal-top ThinkJet printer stand fits so perfectly on top of a 2392A terminal—you'll think your ThinkJet is built-in! It also works well with the Touchscreen II (HP 150) and other 239X terminals. Lower compartment holds approximately 400 sheets of fanfold ThinkJet Printer paper. This acrylic stand routes cable and power cord out of the paper path, and allows proper terminal ventilation. Dimensions: 2.5 in. (63.5 mm) H × 12.7 in. (322.6 mm) W × 10.8 in. (274.3 mm) D.

92171X

(1–2 units)	$59.00 ea.
(3–9)	53.00 ea.
(10+)	49.00 ea.

Run mailing labels on your printers

HP's pressure-sensitive, self-adhesive ink-jet labels are designed to run on your ThinkJet/QuietJet/QuietJet PLUS Printers without jamming or tearing. Economical and simple to run, these labels will be your most widely used supply. Use them on envelopes or just to identify files.

51630L Ink-Jet labels

(1–2 boxes)	$18.95 ea.
(3–11)	17.95 ea.
(12+)	16.95 ea.

Macintosh/MacPlus printing on ThinkJet/QuietJet Series Printers

With the JetStart™ software program, standard Mac/MacPlus application discs can be modified to run with the QuietJet/QuietJet PLUS and 2225D ThinkJet Printers.

JetStart™ benefits:

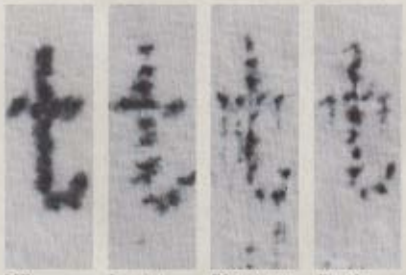
- Compatibility with Apple's enhancement option
- Enhanced word and tab spacing
- Full support of printer features
- Access to "choose" and "chooser" features in the Mac/MacPlus allowing user to switch between printers.

The 92219M cable is required for Mac/MacPlus operation with ThinkJet/QuietJet Series Printers.

35177M JetStart™	$45.00 ea.
92219M cable	45.00 ea.

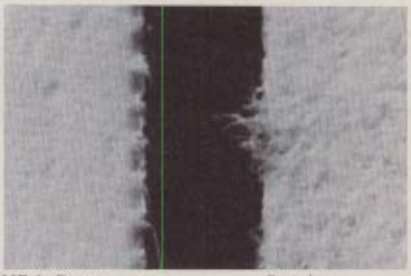
Three compelling reasons to choose HP JetPaper

1. ***HP JetPaper produces the sharpest image.*** HP JetPaper is specially engineered for printing with HP ink-jet print cartridges. When droplets of ink are "fired" from an ink-jet cartridge, the uniformly laid fibers in the HP JetPaper surface absorb the ink evenly in all directions, facilitate fast ink drying, and prevent the printed characters from smudging, running or blotting. Result: The clearest, cleanest distinct image produced by precise rounded dots with consistent sharpness and density.



HP JetPaper *Impact printer paper* *Photocopy paper* *Bond paper*

2. ***Produces cleaner edges.*** HP narrow JetPaper features ultra-fine microperforated edges to allow you to cleanly separate each sheet of paper from the printer tractor feed without accidentally tearing it. Result: Smooth, clean edges that to the unaided eye don't appear to be perforated. No one will ever know its finished size was never its original size!



HP JetPaper *Regular perforated paper*

3. ***Enhances printer reliability.*** HP JetPaper is designed to significantly reduce the amount of floating paper dust. Result: Minimal chance of dust particles clogging your ink-jet cartridge.

JetSeries supplies and accessories

Product no.	Description	Price
92261A	Black print cartridge. 600,000 characters (approx. 500 pages). Fits QuietJet, ThinkJet and QuietJet Plus Printers.	$ 9.95 ea.
51605B	Blue print cartridge. 600,000 characters (approx. 500 pages). Fits QuietJet, ThinkJet and QuietJet Plus Printers.	$12.95 ea.
51605G	Green print cartridge. 600,000 characters (approx. 500 pages). Fits QuietJet, ThinkJet and QuietJet Plus Printers.	$12.95 ea.
51605R	Red print cartridge. 600,000 characters (approx. 500 pages). Fits QuietJet, ThinkJet and QuietJet Plus Printers.	$12.95 ea.
51630A	Z-Fold JetPaper. 500 sheet box. 20 lb., microperforated. Finished size is 8.5 × 11 in. Required paper for ThinkJet, QuietJet and QuietJet Plus Printers.	(1–3 boxes). . $10.95 ea. (4+) . . . . . 9.95 ea.
51630C	Z-Fold JetPaper, 500 sheet box. 20 lb., microperforated. Finished size is 210 mm × 12 in. Required paper for ThinkJet, QuietJet and QuietJet Plus Printers.	**Available in Europe only.**
92261K	Z-Fold JetPaper, 2500 sheet box. 20 lb., microperforated. Finished size is 210 mm × 12 in. Required paper for ThinkJet, QuietJet and QuietJet Plus Printers.	**Available in Europe only.**
92261N	Z-Fold JetPaper. Five individually wrapped 500 sheet packs. (2500 sheets total.) 20 lb., microperforated. Finished size is 8.5 × 11 in. Required paper for ThinkJet, QuietJet and QuietJet Plus Printers.	(1–2 boxes). . $50.00 ea. (3–10). . . . . 48.00 ea. (11–24). . . . . 45.00 ea. (25+) . . . . . 43.00 ea.
51630B	Z-Fold Wide JetPaper. 500 sheet box. 20 lb. perforated. Finished size is 14⅞ × 11 in. Required wide paper for QuietJet Plus Printer.	(1–3 boxes). . $15.95 ea. (4+) . . . . . 14.95 ea.
51630D	Z-Fold Wide JetPaper. 2500 continuous sheet box. 20 lb. Finished size is 14⅞ × 11 in. Required wide paper for QuietJet Plus Printer.	(1–2 boxes). . $75.00 ea. (3–10). . . . . 71.00 ea. (11–24). . . . . 68.00 ea. (25–63). . . . . 65.00 ea. (64+) . . . . . 56.00 ea.
51630F	Z-Fold Wide JetPaper. 500 sheet box. 20 lb. Finished size 14⅞ × 12 in. Required wide paper for QuietJet Plus Printer.	**Available in Europe only.**
51630H	Z-Fold Wide JetPaper, 2500 sheet box. 20 lb. Finished size 14⅞ × 12 in. Required wide paper for QuietJet Plus Printer.	**Available in Europe only.**
51630J	Cut Sheet JetPaper. 500 sheet box. 20 lb. Finished size is 8.5 × 11 in. Required paper for ThinkJet, QuietJet and QuietJet Plus Printers.	(1–3 boxes). . $12.95 ea. (4+) . . . . . 11.95 ea.
51630K	Cut Sheet A4-size JetPaper, 500 sheet box. 20 lb., 210 mm × 297 mm. Required paper for ThinkJet, QuietJet and QuietJet Plus Printers.	**Available in Europe only.**
51630L	Pressure-sensitive, self-adhesive ink-jet labels. Dimensions: 3½ × 15/16 in. or 89 × 24 mm (9½ in. or 241 mm form width). Two across, 2,000 per box, fanfold. See previous page.	(1–2 boxes). . $18.95 ea. (3–11). . . . . 17.95 ea. (12+) . . . . . 16.95 ea.
92250W	QuietJet Plus dust cover.	$25.00 ea.
92250X	QuietJet dust cover.	$20.00 ea.
92250V	ThinkJet dust cover.	$15.00 ea.
13269TT	ThinkJet carrying case.	$49.00 ea.
92261G	Paper catcher for 92261U QuietJet Printer stand and 92261T QuietJet Plus Printer stand. Set catcher on, or suspend at up to a 30° angle from, your desk. Dimensions: 2.5 in. H × 16.3 in. W × 13.5 in. D (64 × 414 × 343mm).	(1–2). . . . . $28.00 ea. (3–9). . . . . 25.00 ea. (10–49). . . . . 23.00 ea. (50+) . . . . . 19.00 ea.
92261S	Acrylic mini-printer stand. See photo previous page.	(1–2 stands) . $49.00 ea. (3–9). . . . . 46.00 ea. (10+) . . . . . 41.00 ea.
92261T	QuietJet Plus Printer stand. Dimensions: 3.5 in. H. × 21 in. W. × 11.7 in. D (89 × 533 × 297mm).	(1–2). . . . . $84.00 ea. (3–9). . . . . 81.00 ea. (10–49). . . . . 79.00 ea. (50+) . . . . . 77.00 ea.
92261U	QuietJet Printer stand. Dimensions: 3.5 in. H × 15.75 in. W × 11.7 in. D (89 × 400 × 297 mm).	(1–2 units) . . $79.00 ea. (3–9). . . . . 73.00 ea. (10–49). . . . . 69.00 ea. (50–) . . . . . 66.00 ea.
92171X	Terminal-top ThinkJet Printer stand. Dimensions: 2.5 in. H × 12.7 in. W × 10.8 in. D (63.5 × 322.6 × 274.3 mm).	(1–2 units) . . $59.00 ea. (3–9). . . . . 53.00 ea. (10+) . . . . . 49.00 ea.
82199A	ThinkJet battery pack (For use with 2225B/P only)	$45.00 ea.

See the JetSeries accessory kits on pages 12 and 13.

Order from your local HP dealer
Call 800-367-4772 for nearest location

Let your message spell professionalism at a sensible price

Capable of producing superior letter-quality printing at a speed of 48 characters per second, the HP 2603A Daisywheel Printer efficiently handles all your daily business documents. It combines flexibility with outstanding performance to bring you great results every time! And, to top it off, an acoustic sound carpet is included to reduce work-disturbing printer noise.

Effortless installation and use. Daisywheels, ribbons and handling devices can be readily installed and changed within seconds. The clearly-written printer manual makes learning easy. All controls that call up such features as form feed, print pitch, length of form, etc., are conveniently located on the console. The switches that specify communications protocols, baud rate, etc., are easily accessible on the rear panel.

Ease of paper handling. A single-sheet automatic paper feeder (via a front-panel button) allows you to get perfect alignment on your first print line.

Compatibility and low cost. Compatible with the HP 3000, Vectra PC, Touchscreen (HP 150), and many other personal computers (as well as with most software packages), the HP 2603A is priced at a fraction of the cost of other high-performance printers.

2603A Daisywheel Printer† .... $1495.00 ea.

HP 2603A Printwheels††

Made of heavy (dual) plastic, for quieter printing and longer life (average life: 15 million strokes).

Courier 10** 92270A	ABC abc 0123456789 &$ "'(_^ ¨)°` +-½=|*%!/:.;?,
Prestige Elite 12** 92270C	ABC abc 0123456789 %£ *_&'()` ´^][¨ °@½"/|!+;:ℓ=-.,?
Letter Gothic 12** 92270D	ABC abc 0123456789 &$ "'(_^ ¨)°` +-½=|*%!/:.;?,
Italics 12** 92270E	ABC abc 0123456789 &$ "'(_^ ¨)°` +-½=|*%!/:.;?,
Eletto 12** 92270F	ABC abc 0123456789 &$ "'(_^ ¨)°` +-½=|*%!/:.;?,
Mikron 15** 92270G	ABC abc 0123456789 &$ "'(_^ ¨)°` +-½=|*%!/:.;?,
Kent PS** 92270H*	ABC abc 0123456789 &$ "'(_^¨)°`+-*|%!/:,;?,
Modern PS** 92270J*	ABC abc 0123456789 &$ "'(^¨)°`+-*|%!/:.:?.
Esteem Pica 10" 92270K *new!*	ABC abc 0123456789 !"#$%&' ()*+,-./:;<=>?@[\]^_`{|}~
NA Modern PS 92270Q *new!*	ABC abc 0123456789 !"#$%&' ()*+,-./:;<=>?@[\]^_`{|}~
Prestige Elite 12" Legal 92270R *new!*	ABC abc 0123456789 !"#$%&' ()*+,-./:;<=>?@[®]©_°§¶†™

Price (1–3) ..... $19.95 ea.
(4–10) ..... 17.60 ea.
(11+) ..... 15.60 ea.

Start off right with the 4-in-1 2603A Accessory Kit

Order P/N 92271B and you will receive one ribbon cartridge, one Prestige Elite 12 printwheel, one Mikron 15 printwheel and one word processing ruler with 10, 12 and 15 pitch spacing guides. The 4-in-1 kit saves you 10 percent off the price you'd pay when you purchase these products separately.

92271B Accessory kit ..... $53.95 ea.

2603 Printer enhancements save you time and effort

Triple bin feeder ensures consistent, accurate paper placement and prevents paper jams. Each bin holds 200 sheets of paper from 4 in. (102 mm) to 14 in. (356 mm) wide. Envelope bin holds up to 60 envelopes from 4×4 in. (102×102 mm) to 14×14 in. (356×356 mm).

26038E Triple bin feeder ..... $999.00 ea.

Bidirectional tractor feed mechanism accommodates continuous or multi-part forms from 4 in. (102 mm) to 14⅞ in. (378 mm) pin to pin.

26038A Bidirectional tractor feed mechanism ..... $299.00 ea.

Continuous feed fabric ribbon yields approximately 1,500,000 characters and lasts longer than the multistrike ribbon cartridge. It may be used repeatedly for initial drafts. Print quality depends on frequency of use.

92271E Continuous feed fabric ribbon ..... Two for $45.00

Multistrike ribbon cartridge yields approximately 500,000 characters or 500 pages. Actual yield depends upon your printing application. It is ideal for one-time use to produce final-quality print.

92271A Multistrike ribbon cartridge
(1–2 cartridges) ..... $16.00 ea.
(3–9) ..... 14.40 ea.
(10+) ..... 12.80 ea.

†Sorry, but quantity, contract, or other discounts do not apply to the special off-the-shelf service.

††For North Atlantic wheels call 800-538-8787

*PS = Proportional spaced.

**Contains Roman 8 character set.

Automatic Daisywheel sheet feeder saves you time and effort

921770/R PersonalFeeder™ for your 2601A/2602A Daisywheel Printers offers the professional look of single-sheet stationery and the convenience of continuous forms! Manual paper handling is practically eliminated. You no longer have to align each sheet by hand or arrange them in order. The feeder does it for you–automatically.

However, a manual override feed slot is available for insertion of odd-sized sheets, labels and envelopes.

This lightweight ergonomically designed PersonalFeeder™ allows for quick and simple operator installation on either HP 2601A or HP 2602A Daisywheel Printers.

Programs supported by the PersonalFeeder™ for the HP 150: MemoMaker, 1-2-3™ by Lotus™, and WordStar®.

Paper bin capacity: 175 sheets

Paper sizes: 6 × 7 inches to 14 × 14 inches (152.4 × 177.8mm to 355.6 × 355.6 mm)

Paper weights: 18 to 24 pounds basis weight

Manual feed slot: Maximum width 14 inches (355.6mm)

Interface: Direct drive from platen gear

Feed: a single sheet for every 90 lines of copy

Size: 5 inches (127 mm) H × 20.5 inches (520.7 mm) W × 12 inches (304.8mm) D

921770 PersonalFeeder™ for 2601A ..... $395.00 ea.

921777R PersonalFeeder™ for 2602A ..... $395.00 ea.

Restore life to your platen

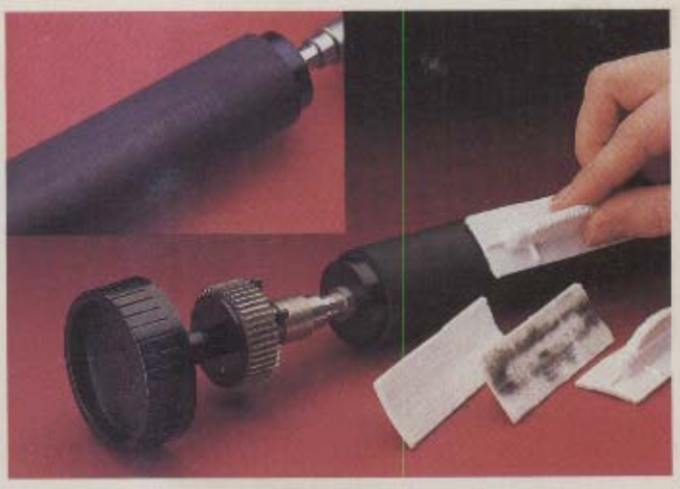
92193T Platen Cleaner Pak™ puts the "Papergrip" back in worn and used platens. Regular usage eliminates roller glaze, white masking paint, paper tars and clays. Saves money on platen replacements too!

Simply squeeze the cleaning pak to release the solution and you're ready to clean your platen quickly and easily.

For use with your HP 2601A/2602A Printer.

Contains 10 disposable Platen Cleaner Paks (use one pak per cleaning)

Price ..... $16.00 ea.



The inset photograph clearly illustrates the difference our Platen Cleaner Pak™ can make. Just a few quick strokes removes built-up dirt and residue that otherwise might shorten the life of your platen.

Space-efficient printer stand conveniently stores and feeds paper

92171S Desktop printer stand. Versatile acrylic printer stand is perfect for HP's 82905A/B and 82906A Printers.

Fanfold and cut-sheet paper fit conveniently inside–providing organization and improved paper flow. Stand can accommodate paper 4 inches (102mm) to 10 inches (254mm) wide.

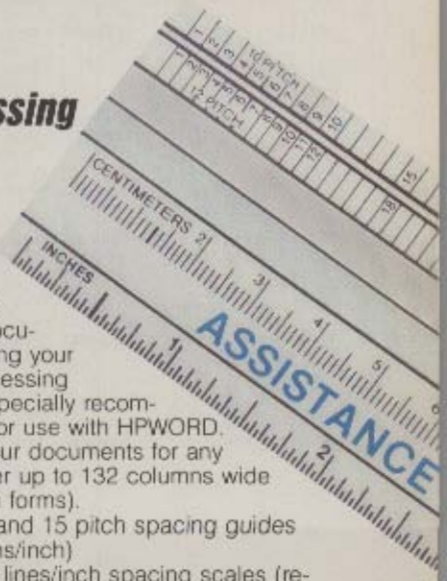
Exterior dimensions: height 3.37 inches (85mm); width 16.5 inches (419mm); depth 14 inches (355mm). The right size for personal/office workstations.

(1–2) ..... $59.00 ea.
(3+) ..... 53.00 ea.

92171S Desktop printer stand makes handling fanfold paper a snap! For your 82905A/B and 82906A Printers.

Looking for ways to cut printer noise? Be sure to see our wide line of sound control devices, page 89.

Word processing ruler



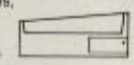
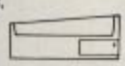
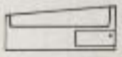
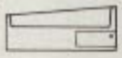
This handy ruler can help you create the perfect documents using your word processing system. Specially recommended for use with HPWORD. Design your documents for any size printer up to 132 columns wide (14⅞-inch forms).

- 10, 12, and 15 pitch spacing guides (positions/inch)
- 6 and 8 lines/inch spacing scales (reverse side)
- See-through windows for easy reading
- Convenient 15-inch length

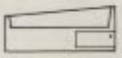
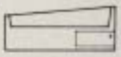
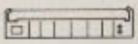
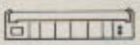
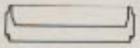
5957-8407 ..... $4.00 ea.

It's easy to order: 800-538-8787

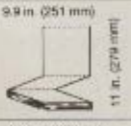
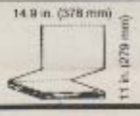
Impact printer ribbons

Impact printer model number	Part number/ description		Dimensions & measurements	Unit of measure	Price	Cross-reference to other supplies & accessories
2563A/2564B Dot Matrix Printers	**92158A** Ribbon cartridges, mobius loop construction, continuous feed. Blue/black print.		.75 in. (3/4) ribbon, 100 yards 30 million characters	**Box of 3**	(1–2 boxes) . . . . . $77.00 ea. (3–7) . . . . . 69.50 ea. (8+) . . . . . 62.00 ea.	See: Paper . . . . . pg. 19 Printer stand . . . . . pg. 78
	92158M Ribbon cartridges, for optical mark recognition applications. Blue/black print.		.75 in. (3/4) ribbon. 100 yards 3 million characters	**Box of 3**	(1–2 boxes) . . . . . $77.00 ea. (3–7) . . . . . 69.50 ea. (8+) . . . . . 62.00 ea.	
2565A/2566A/2567B High Speed Dot Matrix Printers	**9282-0545** Wide nylon ribbon. Blue/black print		15 in. ribbon, 20 yards, .004 in. thick 1 million lines	**Each**	(1–3 ribbons) . . . . $49.00 ea. (4+) . . . . . 35.00 ea.	See: Paper . . . . . pg. 19
2601A Daisywheel Printer	**92151C** Multistrike, high-capacity, reel-to-reel ribbon cartridges. Black print.		.31 in. (5/16) ribbon, 235,000 characters	**Box of 12**	(1 box) . . . . . $60.00 ea. (2–3) . . . . . 57.00 ea. (4+) . . . . . 55.00 ea.	See: Paper . . . . . pg. 19 Printer stand . . . . . pg. 81 Printwheel cleaning kit . . . . . pg. 21 Printwheels, plastic & metal . . . . . pg. 21 Printwheel storage album . . . . . pg. 20 Sound absorbing mat . . . pg. 89
	92151D Fabric, continuous cycle feed ribbon cartridges. Black print.		.31 in. (5/16) ribbon, 1 million characters	**Box of 12**	(1 box) . . . . . $62.00 ea. (2–3) . . . . . 59.00 ea. (4+) . . . . . 57.00 ea.	
2602A Daisywheel Printer	**92151H** Multistrike, high capacity reel-to-reel ribbon cartridge. Black print.		.31 in. (5/16) ribbon, 450,000 characters	**Box of 12**	(1 box) . . . . . $78.00 ea. (2–3) . . . . . 74.00 ea. (4+) . . . . . 71.75 ea.	See: Paper . . . . . pg. 19 Printwheels . . . . . pg. 21 Printwheel storage album . . . . . pg. 20
2603A Daisywheel Printer			see page 16 for details			
2607A Dot Matrix Line Printer (Also **9881A** Printer and **12987A** Subsystem)	**9282-0531** Nylon ribbon. reel-to-reel. Black print.		.75 in. (3/4) ribbon, 36 yards, .005 in. thick	**Each**	Minimum order 6 ribbons (6–23 ribbons) . . . . . $8.70 ea. (24+) . . . . . 6.20 ea.	See: Paper . . . . . pg. 19
2608A/S Dot Matrix Printer	**92158A** Ribbon cartridges, mobius loop construction, continuous feed. Blue/black print.		.75 in. (3/4) ribbon, 100 yards 30 million characters	**Box of 3**	(1–2 boxes) . . . . . $77.00 ea. (3–7) . . . . . 69.50 ea. (8+) . . . . . 62.00 ea.	See: Layout forms . . . . . pg. 20 Paper . . . . . pg. 19
	92158M Ribbon cartridges, for optical mark recognition applications. Blue/black print.		.75 in. (3/4) ribbon. 100 yards 3 million characters	**Box of 3**	(1–2 boxes) . . . . . $77.00 ea. (3–7) . . . . . 69.50 ea. (8+) . . . . . 62.00 ea.	
2611A Line Printer	**1535-3914** Wide nylon ribbon for normal print applications. Blue/black print.		14 in. ribbon, 15 yards, .005 in. thick	**Each**	(1–2 ribbons) . . . . . $36.00 ea. (3–11) . . . . . 30.00 ea. (12+) . . . . . 26.00 ea.	See: Paper . . . . . pg. 19 VFU tape, prepunched . . . . . pg. 20
	92230A Wide nylon ribbon. For high-contrast print applications. Black print.		14 in. ribbon, 18 yards, .004 in. thick 360,000 lines	**Each**	(1–2 ribbons) . . . . . $52.00 ea. (3–11) . . . . . 43.00 ea. (12+) . . . . . 38.00 ea.	
2613A Line Printer (Also **12975A** Subsystem) **2617A Line Printer** (Also **13053A** Subsystem)	**9282-0545** Wide nylon ribbon. Blue/black print.		15 in. ribbon, 20 yards, .004 in. thick	**Each**	(1–3 ribbons) . . . . $49.00 ea. (4–) . . . . . 35.00 ea.	See: Paper . . . . . pg. 19 VFU tape, prepunched . . . . . pg. 20
2618A Line Printer (Also **12983A** Subsystem)	**9282-0543** Wide nylon ribbon. Blue/black print.		14.5 in. (14 1/2) ribbon, 20 yards, .004 in. thick	**Each**	(1–3 ribbons) . . . . $55.00 ea. (4+) . . . . . 39.00 ea.	See: Paper . . . . . pg. 19 VFU tape, prepunched . . . . . pg. 20
2619A Line Printer	**1535-3914** Wide nylon ribbon for normal print applications. Blue/black print.		14 in. ribbon, 15 yards, .005 in. thick 1 million lines	**Each**	(1–2 ribbons) . . . . . $36.00 ea. (3–11) . . . . . 30.00 ea. (12+) . . . . . 26.00 ea.	See: Paper . . . . . pg. 19 VFU tape, prepunched . . . . . pg. 20 Vacuum bags . . . . . pg. 20
	92230A Wide nylon ribbon. For high-contrast print applications. Black print.		14 in. ribbon, 18 yards, .004 in. thick	**Each**	(1–2 ribbons) . . . . . $52.00 ea. (3–11) . . . . . 43.00 ea. (12+) . . . . . 38.00 ea.	

Impact printer ribbons (continued)

Impact printer model number	Part number/ description	Dimensions & measurements	Unit of measure	Price	Cross-reference to other supplies & accessories
2631A/B Dot Matrix Printer **2635A/B Printing Terminal** **2639A Printing Terminal**	**92155A** Ribbon cartridges, mobius loop construction, continuous feed. Black print. 	.75 in. (3/4) ribbon, 55 yards 15 million characters	**Box of 3**	(1–2 boxes) . . . . . $65.00 ea. (3–7) . . . . . 56.00 ea. (8+) . . . . . 49.00 ea.	See: Paper . . . . . see below Print head . . . . . pg. 20 Print stand . . . . . pg. 81
2631G Graphics Printer	**92155B** Ribbon cartridges, used with 2631G, opt. 200 only. Black print. 	.75 in. (3/4) ribbon, 55 yards, 5000 bar code labels (10 char. each)	**Box of 3**	(1–2 boxes) . . . . . $72.00 ea. (3–7) . . . . . 63.00 ea. (8+) . . . . . 57.00 ea.	
2767A Line Printer	**9300-0427** Wide nylon ribbon. Blue/black print.	9 in. ribbon, 28 yards, .005 in. thick	**Each**	(1–3 ribbons) . . . . $38.00 ea. (4–35) . . . . . 30.00 ea. (36+) . . . . . 27.00 ea.	
2932/33/34A Dot Matrix Printers	**92155L** Ribbon cartridges, continuous feed. Black print. 	.75 in. (3/4) ribbon, 50 yards, 10 million characters	**Box of 3**	(1–2 boxes) . . . . . $72.00 ea. (3–7) . . . . . 62.00 ea. (8+) . . . . . 56.00 ea.	See: Paper . . . . . see below Paper catcher . . . . . pg. 20 Plug-in type cartridges 2934 only . . . . . pg. 22 Print head . . . . . pg. 20 Printer stands . . . . . pg. 78
2934A Dot Matrix Printer	**92155M** OCR ribbon cartridge (used to print bar code) 	.75 in. (3/4) ribbon 50 yards, 4000 bar code labels (10 characters each)	**Box of 3**	(1–2 boxes) . . . . . $79.00 ea. (3–7) . . . . . 69.00 ea. (8+) . . . . . 59.00 ea.	
82905A/B Dot Matrix Printer **82906A Dot Matrix Printer**	**92156A** Ribbon cartridges continuous feed. Black print. 	.5 in. (1/2) ribbon. 20 yards. 3 million characters.	**Box of 2**	(1–2 boxes) . . . . . $22.00 ea. (3–7) . . . . . 20.00 ea. (8+) . . . . . 18.00 ea.	See: Paper . . . . . see below Print head . . . . . pg. 20 Print stand . . . . . pg. 93
9871A Character Printer	**9282-0561** Nylon ribbon cartridge. Black print.	.31 in. (5/16) ribbon, 16 yards, 500,000 characters	**Each**	Minimum order 6 ribbons (6–11) . . . . . $5.50 ea. (12–35) . . . . . 4.40 ea. (36+) . . . . . 3.20 ea.	See: Paper . . . . . see below Printwheels . . . . . pg. 22

Impact printer paper

For use with	Part number/ description		Dimensions & measurements	Unit of measure	Price
2563A **2564B** **2565A** **2566A** **2567B** **2601A** **2602A** **2603A** **2607A** **2608A/S** **2611A** **2613A** **2617A** **2618A** **2619A** **2631/35/39** **2932A** **2933A** **2934A** **82905A/B** **82906A** (Must have optional tractor feed mechanism to use 9280-0705 or 9280-0218 papers.) **9871A**	**92157A** Fanfold, blank printer paper.	9.5 in. (241 mm); 8.5 in. (216 mm); 11 in. (279 mm)	18 lb. bond, white, 2400 sheets/box	**Box**	(1–2 boxes) . . . . . $41.00 ea. (3–5) . . . . . 37.00 ea. (6–11) . . . . . 35.00 ea. (12+) . . . . . 33.00 ea.
	92157B Fanfold, 3-hole punched, blank printer paper.	see 92157A illustration above.	18 lb. bond, white, 3200 sheets/box	**Box**	(1–2 boxes) . . . . . $50.00 ea. (3–5) . . . . . 46.00 ea. (6–11) . . . . . 44.00 ea. (12+) . . . . . 42.00 ea.
	92157C Fanfold, microperforated printer paper for high-quality word processing applications.	see 92157A illustration above.	20 lb. no. 1 bond, white, 2400 sheets/ box	**Box**	(1–2 boxes) . . . . . $59.00 ea. (3–5) . . . . . 56.00 ea. (6–11) . . . . . 54.00 ea. (12+) . . . . . 52.00 ea.
	92157D Fanfold, blank printer paper **Available in Europe only.**	9.5 in. (240 mm); 8.26 in. (210 mm); 12 in. (305 mm)	18 lb. bond white, 2400 sheets box	**Box**	
	9280-0705 72-column blank printer paper.	8.5 in. (216 mm); 7.5 in. (191 mm); 11 in. (279 mm)	15 lb. bond, white, 3200 sheets/box	**Box**	(1–67 boxes) . . . . . $47.00 ea. (68+) . . . . . 40.00 ea.
	9280-0218 80-column green-bar printer paper. 	9.9 in. (251 mm); 11 in. (279 mm)	15 lb. bond green-bar 0.5 in. (1/2) 3200 sheets/ box	**Box**	(1–51 boxes) . . . . . $52.00 ea. (52+) . . . . . 44.00 ea.
All above except 82905A/B 82906A	**9320-1515** 132-column blue-bar printer paper. 	14.9 in. (378 mm); 11 in. (279 mm)	18 lb. bond blue-bar 0.5 in. (1/2) 2400 sheets/ box	**Box**	(1–2 boxes) . . . . . $55.00 ea. (3–5) . . . . . 47.00 ea. (6–11) . . . . . 44.00 ea. (12+) . . . . . 42.00 ea.

It's easy to order: 800-538-8787

Impact printer supplies

Printer	Order supply no.	Description	Price
2601A	92167W	9.5 × 11.6 in. (241 × 295mm) Printwheel storage album. Color is bone with black accent. Holds six printwheels.	(1–2 albums) ..... $13.00 ea. (3–4) ..... 12.00 ea. (5+) ..... 11.00 ea.
	92177J	Extra paper trays for HP 26010D sheet feeder. (8.5 × 11 inch)	(1–2 trays) ..... $100.00 ea. (3+) ..... 90.00 ea.
	92177K	(landscape: 11 × 8.5 inch)	
	92177L	(legal: 8.5 × 14 inch)	
	92177M	(210 × 297mm/A4)	
	92177N	(landscape: 297 × 210mm/A4)	
2602A	92167V	12 × 13.3 in. (305 × 338mm) Printwheel storage album. Bone-colored with brown accent. Holds six 98-character printwheels.	(1–2 albums) ..... $15.00 ea. (3–9) ..... 12.00 ea. (10+) ..... 10.00 ea.
2603A Daisywheel Printer		see page 16 for supplies	
2608A/S	02608-60091	Package of layout forms. Total 250 sheets on 5 pads.	$17.00 pkg.
2611A 2613A 2617A 2618A 2619A	02613-80001	Individual pre-punched VFU. (66 lines/page)	$8.70 ea.
	02619-80003	(88 lines/page)	$10.00 ea.
	4114-0371	Blank VFU tape, self adhesive. 25 blank tapes per package.	(1 pkg) ..... $41.00 ea. (2+) ..... 37.00 ea.
	9300-0750	Package of 3 vacuum bags (minimum order 5 packages).	$4.10 ea.
2619A	92230B	Chain train oil. 1 oz. bottle.	$8.50 ea.
	92230C	Chain train oil. 1 qt. refill bottle.	$67.50 ea.
2631/A/B/G 2635/39	92154G	Replacement print head.	(1–2 heads) ..... $185.00 ea. (3+) ..... 160.00 ea.
2932/33/34A Dot Matrix Printers	92154B	Replacement print head.	$140.00 ea.
	92171G	Printout paper catcher. Wire construction, easy mounting.	(1–2 catchers) ..... $48.00 ea. (3–9) ..... 42.00 ea. (10+) ..... 38.00 ea.
82905A/B	92154P	Print head. Reliable and user installable. Average life is 50 to 100 million characters.	$109.00 ea.
82906A	92154N	Print head. User installable. Average life is 50 to 100 million characters.	$141.00 ea.
Miscellaneous supplies	92231A	12-Channel VFU tape punch. Will punch either six or eight lines-per-inch control tapes. Splicing easy with precision registration pins and hold-down arms on punch. Bidirectional control knob moves tape easily through punch.	$225.00 ea.
	92231B	Paper perforator tape. Box of 28 Rolls. (Supersedes 9280-0063.) Oiled gray paper tape, 1 in. (25.4 mm). Each roll 1000 ft. (305 m) long.	(1 box) ..... $93.00 ea. (2–4) ..... 81.00 ea. (5–9) ..... 75.00 ea. (10+) ..... 73.00 ea.

2601A Daisywheel Printer**

Plastic printwheels –96 character
Note: sold in boxes of six each.

Pica 10 **Part no. 92252A**	ABC abc 0123456789 ¢!"#$%&' ()*+,-./:;<=>?@[\]^_`{|}~¬
Courier 10 **Part no. 92252B**	ABC abc Ø123456789 £!"#$%&' ()*+,-./:;<=>?@[\]^_`{|}~¬
Manifold 10 **Part no. 92252C**	ABC ABC 0123456789 ¢!"#$%&' ()¨+,-./:;<=>?@[\]ß_◊{|}¤¬
OCR-B 10 **Part no. 92252F**	ABC abc 0123456789 £!"#$%&' ()*+,-./:;<=>?@[\]^_`{|}~¤
Courier Legal 10A **Part no. 92252G**	ABC abc 0123456789¢!"#$%&' ()*+,-./:;½=¼?@[\]^_°§¶†"_
Elite 12 **Part no. 92252H**	ABC abc ¢!"#$%&'()*+,-./:;<=>? @[\]^_`{|}~¬ 0123456789
Prestige Elite Legal 12A **Part no. 92252J**	ABC abc 0123456789 ¢!"#$%&°()*+ ,-./:;$=†?@[\]^_'¼_¶™½
Courier 72 **Part no. 92252K**	ABC abc 0123456789¢!"#$%&' ()*+,-./:;<=>?@[\]^_`{|}~¬
General Scientific **Part no. 92252L**	∇∞¥Φ←<Λ¶†>§ΩϑσΓΘΣ→Ξ¤ΔΞΤ= αβψφειληιμκωμνοργθστξ×δχυζ 0123456789 ∇π•{}±ſ÷)ſſ´¯˜ ^¨Π¿†∫|✓=+¸_°⊕⊕™^¶

(1 box of six printwheels)	$42.00 ea.
(2–4)*	36.00 ea.
(5+)*	32.80 ea.

†PS-Proportional Spaced. This wheel does not work with WordStar® software.

Metalized printwheels –88 character
Note: sold as single wheels.

Titan 10 **Part no. 92153A**	ABC abc 0123456789 ¢!"#$% &'()*+,-./:;¼=½?@_,.
Pica 10 **Part no. 92153B**	ABC abc 0123456789 ¢!"#$%& '()*+,-./:;¼=½?@_,.
Elite 12 **Part no. 92153C**	ABC abc 0123456789 ¢!"#$%& '()*+,-./:;¼=½?@_,.
Letter Gothic 12 **Part no. 92153D**	ABC abc 0123456789 ¢!@#'$%& (*)_,+¼=½,?:";-./.
Bold PS† **Part no. 92153E**	ABC abc 0123456789 ¢!"#$%& '()*+,-./:;¼=½?@_,.

(1–2 wheels)	$60.00 ea.
(3–5)*	55.00 ea.
(6+)*	51.00 ea.

Metalized printwheels –96 character
Note: sold as single wheels

Titan 10 **Part no. 92153U**	ABC abc 0123456789¢!"#$%&' ()*+,-./:;<=>?@[\]^_{|}~¬
Financial 10 **Part no. 92153V**	ABC 0123456789 ≠cd6f⊥8†*Đ↓m5 ∅⊗/4129⅝3⊠▽@]!¿#$⊠&≠Ω%*+, -./.,‡=□?⊗[^\△_`{⊞}~-
Cubic PS† 96 **Part no. 92153W**	ABC abc 0123456789 ¢!"#$%&' ()*+,-./:;<=>?@[\]^_`{|}~¬

(1–2 wheels)	$70.00 ea.
(3–5)*	65.00 ea.
(6+)*	62.00 ea.

*Quantity discounts apply to purchase of single part numbers only.

**For information on international printwheels for the HP 2601A/2602A Printers, contact us at (800) 538-8787.

Printwheel clean kit for your HP 2601A

Keep your HP 2601A print characters sharp and smudge-free without a messy cleaning job. Using the HP printwheel clean kit is a quick and easy process. Simply attach the wheel to the interchangeable wheel holder, then apply the cleaning solution to the element pad, close the lid and give the outside knob a few turns.

92193C Printwheel clean kit. Includes the cleaner box, a single element pad, an interchangeable wheel holder and a 4-ounce bottle of cleaning solution. Each pad can be used for approximately 20 cleanings and is then easily replaced.

(1 kit)	$22.00 ea.
(2–4)	20.00 ea.
(5+)	19.00 ea.

92193D Printwheel clean kit refill. Included is a 4-ounce bottle of cleaning solution and a cleaner element pad. The element pad is good for approximately 20 cleanings.

(1–4 refills)	$17.00 ea.
(5+)	15.00 ea.

It's easy to order: 800-538-8787

2602A Daisywheel Printer**

USASCII printwheels

Plastic print-wheels –96 character

Courier 10 **Part no. 92262A**	ABC abc 012345 ,.:;-+$# ¢¬£¤ %{}[]()>=<¯'^`?!@*/|\&"_
Prestige Pica 10 **Part no. 92262B**	ABC abc 012345 ,.:;-+$# ¢¬£¤ %{}[]()>=<¯'^`?!@*/|\&"_
Courier 12 **Part no. 92262D**	ABC abc 0123456789 ,.:;-+$#%{}[] ()>=<¯'^`?!@*/|\&"_ ¢¬£¤
Prestige Elite 12 **Part no. 92262E**	ABC abc 0123456789 ,.:;-+$#%{}[] ()>=<¯'^`?!@*/|\&"_ ¢¬£¤

Note: sold as single wheels.

†PS-Proportional Spaced. This wheel does not work with WordStar® software.

Letter Gothic 12 **Part no. 92262F**	ABC abc 0123456789 ,.:;-+$#%{}[] ()>=<¯'^`?!@*/|\&"_ ¢¬£¤
Bold Face PS† **Part no. 92262G**	ABC abc 0123456789 ,.:;-+$#%{}[]() >=<¯'^`?!@*/|\&" ¢¬£¤

(1 wheel)	$15.00 ea.
(2–5)*	14.00 ea.
(6+)*	12.00 ea.

*Quantity discounts apply to purchase of single part numbers only.

**For information on international printwheels for the HP 2601A/2602A Printers, contact us at (800) 538-8787.

9871A Impact Printer

Package of three print discs. Each package contains three identical, 96-character print discs. Available in following character sets:

1530-0697	(Standard)	**1530-1851**	(Katakana)	(1–5 pkg)	$17.00 ea.
1530-1810	(European)	**1530-1895**	(Cyrillic)	(6–11)	15.00 ea.
1530-1811	(ASCII)	**1530-2022**	(APL)	(12+)	13.00 ea.

2934A Plug-in character style cartridges

92188A Courier 10

ABCabc123,-.!"#$%&'()*+<=>?|}~ÀÅÈ
ÉÐÞ‡:`´¨~ÙÛ£¯ÇçÑñ¡¿¤£¥§ƒ¢âêôûáéóú
àèòùäëöüÅîØÆåíøæÄìÖÜÿÞþ–½¾ª«■»±■

92188B Courier 12

ABCabc123,-.!"#$%&'()*+<=>?|}~■ÀÅÈÉÐÞ‡:`
´¨~ÙÛ£¯ÇçÑñ¡¿¤£¥§ƒ¢âêôûáéóúàèòùäëöüÅîØÆå
íøæÄìÖÜÿÞþ–½¾ª«■»±■

92188E Helv 10

ABCabc123,-.!"#$%&'()*+<=>?|}~■ÀÅÈÉÐÞ‡:`
´¨~ÙÛ£¯ÇçÑñ¡¿¤£¥§ƒ¢âêôûáéóúàèòùäëöüÅîØ
ÆåíøæÄìÖÜÿßÞþ–½¾ª«■»±■

92188G OCR A

ABC[\]^Ÿ#abc123,-.!"#$%&'()*+<=>?
:;|}■

92188H Light Italic 10

ABCabc123,-.!"#$%&'()+<=>?|}~■ÀÅÈ*
ÉÐÞ‡:`´¨~ÙÛ£¯ªÇçÑñ¡¿¤£¥§ƒ¢âêôûáéóú
àèòùäëöüÅîØÆåíøæÄìÖÜÿÞþ–½¾ª«■»±■

92188J Italic 12

ABCabc123!"#$%&'()+,-./:;<=>?@[\]^_`*
ÀÅÈÉÐÞ‡:`´¨~ÙÛ£¯ÇçÑñ¡¿¤£¥§ƒ¢âêôûáéóú
àèòùäëöüÅîØÆåíøæÄìÖÜÿÞþ–½¾ª«■»±■(|)~■

92188K Orator 12

ABC123!"#$%&'()*+,-./:;®]©_°_=¢?¶†™℠

92188M Prestige Pica 10

ABCabc123,-.!"#$%&'()*+<=>?|}~■ÀÅÈ
ÉÐÞ‡:`´¨~ÙÛ£¯ÇçÑñ¡¿¤£¥§ƒ¢âêôûáéóú
àèòùäëöüÅîØÆåíøæÄìÖÜÿÞþ–½¾ª«■»±■

92188N Prestige Elite 12

ABCabc123,-.!"#$%&'()*+<=>?ÀÅÈÉÐÞ‡:`´¨~
ÙÛ£¯ÇçÑñ¡¿¤£¥§ƒ¢âêôûáéóúàèòùäëöüÅîØÆå
íøæÄìÖÜÿßÞþ–½¾ª«■»±■

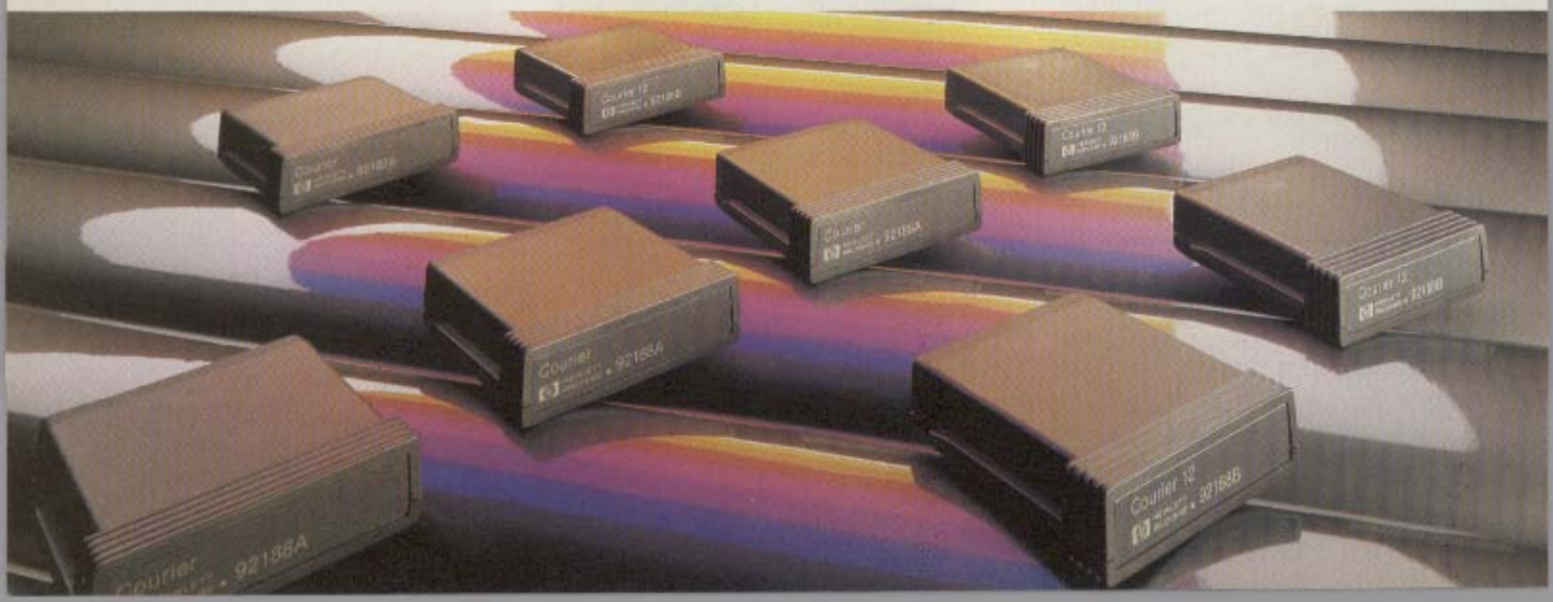
92188R Letter Gothic 12

ABCabc123,-.!"#$%&'()*+<=>?|}~■ÀÅÈ
ÉÐÞ‡:`´¨~ÙÛ£¯ÇçÑñ¡¿¤£¥§ƒ¢âêôûáéóú
àèòùäëöüÅîØÆåíøæÄìÖÜÿÞþ–½¾ª«■»±■

92188T OCR B

ABC[\]^_abc123,-.!"#$%&'()*+:;<=>?{|}■

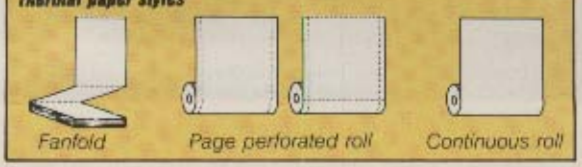
Price ..... $100.00 ea.



Thermal paper for HP computers (see paper styles below)

	Part No. &	Description	Measurements	Unit of Measure	Price
COMPUTER/ CALCULATOR	82931A	Continuous roll Blue print	4.25 in. (108 mm) width 400 ft (122m) roll length	Box of 2 rolls	(1–4 boxes) . . . . . $28.00 ea. (5+) . . . . . 24.00 ea.
85	82954A	Continuous roll Black print	4.25 in. (108mm) width 400 ft. (122m) roll length	Box of 2 rolls	(1–4 boxes) . . . . . $28.00 ea. (5+) . . . . . 24.00 ea.
125A/B Touchscreen (HP 150)			See 92160A/B thermal paper below.		
9000 Model 520	9270-0640	Fanfold pack Black print U.S. dimensioned	8.5 in (216mm) width 11 in. (279mm) length 330 sheets per pack	Box of 4 packs	(1 box) . . . . . $88.00 ea. (2–5) . . . . . 79.00 ea. (6+) . . . . . 76.00 ea.
	9270-0642	Fanfold pack Black print Metric dimensioned.	8.27 in (211 mm) width 11.69 in. (297mm) length 330 sheets per pack	Box of 4 packs	(1 box) . . . . . $88.00 ea. (2–5) . . . . . 79.00 ea. (6+) . . . . . 76.00 ea.
	9270-0643	Fanfold pack Blue print Metric dimensioned	8.27 in. (211mm) width 11.69 in. (297mm) length 330 sheets per pack	Box of 4 packs	(1 box) . . . . . $83.00 ea. (2–5) . . . . . 75.00 ea. (6+) . . . . . 71.00 ea.
9810A 9820A 9821A	9281-0401	Continuous roll Blue print	2.25 in. (57mm) width 250 ft. (76m) roll length	Box of 6 rolls	(1 box) . . . . . $22.00 ea. (2–4) . . . . . 20.00 ea. (5–19) . . . . . 19.00 ea. (20+) . . . . . 18.00 ea.
9815A/S 9825A/B/S/T 9835A/B	9270-0479	Continuous roll Blue print	2.25 in. (57mm) width 250 ft. (76m) roll length	Box of 6 rolls	(1 box) . . . . . $30.00 ea. (2–4) . . . . . 28.00 ea. (5–19) . . . . . 25.00 ea. (20+) . . . . . 23.00 ea.
	9270-0664	Continuous roll Black print	2.25 in. (57mm) width 250 ft. (76m) roll length	Box of 6 rolls	(1 box) . . . . . $30.00 ea. (2–4) . . . . . 28.00 ea. (5–19) . . . . . 25.00 ea. (20+) . . . . . 23.00 ea.
9845A/B/C/S/T	92161C	Continuous roll Black print. High contrast. U.S. dimensioned.	8.5 in. (216 mm) width 200 ft. (61 m) roll length	Box of 6 rolls	(1 box) . . . . . $67.50 ea. (2-5) . . . . . 66.00 ea. (6+) . . . . . 64.00 ea.
	92161E	Page-perforated roll Black print. High-contrast. U.S. dimensioned.	8.5 in. (216mm) width 11 in. (279mm) length 200 ft. (61m) roll length	Box of 6 rolls	(1 box) . . . . . $90.00 ea. (2–5) . . . . . 86.50 ea. (6–) . . . . . 83.00 ea.
	92161N	Continuous roll Blue print. High-contrast. Metric dimensioned.	8.27 in. (210mm) width 197 ft. (60m) roll length	Box of 6 rolls	(1 box) . . . . . $67.50 ea. (2–5) . . . . . 65.50 ea. (6–) . . . . . 63.50 ea.
	92161P	Continuous roll Black print. High-contrast. Metric dimensioned.	8.27 in. (210mm) width 197 ft. (60m) roll length	Box of 6 rolls	(1 box) . . . . . $67.50 ea. (2–5) . . . . . 65.50 ea. (6–) . . . . . 63.50 ea.
	92161R	Page-perforated roll Black print. High-contrast. Metric dimensioned.	8.27 in. (210mm) width 11.69 in. (297mm) length 197 ft. (60m) roll length	Box of 6 rolls	(1 box) . . . . . $90.00 ea. (2–5) . . . . . 86.50 ea. (6+) . . . . . 83.00 ea.
PRINTERS/ CALCULATORS	92160A	Continuous roll Blue print U.S. dimensioned	8.5 in. (216mm) width 100 ft. (30.5m) roll length	Box of 24 rolls	(1–2 boxes) . . . . . $125.00 ea. (3–23) . . . . . 115.00 ea. (24+) . . . . . 110.00 ea.
2671A 2671G 2673A 2674A	92160B	Continuous roll Black print U.S. dimensioned	8.5 in. (216mm) width 100 ft. (30.5m) roll length	Box of 24 rolls	(1–2 boxes) . . . . . $125.00 ea. (3–23) . . . . . 115.00 ea. (24–) . . . . . 110.00 ea.
	92160M	Fanfold pack Blue print U.S. dimensioned	8.5 in. (216mm) width 11 in. (279mm) length 330 sheets per pack	Box of 4 packs	(1 box) . . . . . $90.00 ea. (2–5) . . . . . 81.00 ea. (6+) . . . . . 78.00 ea.
	92160N	Fanfold pack Black print U.S. dimensioned	8.5 in. (216mm) width 11 in. (279mm) length 330 sheets per pack	Box of 4 packs	(1 box) . . . . . $90.00 ea. (2–5) . . . . . 81.00 ea. (6+) . . . . . 78.00 ea.
7240A 7245B	9270-0607	Page-perforated roll Black print Metric dimensioned	9.5 in. (241mm) width outside perforation 8.27 in. (210mm) width inside perforation 11.75 in. (298.5mm) length. 200 ft. (61m) roll length	Box of 2 rolls	(1–5 boxes) . . . . . $40.00 ea. (6–35) . . . . . 38.00 ea. (36+) . . . . . 36.00 ea.
	9270-0605	Page-perforated roll Black print U.S. dimensioned	9.5 in. (241mm) width outside perforation 8.5 in. (216mm) width inside perforation 11 in. (279mm) length. 200 ft. (61m) roll length	Box of 2 rolls	(1–5 boxes) . . . . . $40.00 ea. (6–35) . . . . . 38.00 ea. (36+) . . . . . 36.00 ea.
7310A	9270-0680	Continuous roll Black print Metric dimensioned	8.27 in. (210mm) width 246 ft. (75m) roll length	Box of 6 rolls	(1–4 boxes) . . . . . $120.00 ea. (5–29) . . . . . 114.00 ea. (30+) . . . . . 108.00 ea.
	9270-0682	Continuous roll Black print U.S. dimensioned	8.5 in. (216mm) width 246 ft. (75m) roll length	Box of 6 rolls	(1–4 boxes) . . . . . $120.00 ea. (5–29) . . . . . 114.00 ea. (30+) . . . . . 108.00 ea.
97A, 82143A, 82162A	82045A	Continuous roll, Blue print	2.25 in. (57mm) width, 80 ft. (24m) roll length	Box of 6 rolls	$12.00 ea.
82143A, 82162A, 18C	82175A	Continuous roll, Black print	2.25 in. (57mm) width, 80 ft. (24m) roll length	Box of 6 rolls	$12.00 ea.
9866A/B HP 12996 Subsystem	9270-0488	Continuous roll Black print	8.75 in. (222mm) width 250 ft. (76m) roll length	Box of 6 rolls	(1 box) . . . . . $85.00 ea. (2–4) . . . . . 77.00 ea. (5–19) . . . . . 69.00 ea. (20+) . . . . . 62.00 ea.
9876A	See 9270-0640, 9270-0642, and 9270-0643 thermal paper above.				
TERMINALS					
262X, 2675A	See 92160A/B thermal paper above.				
3075A, 3076A, 3077A	See 82045A and 82175A thermal paper above.				

Thermal paper styles



It's easy to order: 800-538-8787

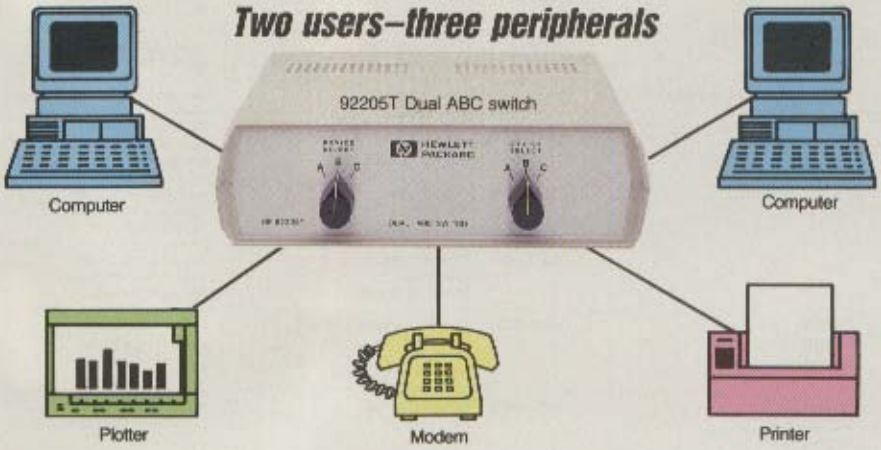
Alternate between peripherals with the flick of a switch

RS232C Dual ABC switch lets you and a co-worker share up to three peripherals and switch easily from one to another. Just twist the dial for easy communication between your Touchscreens and your modem, printer or plotter. Lightweight and compact, the 3-way switch is convenient for desktop use and eliminates the hassle of plugging or unplugging cables. Meets FCC Class B specifications and features standard female RS232C rear connectors. A typical application is shown in the illustration at right. Other possible applications include:

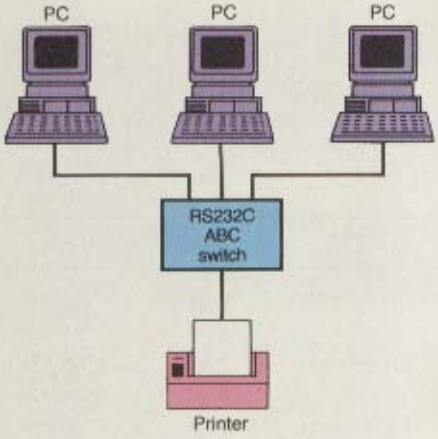
- Three users sharing two peripherals.
- Two users independently accessing up to three peripherals each.

92205T RS232C Dual ABC switch ..... $399.00 ea.
17355M 3m RS232C cable .. 60.00 ea.

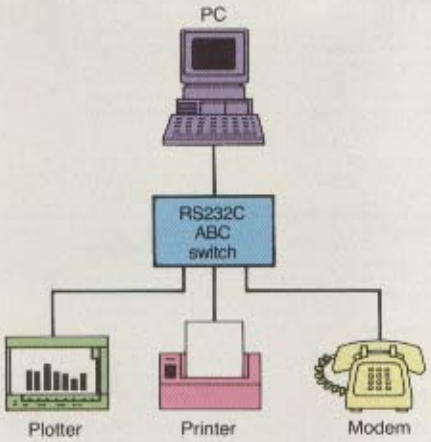
Two users–three peripherals



Three users–one peripheral



One user–three peripherals



RS232C ABC switch. An easy way to switch between your peripherals, CPU ports and datacom devices without plugging and unplugging cables. The 92178S switches between three EIA devices (all 24 lines) and your CPU or printer. Typical applications are shown in the diagrams to the left.
NOTE: This switch is a customer-installable device and does not qualify as an item which can be included under HP systems contracts.

Features:

- Sealed ceramic gold-plated switch for smooth operation.
- Monitor LED lamps for quick troubleshooting.
- Meets FCC Class B specifications.
- PC board construction for longer life and greater reliability.
- Rear connectors are standard female RS232C.

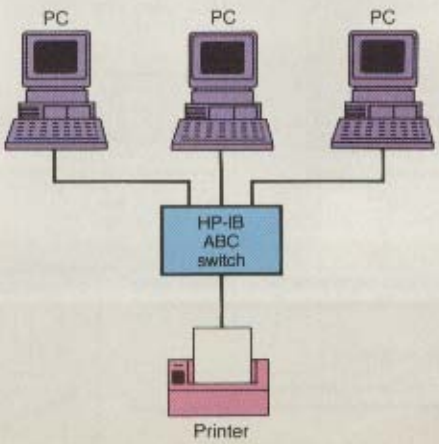
92178S RS232C ABC switch $250.00 ea.
17355M 3m RS232C cable ... 60.00 ea.

HP-IB ABC switch will enable you and two co-workers to share an HP-IB printer or plotter, or several HP-IB printers and plotters. No more plugging or unplugging cords. No more waiting. With one turn of the dial, each of you can have access to one, two, three or more peripherals.* Installation is easy. Depending on whether three PCs or terminals will be hooked up to the switch and the peripherals, you need one or more additional HP-IB cables (10833A/B/C.)

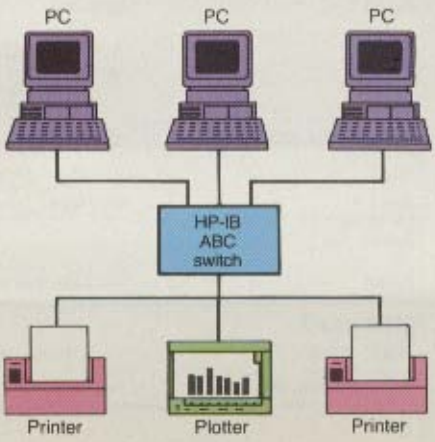
92205Y HP-IB ABC switch .. $259.00 ea.
10833A 1m HP-IB cable .... 80.00 ea.
10833B 2m HP-IB cable .... 90.00 ea.
10833C 4m HP-IB cable .... 100.00 ea.

*For use with printers and plotters only. When connecting several peripherals, make sure the total length (in meters) of all the HP-IB cables is no greater than twice the number of devices being connected.

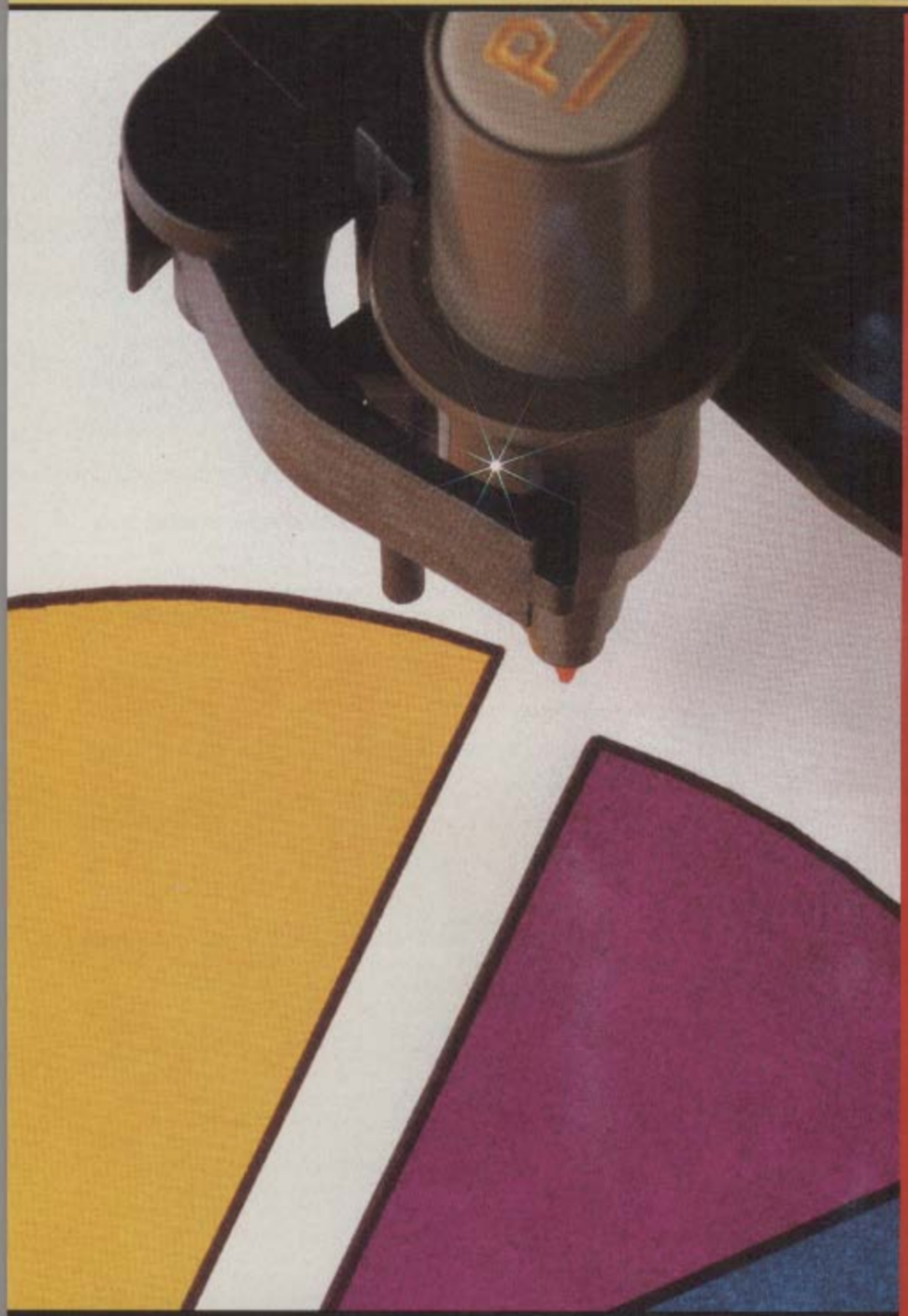
Three users–one peripheral



Three users–three peripherals



PLOTTERS



HP graphics plotters—their technological excellence is evident in the color graphics they produce—charts with evenly aligned edges, smooth curves, brilliant colors. These results are possible because HP pens and media are designed to work specifically with HP plotters. Discover our complete line of supplies in this section.

Plotter Sound Enclosure...VII

HP ColorPro 7440A Graphics Plotter 26

HP 7475A Graphics Plotter 27

Plotter media 28

Plotter pens 32

Drafting pens 34

Plotter organizers, accessories 37

Order from your local HP dealer
Call 800-367-4772 for nearest location

Add vivid colors to your business graphics

Hewlett-Packard has combined advanced technology and improved packaging into the HP ColorPro 7440A graphics plotter–at an affordable price.

The HP ColorPro eight-pen plotter combines smooth curves, well-defined diagonals, crisp characters, and vibrant colors to produce effective, high-impact business presentations. And the ColorPro Graphics Organizer acts as a stand for your plotter as well as a handy hideaway for your supplies! For more details, see page 38.

The eight-pen HP ColorPro allows you to create high-quality color graphics on either paper or transparency film quickly and easily–right at your own personal computer workstation. No more drawing or typing original charts yourself; no more bargaining with the in-house art department; no more rush charges from outside graphics services.

Colors make the mark. Choose from HP's variety of fiber-tip pens for paper and transparency plotter film, each available in two line widths for bold and fine lines. Make your statement with color and HP's ColorPro plotter will create the professional finish that will make you look impressive.

The ColorPro pays attention to detail. You know the value of quality, and the ColorPro plotter is designed and manufactured to give your presentation materials the look of professionalism you demand.

While others may be satisfied with printer output, the ColorPro plotter offers precision and accuracy–right down to the smallest details like smooth circles, straight diagonal lines, and crisp characters.

Versatility. The ColorPro plotter is easy to use and compatible with your personal computer–from the Apple IIe™ to the IBM PC™, the Compaq™ Deskpro to the HP Touchscreen II (HP 150 II) and the HP Vectra PC.

The HP ColorPro plotter for your future needs. As your graphics needs expand, the Graphics Enhancement Cartridge, available as an accessory, will add more advanced capabilities to your ColorPro plotter, such as a larger RS232C buffer (from 60 to at least 1024 bytes) and handshaking similar to the HP 7475A. Also, the Graphics Enhancement Cartridge will let you run virtually any software program written for the HP 7475A–particularly packages for technical applications and mainframe graphics–on your ColorPro plotter! What's more, you will have more than 50 HP-GL (Hewlett-Packard Graphics Language) commands available if you choose to write your own programs.

Be sure to order the correct option, along with any necessary cables.

7440A Opt. 001
(RS232C/CCITT V.24) .... $1,295.00 ea.*

Opt. 002 (HP-IB)
(IEEE 488-1978) ..... $1,295.00 ea.*

17440A Graphics
Enhancement Cartridge ... $150.00 ea.*

07440-68885 Additional
8-pen carousel** ..... $24.00 ea.

92177W ColorPro
Graphics Organizer ..... $115.00 ea.

"The plotter graphs are very neat and precise. This is important because if my presentations look good, I look good."

Bill Harwick,
Business analyst
Italian Swiss Colony Wine of California, Inc.

Warranty and post-warranty services for HP plotters are available from more than 100 HP sales offices in the U.S. Call (800) 835-4747 for more information.

Media Sizes
- 8½ × 11 in. (ANSI A)
  210 × 297 mm (ISO A4)

Media
- Paper (regular or glossy)
- Fast-drying transparency plotter film

Pens
- Number–8, automatic pen changing and capping
- Type: Fiber-tip (paper or transparency)

Resolution
- 0.025 mm (0.001 in.)

Pen Acceleration
- Approximately 1.2 g's

Pen Speed
- 40 cm/s (15.7 in./s)

Interfaces
- RS232C/CCITT V.24 or HP-IB (IEEE 488-1978)

The HP ColorPro Plotter does not have eavesdrop capability.

*Sorry, but quantity, contract, or other discounts do not apply to the special off-the-shelf service.

**Extend pen life. When your plotter is not in use, remove pens from the carousel and store them capped.

new! ***HP's 92166E Plotter Sound Enclosure can protect as well as reduce the sound of your HP ColorPro (7440), 7470 or 7475 Plotter. For more details, see page VII.***

High quality graphics that boast accuracy and precision

Add the HP 7475A graphics specialist to your technical team and you will find out why businesses around the world use the HP 7475A more than any other plotter on the market.

Whether you work in R & D, design or manufacturing, you can rely on the HP 7475A to give you precise, high-quality reproductions and drawings to meet your technical needs. The HP 7475A can easily handle your most difficult assignments–from architectural designs and mechanical drawings to measurement graphs and organizational charts.

In addition to creating 8½ × 11*-inch charts and graphs, the HP 7475A is ideally suited for 11 × 17*-inch drawings such as time lines, PERT charts, schematics, engineering drawings, project schedules and flow charts.

Drafting-needs bonus. Our liquid-ink drafting pens are specifically designed for our HP 7475A. Use them with durable, double-matte polyester film for the highest quality drafting results and reproductions.

Software plus. When it comes to software, the HP 7475A is one of the world's most widely supported plotters. Choose from hundreds of packages for a variety of technical and business applications–packages that will run on personal, desktop, mini or mainframe computers.

See your dealer for the right software for you technical or business needs.

A business graphics bonus. The HP 7475A is both a technical and business graphics specialist.

Not only will you be able to produce large scale drawings such as PERT charts, scattergrams or CAD drawings, you'll also be able to create colorful text, pie, bar and line charts. Create your high quality graphics on either paper, glossy paper or transparency film.

In addition, the HP 7475A has an easy-to-use front panel that will allow you to test pen colors, position your media to fit horizontal or vertical formats, scale or digitize points and run a built-in demo plot.

Quality with the technical advantage. The HP 7475A has outstanding accuracy and precision. It draws ruler-straight lines and crisp characters, plus it has the capability of plotting 1000 points per inch. And with no pen change you can command the HP 7475A to return to the same point within 0.1 mm (0.004 in.).

Hardware compatibility. You'll receive the same high-quality plotting results when you link up the HP 7475A to a personal computer, mainframe or smart instrument. You'll be pleased with its team performance.

7475A Opt. 001
(RS232C) ..... $1895.00 ea.**
(for cables see page 54–55)

The HP 7475A six-pen plotter is an ideal solution for your technical applications. The 92177X Graphics Organizer keeps your plotter supplies organized. For more details, see page 38.

Opt. 002
(HP-IB) ..... $1895.00 ea.**
(for cables see pages 54–55)

92177X 7475A
Graphics Organizer ..... $175.00 ea.
See page 38.

Add drafting capability to your HP 7475A Plotter!

Now the HP 7475A plotter can help with many of your design/drafting needs—drafting pens (pages 34–35), a special HP 7475A drafting pen carousel (page 36), and polyester film A/A4 and B/A3 sizes (page 31) are now available for the HP 7475A. The low-cost HP 7475A with drafting capability is the ideal plotter for PC CAD systems and other applications requiring high quality.

Drafting pens and polyester films offer several advantages for your technical applications–superior line quality, translucent media, permanent copies, opaque ink, and a choice of three line widths. Because of these characteristics, you'll want to use drafting pens for:

- engineering diagrams
- overlays
- charts for microfilm reduction
- charts requiring frequent handling
- archival copies
- camera-ready art

"The plot quality is very impressive and professional looking. This reflects positively on my business."

Gary Naylor
President
Engineering Surveys

Media sizes
- 8½ × 11 in. (ANSI A) 210 × 297 mm (ISO A4)
- 11 × 17 in. (ANSI B) 297 × 420 mm (ISO A3)

Media
- Paper (regular or glossy)
- Transparency plotter film
- Double-matte polyester film

Pens
- Number–6. Automatic pen changing and capping
- Types–Fiber-tip (paper or transparency), refillable short-body drafting

Resolution
- 0.025 mm (0.001 in.)

Pen Acceleration
- Approximately 2 g's

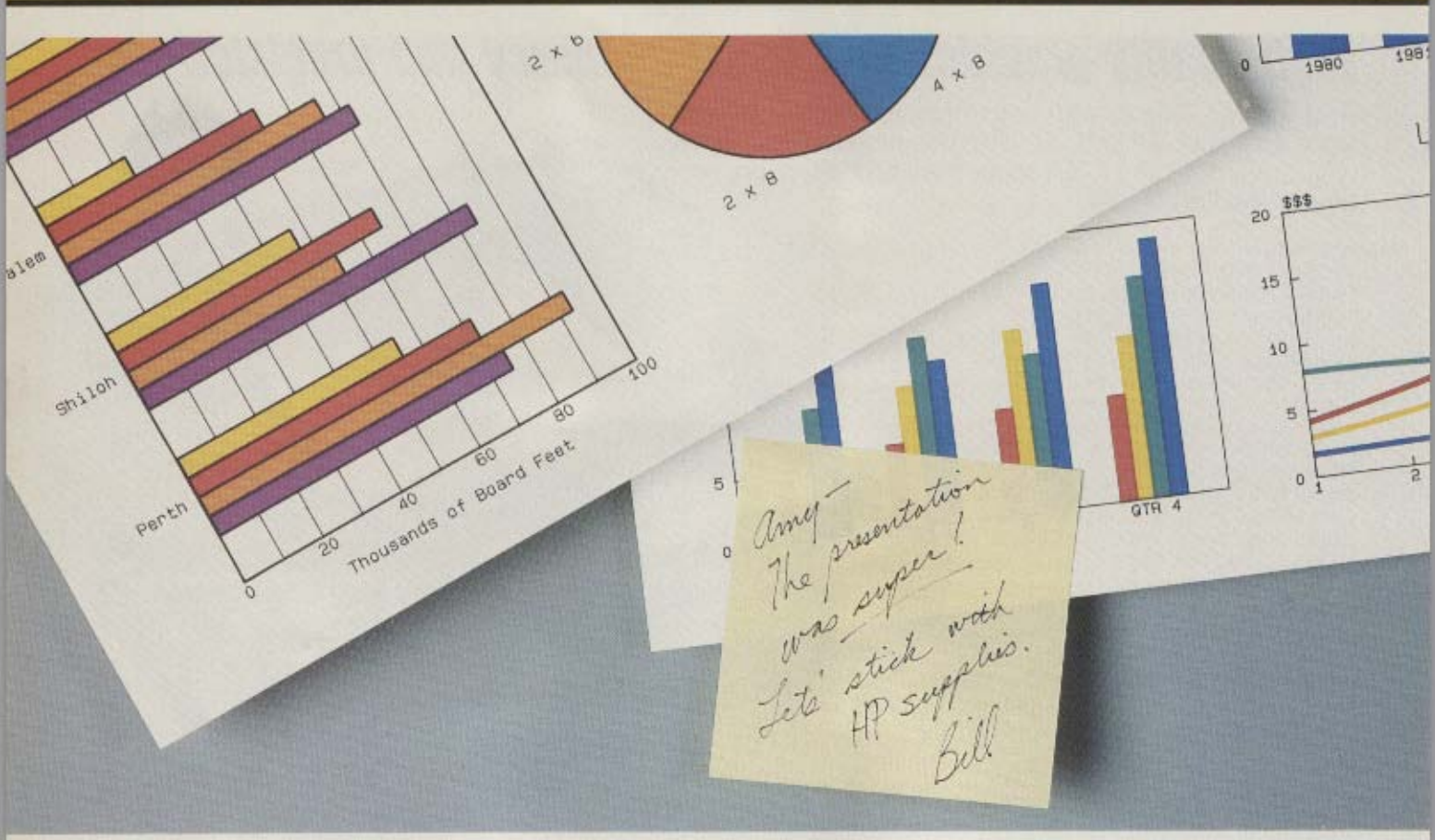
Pen Speed
- Approximately 36.1 cm/s (15.0 in./s)

Interfaces
- RS232C/CCITT V.24
- HP-IB (IEEE 488-1978)

*Also available in 210 × 297 mm or 297 × 429 mm.

**Sorry, but quantity, contract, or other discounts do not apply to the special off-the-shelf service.

It's easy to order: 800-538-8787



Choose the right paper and film for your pens

Use HP media for top-quality graphics. Pen life and plot quality are dependent on matching the pens with the media. Therefore, we manufacture our own pens and select our media carefully.

Using HP pens and media assures you of:

- Low abrasion paper matched to our pen tips and ink combinations for increased pen life.
- Smooth surface for consistent lines.
- Paper fiber content and type strictly specified to prevent fibers from pulling ink outside of trace.
- No watermarks on paper to interfere with pen writing.

Whether your application is drafting or business, HP has the solution you need. For your business graphics needs, try our:

- ***Glossy plotter paper*** for vivid, professional-looking graphics that will impress your clients and superiors.
- ***Transparency plotter film*** for high-quality projected graphics. HP's quick-drying film lets you go directly from the plotter to the projector.
- ***Non-glossy plotter paper*** that's ideal for your everyday graphics needs.

For your drafting applications, try our:

- ***Polyester film*** for your final-quality, diazo-reproducible, and permanent storage needs.
- ***Vellum*** for your final-quality, diazo-reproducible needs.
- ***Tracing bond*** for your preliminary drawing, and diazo-reproducible review copies.

Copier paper

HP paper

See the difference HP paper makes

The comparison photos at left were made using the American Optical System at 18.75 magnification. The plots were made on a 7470A Plotter at 20 cm/s with a .3mm blue pen. Notice how the HP paper's smooth surface enhances line definition, and minimizes skipping, bleeding, and feathering.

Choose the best combination of supplies for your plotter and application

Use the handy guides below to select the type of pen and paper you need, then see the following pages for ordering information. Remember, exceptional plots are the combined result of an excellent plotter and excellent supplies.

Media and pen compatibility

Use the guide below to select the right type of plotter pen for your application.

Media type	Fiber-tip pens: Paper	Fiber-tip pens: Transparency	Drafting pens: Refillable	Drafting pens: Disposable	Rollerball pens
Non-glossy paper	•			•	•
Transparency film		•			
Glossy paper	•	•			
Tracing bond					•
Vellum			•	•	
Polyester film			•	•	

See our low-cost plotters, pages 26—27.

Media sizes

Look for these media size codes on the following pages. Each code corresponds to media dimensions listed below.

ANSI	Dimensions	A	B	C	D	E
	inches	8.5 × 11	11 × 17	17 × 22	22 × 34	34 × 44
	millimeters	216 × 279	279 × 432	432 × 559	559 × 864	864 × 1118
ISO	Dimensions	A4	A3	A2	A1	A0
	inches	8.27 × 11.69	11.69 × 16.54	16.54 × 23.39	23.39 × 33.11	33.11 × 46.81
	millimeters	210 × 297	297 × 420	420 × 594	594 × 841	841 × 1189

Media and plotter compatibility

Use the guide below to identify the media types and sizes supported by your plotter.

Plotter model number	Non-glossy plotter paper size							Vellum size						Polyester film size						Tracing bond size		Transparency plotter film size	
ANSI	A	B	C	D	E	11" roll	24" × 36" roll	A	B	C	D	E	24" × 36" roll	A	B	C	D	E	24" × 36" roll	D	E	A	
ISO	A4	A3	A2	A1	A0	297 mm roll		A4	A3	A2	A1	A0		A4	A3	A2	A1	A0		A1	A0	A4	
7090A	•	•																				•	
7220A/C, 7221A/B/C	•	•						•	•					•	•							•	
7220S/T, 7221S/T	•	•				•		•	•					•	•							•	
7225A/B, ColorPro, 7470A	•																					•	
7475A	•	•												•	•							•	
7550A	•	•						•	•					•	•							•	
DraftPro			•	•						•	•					•	•						
DraftMaster I *new!*	•	•	•	•	•			•	•	•	•	•		•	•	•	•	•		•	•	•	
DraftMaster II *new!*	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
7580A/B	•	•	•	•				•	•	•	•			•	•	•	•			•			
7585A/B	•	•	•	•	•			•	•	•	•	•		•	•	•	•	•		•	•		
7586B	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
9872A/B/C	•	•						•	•					•	•							•	
9872S/T	•	•				•		•	•					•	•							•	

It's easy to order: 800-538-8787

When impressive business graphics are in demand . . .

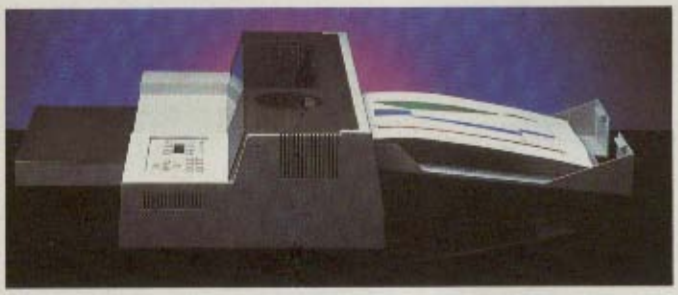
Glossy plotter paper

Impress your clients and your boss at your next meeting with reports and handouts containing high-quality crisp graphics. HP's heavy-weight, gloss-finish plotter paper provides the capability for producing professional looking reports. Use with HP paper pens to produce lighter shades of color and with transparency pens to produce darker shades. Use glossy plotter paper for bar code paper applications.

Media size*	Part no.	Qty./pkg.	Price/pkg.
A	17900G	100 sheets	$16.00 ea.
A4	17901G	100 sheets	16.00 ea.
B	17902G	100 sheets	28.00 ea.
A3	17903G	100 sheets	28.00 ea.

Non-glossy plotter paper

HP's strict specifications require this paper to be an opaque medium with the correct mixture of wood pulp and rag fibers. This provides the correct smoothness for clear line definition and minimizes skipping, bleeding and feathering. Use with HP paper pens, rollerball pens and disposable drafting pens.



For automatic sheet-feed plotting, see the HP 7550A media catcher tray on page 37.

Media size*	Part no.	Qty./pkg.	Price/pkg.
A	17800P	50 sheets	1–4 pkgs . . . . . $5.50 ea. 5+ . . . . . 4.95 ea.
	17801P	250 sheets	$13.00 ea.
A4	17802P	50 sheets	1–4 pkgs . . . . . $5.50 ea. 5+ . . . . . 4.95 ea.
	17803P	250 sheets	$13.00 ea.
B	17804P	50 sheets	$10.00 ea.
	17805P	250 sheets	$26.00 ea.
A3	17806P	50 sheets	$10.00 ea.
	17807P	250 sheets	$26.00 ea.
C	9280-0728	250 sheets	Reduced price! $41.00 ea.
A2	9280-0734	250 sheets	$41.00 ea.
D	9280-0527	200 sheets	Reduced price! $60.00 ea.
A1	9280-0528	200 sheets	$60.00 ea.
E	9280-0587	150 sheets	Reduced price! $85.00 ea.
A0	9280-0590	150 sheets	$85.00 ea.

Blank roll paper

For use on HP's 7220, 7221, and 9872 S and T models only.

HP's blank roll paper has been designed and tested to provide optimum performance when used with HP's fiber-tip paper pens.

Size*	Part no.	Qty./pkg.	Price/pkg.
English 11 in. × 200 ft.	9280-0618	1 roll	1–5 rolls . . . . . $22.00 ea. 6+ . . . . . $17.00 ea.
Metric 297mm × 61m	9280-0619	1 roll	1–5 rolls . . . . . $22.00 ea. 6+ . . . . . $17.00 ea.

This paper has been designed and tested for DraftMaster II and the 7586B. The end of each roll has been specially attached to the paper core to ensure easy release of the last page during plotting and to prevent paper unwinding from the core.

Size*	Part no.	Qty./pkg.	Price/pkg.
24 in. × 150 ft.	9280-0638	1 roll	Reduced price! $26.00 ea.
36 in. × 150 ft.	9280-0637	1 roll	$36.00 ea.

Transparency plotter film

Make your presentations stand out from the rest with HP's eye-catching colors and transparency film. Our fast-drying film lets ink dry quickly, minimizing bleeding and smearing. Use with HP transparency plotter pens.

Plotter	Media size*	Qty./pkg.	Part no.	Price
ColorPro (7440), 7470	A	50 sheets	17700T	(1–9 pkgs) . . . $50.00 ea. (10–) . . . . . 45.00 ea.
	A4	50 sheets	17701T	(1–9 pkgs) . . . $50.00 ea. (10–) . . . . . 45.00 ea.
7475, 7550, DraftMaster, 7090, 7220, 7221, 7225, and 9872	A	50 sheets	17702T	(1–9 pkgs) . . . $50.00 ea. (10+) . . . . . 45.00 ea.
	A4	50 sheets	17703T	(1–9 pkgs) . . . $50.00 ea. (10+) . . . . . 45.00 ea.

*See media size guide on page 29 for further information.

HP plotting media gives you assurance you can trust!

Tracing bond

This lightweight tracing bond performs at its best when used with rollerball pens.

Tracing bond is an uncoated, untreated and economical alternative to vellum. Use it when you need:

- Fast plotting capability of rollerballs (60 cm/sec)
- Consistent line width
- Diazo-reproducible plots
- Low abrasion media
- Check plots and preliminary drawings, not for high-quality final plots.

Media size*	Part no.	Qty./pkg.	Price/pkg.
D	9280-0600	150 sheets	$100.00 ea.
A1	9280-0599	150 sheets	$100.00 ea.
E	9280-0598	150 sheets	$190.00 ea.
A0	9280-0597	150 sheets	$190.00 ea.

Vellum

This 100% rag vellum provides optimum performance with refillable and disposable drafting-style pens.

HP vellum has a surface coating for increased smoothness and ink receptivity. It is also treated to add strength and transparency. Use this vellum when you need:

- Relatively permanent documents
- Less expensive media than polyester film
- Diazo reproducible media

Media size*	Part no.	Qty./pkg.	Price/pkg.
A	9280-0601	150 sheets	$17.00 ea.
A4	9280-0603	150 sheets	$17.00 ea.
B	9280-0602	150 sheets	$30.00 ea.
A3	9280-0604	150 sheets	$30.00 ea.
C	9280-0731	250 sheets	$85.00 ea.
A2	9280-0733	250 sheets	$85.00 ea.
D	9280-0529	150 sheets	$130.00 ea.
A1	9280-0530	150 sheets	$130.00 ea.
E	9280-0593	150 sheets	$200.00 ea.
A0	9280-0594	150 sheets	$200.00 ea.
24 in. × 150 ft.	9280-0635	1 roll	$57.00 ea.
36 in. × 150 ft.	9280-0636	1 roll	$75.00 ea.

Polyester film

HP's double-matte, 3-mil film was specifically chosen to provide optimum performance when used with HP's refillable and disposable drafting pens.

This finely coated, translucent media minimizes pen and machine wear and maximizes line quality. Use this film when you need:

- Dimensionally stable media
- Close tolerance, high accuracy plots
- Camera-ready art
- Master copies which will be handled repeatedly
- Media that will not tear, crack, peel or fade under normal use
- Clear and sharp quality reproductions
- Plots with distinct continuous lines and virtually no beading, bleeding or feathering

Media size*	Part no.	Qty.pkg.	Price/pkg.
A	9280-0605	50 sheets	$20.00 ea.
A4	9280-0608	50 sheets	$20.00 ea.
B	9280-0607	50 sheets	$32.00 ea.
A3	9280-0606	50 sheets	$32.00 ea.
C	9280-0732	100 sheets	$110.00 ea.
A2	9280-0730	100 sheets	$110.00 ea.
D	9280-0526	50 sheets	$110.00 ea.
A1	9280-0525	50 sheets	$110.00 ea.
E	9280-0591	50 sheets	$220.00 ea.
A0	9280-0592	50 sheets	$220.00 ea.
24 in. × 150 ft.	9280-0634	1 roll	$130.00 ea.
36 in. × 150 ft.	9280-0633	1 roll	$182.00 ea.

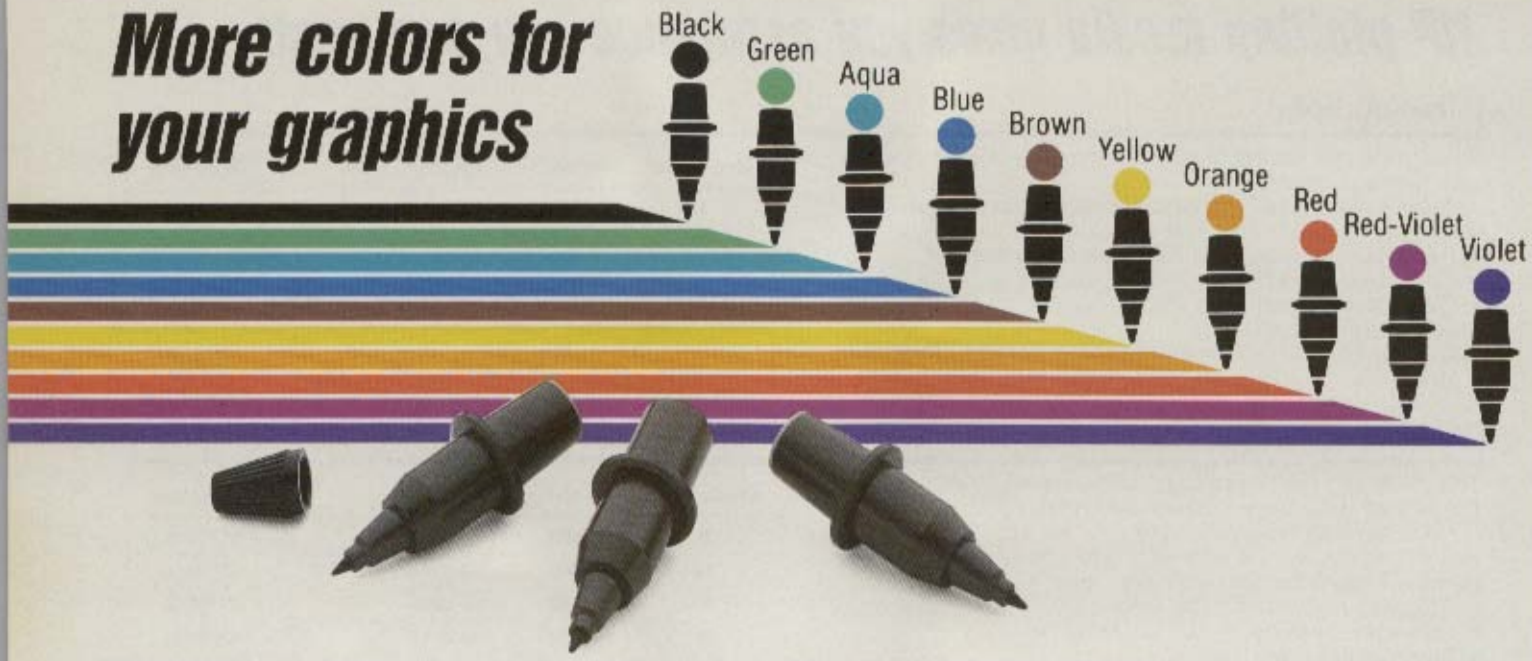
*See media sizes guide on page 29 for further information.

HELPFUL IDEAS!

Reduce static buildup on drafting film Statically charged film attracts dust particles which clog pen tips and cause ink blots. To reduce the problem, lower the pen speed, increase the humidity around the plotter, use a static-resistant film, or use vellum for your draft copies.

It's easy to order: 800-538-8787

More colors for your graphics



Ten attractive colors

Give your hardcopy graphics that extra professional edge with HP's family of matching paper and transparency pen colors. Carefully chosen to work together harmoniously, all 10 colors are available in both narrow and wide line widths.

Matching colors for paper and transparency pens

You can duplicate paper graphics on overhead transparencies, color for color.

High quality ink formulations for long pen life

HP's paper and transparency pens provide optimum density and color consistency, with maximum writing distance.

Customize orders with single color packs

Choose just the colors you want. Select from all ten colors in narrow-line width and four colors in wide-line width to order single-color packs of your own choice.

Total writing system

HP pens, media and plotters are designed to work together for optimum results. Use our compatibility guides to choose the best complement of supplies for your plotter and application.

International pen carousel symbols

Below you'll find HP's five pen types and their corresponding international pen symbols. A symbol appears on the top of pen carousels, so it's easy for you to make the right match.

Paper Transparency Rollerball Refillable Disposable

Pen and Plotter compatibility

Use the guide below to select the pens best suited to your plotter.

Plotter model no.	Fiber-tip pens		Disposable drafting pens	Refillable drafting pens		Rollerball pens
	Paper	Transparency	Long body	Short body	Long body	Long body
7090	•	•				
7220, 7221	•	•		•		
7225	•	•				
ColorPro (7440), 7470	•	•				
7475	•	•		•		
7550	•	•	•		•	•
DraftPro	•		•		•	
DraftMaster *new!*	•	•	•		•	•
7580, 7585, 7586	•		•		•	•
9872	•	•		•		
Other (7200, 7202, 7203, 7210, 9125, 9862)	•					

Steal the show with HP's dazzling pen colors

Make your next presentation shine with HP's family of matching paper and transparency pen colors. Choose from 10 beautiful, professional-looking colors—each guaranteed to give your graphics plenty of audience appeal.

Fiber-tip paper pens

For use with **7090, 7220, 7221, 7225, ColorPro (7440), 7470, 7475, 7550, DraftPro (7570), DraftMaster, 7580, 7585, 7586,** and **9872** Graphics Plotters.

Color selection

The fiber-tip paper pens at left and the fiber-tip transparency pens at right are both available in the colors shown below.

Fiber-tip transparency pens

For use with HP **7090, 7220, 7221, 7225, 7470, 7475, 7550, ColorPro (7440), DraftMaster** and **9872** Graphics Plotters.

(P3) Narrow line (0.3 mm) HP part no.	(P7) Wide line (0.7 mm) HP part no.	Single-color packages (5 pens/package)	(T3) Narrow line (0.3 mm) HP part no.	(T6) Wide line (0.6 mm) HP part no.
17825P	17826P	Black	17725T	17726T
17827P	17828P	Green	17727T	17728T
17829P	—	Aqua	17729T	—
17831P	17832P	Blue	17731T	17732T
17833P	—	Violet	17733T	—
17835P	—	Brown	17735T	—
17837P	—	Yellow	17737T	—
17839P	—	Orange	17739T	—
17841P	17842P	Red	17741T	17742T
17843P	—	Red-Violet	17743T	—

(P3) Narrow line (0.3 mm) HP part no.	(P7) Wide line (0.7 mm) HP part no.	Multi-color packages (1 pen in each color, 5 pens/package)	(T3) Narrow line (0.3 mm) HP part no.	(T6) Wide line (0.6 mm) HP part no.
17845P	17846P	Black, Blue, Red, Green, Yellow	17745T	17746T
17847P	17848P	Black, Blue, Aqua, Violet, Green	17747T	17748T
17849P	17850P	Brown, Yellow, Orange, Red, Red-Violet	17749T	17750T

Price breaks apply to purchase of single part numbers only
(1–4 pkgs) ..... $7.00 pkg
(5+) ..... 6.30 pkg

Price breaks apply to purchase of single part numbers only
(1–4 pkgs) ..... $7.00 pkg
(5+) ..... 6.30 pkg

Paper writing pens (older plotters)

For use with **7200–7203, 7210, 9125,** and **9862** plotters.

Single-color pen packages (5 pens/pkg.)

5081-1190 (Red) **5081-1192** (Green)
5081-1191 (Blue) **5081-1193** (Black)

(1–4 pkgs) ..... $6.50 pkg
(5+) ..... $5.85 pkg

Price breaks apply to purchase of single part numbers only.

HELPFUL IDEAS!

Make an impression with shades of color
Use HP's heavy-weight, gloss-finish plotter paper to create professional looking reports and handouts. Use with HP paper pens to produce lighter shades of color and with transparency pens to produce darker shades.

Order from your local HP dealer
Call 800-367-4772 for nearest location

HP drafting pens—the choice that makes the difference!

Choose from HP's selection of disposable, refillable and rollerball pens. The right pens make all the difference in output quality.

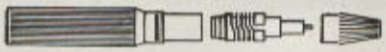
Long body drafting pen comparison guide

Use the guide below to select the long body drafting pen features best suited for your application.

Plotter	Drafting pen	Media: Paper	Media: Vellum	Media: Polyester Film	Recommended plotting speed	Available line widths	Pen cleaning required
7550/DraftPro	Disposable	•	•	•	20cm/sec.	4	No
758X*/DraftMaster	Disposable	•	•	•	30cm/sec.	4	No
7550/758X*/DraftPro	Refillable		•	•	15cm/sec.	6	Yes
DraftMaster	Refillable		•	•	new! 30cm/sec.	6	Yes

*Includes HP 7580A/B, HP 7585A/B, and HP 7586B Drafting Plotters

No cleaning, refilling, or mess with disposable pens!



Easy to use, convenient and saves time—HP's disposable liquid-ink drafting pens allow you to produce final-quality drawings on *polyester* film or vellum and preliminary-quality drawings on plotter paper. These pens are designed to be used on the HP 7550A, DraftPro, DraftMaster, 7580A/B, 7585A/B and 7586B plotters.

- No pen cleaning or refilling required.
- Excellent line quality.
- Faster throughput than conventional, refillable liquid-ink drafting pens—write at 30 cm/sec. on the HP DraftMaster and 758X plotters, and at 20 cm/sec. on the HP 7550A and DraftPro plotters.

Vellum/Paper disposable drafting pens

Use HP's disposable drafting pens on vellum to produce final-quality, copier- and diazo-reproducible drawings. Or, use them on plotter paper to produce preliminary-quality drawings. Choose black in four line widths (0.25mm, 0.35mm, 0.50mm, 0.70mm). Or, choose from seven other colors (red, blue, green, violet, yellow, orange, brown) in two line widths (0.35mm and 0.70mm). *Note: These pens are not designed for area-fill applications, or for use on polyester film.*

V.35 Fine line (Point size 0.35 mm†) part no.	Single-color packages (4 pens/pkg)* *Reusable adapters (5061-7578) are required for operation.	V.70 Broad line (Point size 0.70 mm†) part no.
5061-7562	Black	5061-7572
5061-7563	Blue	5061-7573
5061-7564	Green	5061-7574
5061-7565	Red	5061-7575
5061-7605	Orange	5061-7615
5061-7606	Violet	5061-7616
5061-7607	Brown	5061-7617
5061-7608	Yellow	5061-7618

V.25 Extra fine line (Point size 0.25 mm†) part no.	Single-color packages (4 pens/pkg)* *Reusable adapters (5061-7578) are required for operation.	V.50 Medium line (Point size 0.50 mm†) part no.
5061-7619	Black	5061-7620

V.35 Fine line (Point size 0.35 mm†) part no.	Multi-color packages (4 pens/pkg, 1 of each color)* *Reusable adapters (5061-7578) are required for operation	V.70 Broad line (Point size 0.70 mm†) part no.
5061-7566	Black, Blue, Green, Red	5061-7576

(1 to 4 pkgs) ..... $22.00 ea.
(5+ pkgs) ..... 19.80 ea.

Price breaks apply to purchase of single part numbers only.

†Line width may vary depending on media, ink, and plotting speed.

Polyester film disposable drafting pens

Use HP's black disposable drafting pens on double-matte polyester film to produce final-quality, archivable, copier- and diazo-reproducible drawings. These black pens are available in four line widths: 0.25 mm, 0.35 mm, 0.50 mm, 0.70 mm. *Note: These pens are not designed for area-fill applications.*

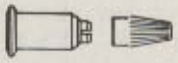
Single-color (black) packages
(4 pens/pkg)*
*Reusable adapters **(5061-7578)** are required for operation.

F.25	Extra fine line width	**5061-7610**	Point size, 0.25 mm†
F.35	Fine line width	**5061-7611**	Point size, 0.35 mm†
F.50	Medium line width	**5061-7612**	Point size, 0.50 mm†
F.70	Broad line width	**5061-7613**	Point size, 0.70 mm†

†Line width may vary depending on media, ink, and plotting speed.

(1–4 pkgs) ..... $44.00 ea.
(5+ pkgs) ..... 39.80 ea.
Price breaks apply to purchase of single part numbers only.

Adapter and pen cap assemblies for disposable and refillable drafting pens



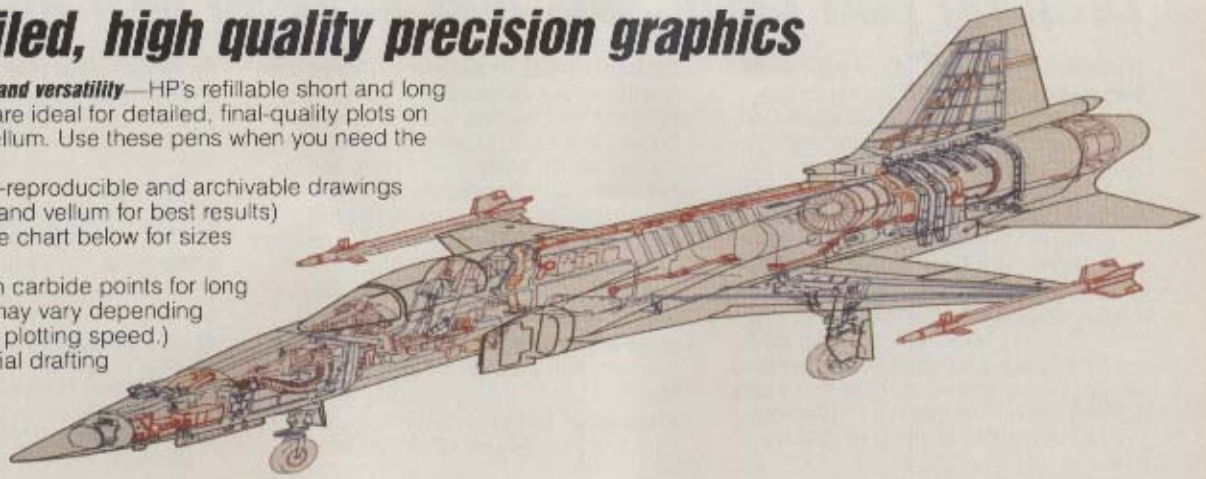
To ensure proper pen operation on your plotter, adapters must be screwed into your disposable and refillable liquid-ink drafting pens before the pens can be used in your plotter. Buy this package for replacement adapters or pen caps for your long body refillable drafting pens.

5061-7578 Package of 4 adapters and pen cap assemblies $8.00/pkg

Plot detailed, high quality precision graphics

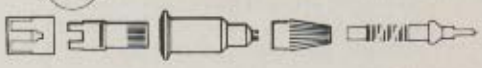
For precision drawings and versatility—HP's refillable short and long body drafting pens are ideal for detailed, final-quality plots on polyester film and vellum. Use these pens when you need the following features:

- Final-quality diazo-reproducible and archivable drawings (use on polyester and vellum for best results)
- Six line widths (see chart below for sizes available)
- Reusable tungsten carbide points for long wear (Line width may vary depending on media, ink and plotting speed.)
- Versatility for special drafting applications
- Plotting speed of 15 cm/sec. (30cm/sec. with DraftMaster).



Refillable drafting pens

Refillable drafting pens—short body

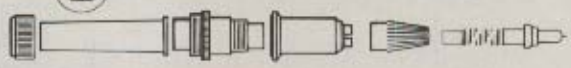


5061-8119 Drafting pen, short body. For use with HP **7220, 7221** and **9872** Plotters with plotter points listed at right. For **HP 7475** Plotter, use **9300-0957, 9300-0958, 9300-0959** only. Two pen bodies, adapters, caps per package.
Price ..... $18.00 pkg.

Plotter points (tungsten), use with short body drafting pen. Line width may vary depending on media, ink, and plotting speed. Fine-line point sizes .18 mm and .25 mm require more cleaning and care than wider point sizes and therefore are not recommended for general use.

Part no.	Point size	Price
9300-0955	.18 mm	$32.00 ea.
9300-0956	.25 mm	29.00 ea.
9300-0957	.35 mm	25.00 ea.
9300-0958	.50 mm	25.00 ea.
9300-0959	.70 mm	25.00 ea.
9300-0960	1.00 mm	25.00 ea.

Refillable drafting pens—long body



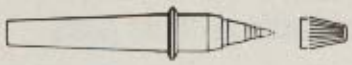
07580-60025 Drafting pen, long body. For use with your **HP 7550, DraftPro, DraftMaster, 7580, 7585,** and **7586** Graphics Plotters with plotter points listed at right. One pen body, adapter, cap per package.
Price ..... $10.50 pkg.

Plotter points (tungsten), use with long body drafting pen. Line width may vary depending on media, ink, and plotting speed. Fine line point sizes .18 mm and .25 mm require more cleaning and care than wider point sizes and therefore are not recommended for general use.

Part no.	Point size	Price
9260-0742	.18 mm	$32.00 ea.
9260-0741	.25 mm	29.00 ea.
9260-0588	.35 mm	25.00 ea.
9260-0744	.50 mm	25.00 ea.
9260-0579	.70 mm	25.00 ea.
9260-0743	1.00 mm	25.00 ea.

Order from your local HP dealer
Call 800-367-4772 for nearest location

Rollerball pens



Use these pens with your **HP 7550, DraftMaster, 7580, 7585,** and **7586** Plotters when you need the following features:

- fast plotting speed (60 cm/sec.)
- preliminary-drawings or check plot applications
- uniform line widths
- ease of use

We recommend you use these pens on:

- HP's blank plotter paper for single-copy needs.
- HP's tracing bond for diazo-reproducible check plots or preliminary quality drawings.

Single-color pen packages (4 pens/pkg) R.3 Narrow line width (.3mm)	Multi-color pen packages (4 pens/pkg) R.3 Narrow line width (.3mm)
HP Part no.	HP Part no.
5061-5034 (Red)	**5061-5037** (Red)
5061-5036 (Blue)	(Blue)
5061-5035 (Green)	(Green)
5061-5033 (Black)	(Black)

(1–4 pkgs) ..... $14.00 pkg.
(5+) ..... 13.00 pkg.

Price breaks apply to purchase of single part numbers only.

Drafting pen carousels and start-up pen kit

DraftMaster users, adjust one carousel for all your plotting applications! You no longer need a separate carousel for each pen type. Our new, fully adjustable eight-pen carousel can be used for all supported pen types: fibertip, rollerball, disposable drafting, and refillable drafting pens.

Just turn the barrel to the desired setting and your DraftMaster will automatically set pen speed and force accordingly. Note: Your setting must match up with the symbol that corresponds to your pen type, and you need to use the proper boots. Failure to make this setting adjustment and to use the appropriate boots can affect the line quality of your plot.

Includes one package of eight boots for fibertip and rollerball pen carousels, and one package of eight boots for disposable and refillable drafting pens.

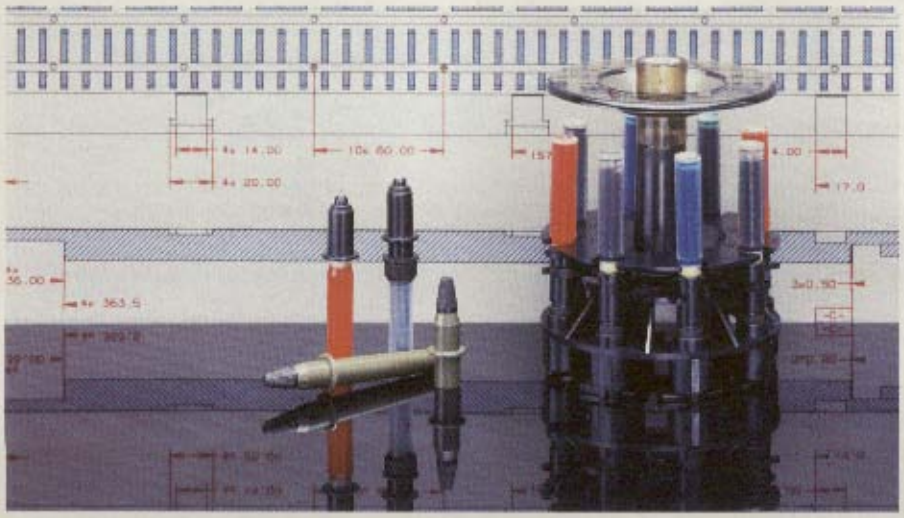
5062-1576 DraftMaster Adjustable Pen Carousel ..... $70.00 ea.

Set faster plotting speeds with disposable pens in refillable pen carousels. For your HP 758X*, 7550, and DraftPro Plotters, disposable drafting pens can be used in your refillable drafting pen carousels to get faster plotting speeds. To achieve faster speeds, use the plotter's front-panel controls or a program command to manually set the pen speed to 30 cm/sec. on the HP 758X* and 20 cm/sec. on the HP 7550 and HP DraftPro Plotters.

07550-60053 Refillable drafting pen carousel for use with HP 7550 Plotter** ..... $55.00 ea.

07580-60081 Refillable drafting pen carousel for use with HP 758X Plotters** ..... $70.00 ea.

07570-60055 Refillable drafting pen carousel for use with HP DraftPro Plotter ..... $60.00 ea.



Get plotting speed of 30 cm/sec. without programming. This disposable drafting pen carousel is designed to achieve a default speed of 30 cm/sec. and pen force 2 when used with your HP 7580B/7585B/7586B Plotters (serial prefix #2444 or higher). No programming or front-panel controls are necessary.

07580-60248 Optional drafting pen carousel for disposable drafting pens ..... $70.00 ea.

Get 30% savings on a start-up pen kit. Save on your disposable drafting pen supplies for HP 758X* Plotters (serial prefix #2444 or higher). Included in this startup kit are:

- Four 0.35 mm point size and four 0.70 mm point size disposable drafting pens (black, blue, green, and red).
- Four 0.35 mm point size black disposable drafting pens.
- Disposable drafting pen carousel for HP 758X* Plotters only.
- Eight adapters and caps.
- Instructions for pen care and use.

5061-7577 Start-up pen kit ... $120.00 ea.

Your HP 7475A can produce high quality drafting graphics. Match HP's short-body refillable drafting pens (see chart on previous page) with the 07475-60030 drafting pen carousel on your HP 7475A to get:

- Superior line quality for engineering diagrams and camera-ready art (for A/A4 and B/A3 sizes).
- Plotting on polyester film.
- Three line widths: 0.35mm, 0.50mm, 0.70mm.
- Support by the top-selling CAD software, including AutoCAD™, PCAD and VersaCAD.

07475-60030 Refillable short body drafting pen carousel ..... $40.00 ea.

*Includes HP 7580A/B, HP 7585A/B, and HP 7586B Drafting Plotters.

**The pen force must be set to 2 for your plotter to operate correctly.

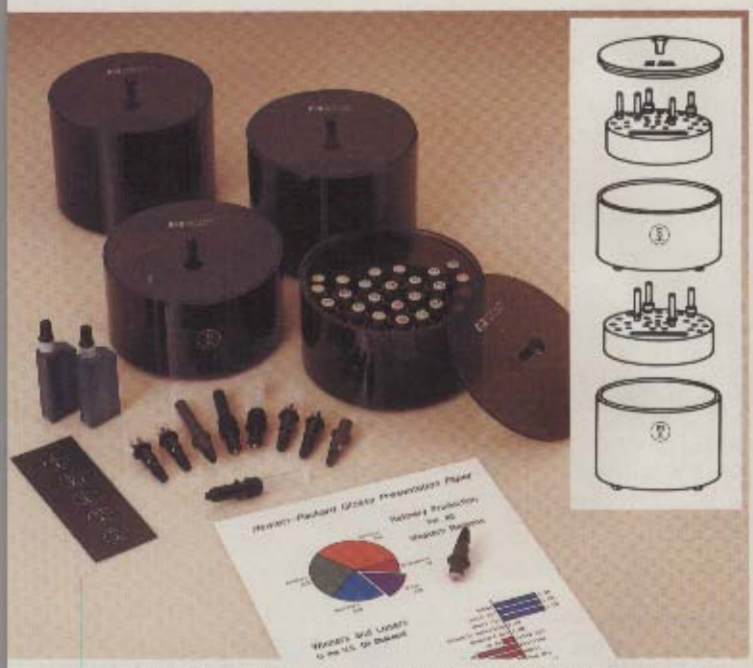
Spend your time plotting, not looking for pens!

Space-saving pen organizer for your desk

Our new personal pen organizer keeps your plotter pens organized and within easy reach. Made of acrylic, this organizer looks attractive on your desk and also fits conveniently in a desk drawer.

Up to 33 paper writing pens, overhead transparency pens or short-body drafting pens are stored vertically for easy identification. Take advantage of our quantity discounts and order a personal pen organizer for every plotter user in your office.

92177V Personal pen organizer (1–2) ..... $34.75 ea.
(3–9) ..... $31.75 ea.
(10+) ..... $29.50 ea.



HP's 6-inch diameter modular workstation organizer stores up to 30 plotter pens–60 when stacked!

Space-saving pen organizers for your graphics workstation

Now—an elegant, yet practical solution for plotter pen storage. Our 6-inch (15 cm) diameter modular pen organizer stores up to 30 pens—60 when stacked.

As you add pens—fiber-tip, drafting, or rollerball—the modular units can be stacked to save valuable desktop space. And custom labels, with HP's international pen symbols, allow you to quickly identify the contents.

We offer two sizes (for short and long plotter pens), which can be mixed and matched according to your needs.

Pens are stored vertically for easy reach and are held securely by high-density foam. Made of sturdy acrylic plastic, the pen organizers are an attractive addition to any office setting.

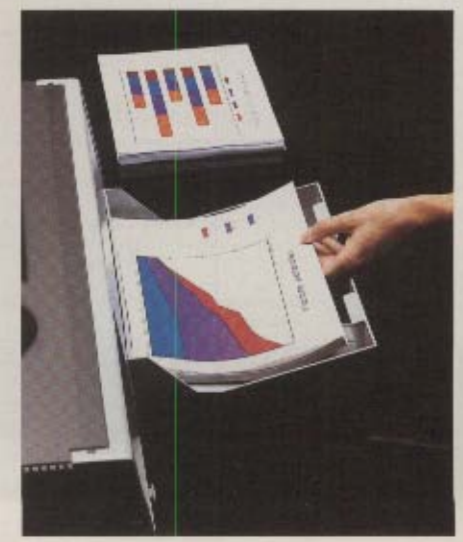
92177T Short organizer (1) ..... $43.75 ea.
(2–3) ..... 39.75 ea.
(4+) ..... 37.25 ea.

92177U Long organizer (1) ..... $46.75 ea.
(2–3) ..... 43.50 ea.
(4+) ..... 41.25 ea.

7550A Media handling accessories

For use with HP's 7550A Graphics Plotter–the automatic sheet feed plotter for unattended operation of cut paper sheets.

Description	HP part no.	Price
A-size media loading tray	07550-60152	$80.00
A4-size media loading tray	07550-60158	$80.00
B-size media handling kit B-size media loading tray B/A3 media catcher tray B-size plotter paper, 50 sheets	17525A	$160.00
A3-size media handling kit A3-size media loading tray A3/B media catcher tray A3-size plotter paper, 50 sheets	17526A	$160.00



HP's 7550A Media catcher tray for automatic sheet feed plotting.

It's easy to order: 800-538-8787

Are your supplies where you want, when you want them?

7475A graphics organizer features an easy-access drawer with convenient slots for carousels, paper, pens and other supplies. ColorPro users, see page 26. (Supplies shown in photo are not included.)

HP plotter users: Say goodbye to desktop plotter clutter with HP's Graphics Organizer.

Space-saving. Using your Graphics Organizer as a stand for your 7470A, 7475A, or ColorPro Plotter gives you convenient drawer space underneath, so plotter supplies stay out of sight until needed. Lined with a cushion of high-density foam, the easy-access drawer has specially sized compartments to separate and protect supplies.

Everything in place. The specially designed media compartment keeps your standard paper, glossy plotter paper, and transparency film ready for use. Additional compartments hold your pens and carousels. There's even room for odds and ends—pencils, paper clips, scratch pads, etc.

HP's Graphics Organizer is constructed of tough acrylic plastic, in translucent gray to complement your HP plotter.

92177X 7475A Graphics Organizer. Exterior dimensions: 3.75 in. (95 mm) H × 23.5 in. (597 mm) W × 14.75 in. (375 mm) D ..... $175.00 ea.

92177W ColorPro Graphics Organizer (also may be used with HP 7470A Plotter). Exterior dimensions: 3.75 in. (95 mm) H × 18.75 in (476 mm) W × 13.75 in. (349 mm) D .... $115.00 ea.

Save money with handy plotter supplies kits!

Our popular plotter supplies kits contain everything you need to prepare quality graphics on non-glossy paper or transparency film. And kits are more economical than purchasing each item individually.

Each kit includes information on proper care of pens and media, and an attractive, full-color booklet on principles of good graphics.

Paper and pen kit

Description	Media size*	HP part no.	Price
For use on all HP plotters. (with the exception of DraftPro).			
• 250 sheets of A- or A4-size non-glossy plotter paper	A	**17820PK**	$30.00
• 15 fiber-tip paper pens: 10 pens in 10 colors (0.3 mm); 5 black pens (0.7 mm)	A4	**17821PK**	30.00

Transparency film kits

Description	Media size*	HP part no.	Price
HP ColorPro (7440), 7470			
• 50 sheets of paper-backed A- or A4-size transparency film	A	**17715TK**	$70.00
• 15 fiber-tip transparency pens: 10 pens in 10 colors (0.3 mm); 5 black pens (0.6 mm)	A4	**17716TK**	70.00
HP 7475, 7550, DraftMaster, 7090, 7220, 7221, 7225 with velocity select, and 9872			
• 50 sheets of paper-backed A or A4 size transparency film	A	**17717TK**	$70.00
• 15 fiber-tip transparency pens: 10 pens in 10 colors (0.3 mm); 5 black pens (0.6 mm)	A4	**17718TK**	70.00

*See media size guide on page 29 for further information.

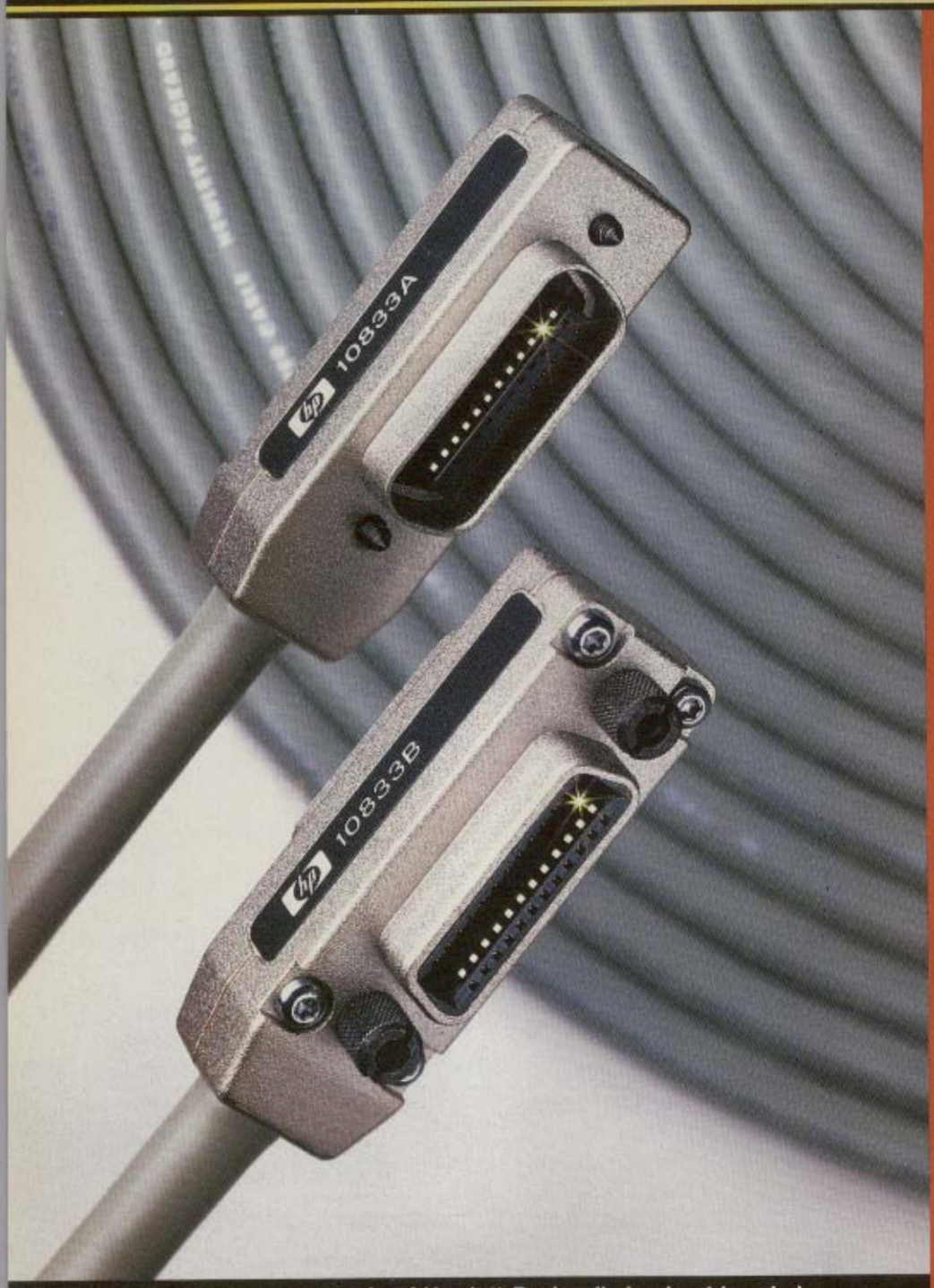
Enhance your graphics workstation with HP plotter accessories

Graphics accessories

Item	Plotter	Description	Part no.	Price
Carousels	7090	Fiber-tip pen carousel (paper and transparency)	5061-5080	$30.00 ea.
	ColorPro (7440)	Fiber-tip pen carousel (paper and transparency)	07440-60085	$24.00 ea.
	7475	Fiber-tip pen carousel (paper and transparency)	5061-5080	$40.00 ea.
		Refillable drafting pen carousel	07475-60030	40.00 ea.
	7550	Fiber-tip transparency pen carousel	07550-60050	$55.00 ea.
		Fiber-tip paper pen carousel	07550-60051	55.00 ea.
		Rollerball pen carousel	07550-60052	55.00 ea.
		Refillable/disposable drafting pen carousel	07550-60053	55.00 ea.
	DraftPro	Fiber-tip paper pen carousel	07570-60050	$60.00 ea.
		Refillable/disposable drafting pen carousel	07570-60055	60.00 ea.
	DraftMaster *new!*	Adjustable pen carousel	5062-1576	$70.00 ea.
	7580, 7585, 7586	Fiber-tip paper pen carousel	07580-60035	$70.00 ea.
		Refillable/disposable drafting pen carousel	07580-60081	70.00 ea.
		Rollerball pen carousel	07580-60082	70.00 ea.
		Disposable drafting pen carousel, see page 36	07580-60240	70.00 ea.
Adapters	7550, DraftPro, DraftMaster, 7580, 7585, 7586	Reusable adapter and pen cap assemblies (4 of each/pkg)	5061-7578	$ 8.00/pkg
Replacement boots	7475	Boots for refillable drafting pen carousels (6/pkg)	07475-60038	$ 8.75/pkg
	7220, 7221, 9872	Boots for short-body drafting pens (2/pkg)	9300-0967	$ 6.25/pkg
	7550, DraftMaster *new!*	Boots for fiber-tip and rollerball pen carousels (8/pkg)	5062-0098	$ 9.00/pkg
	new!	Boots for drafting pen carousels (8/pkg)	5062-0099	$ 9.00/pkg
	DraftPro, 7580, 7585, 7586	Boots for fiber-tip and rollerball pen carousels (8/pkg)	07580-60182	$ 9.00/pkg
		Boots for drafting pen carousels (8/pkg)	07580-60181	9.00/pkg
		Boots for fiber-tip pen carousels (8/pkg)	5062-0096	$ 9.00/pkg
		Boots for drafting pen carousels (8/pkg)	5062-0097	9.00/pkg
Digitizing sights	For use with all HP plotters (with the exception of ColorPro),	Straight sight	09872-60066	$50.00 ea.
	DraftPro, 7580, 7585, 7586	Angled view sight	07585-60191	80.00 ea.
Cleaning supplies	7475, 7550, DraftPro, DraftMaster, 7580, 7585, 7586	Gritwheel brush	5062-1515	$ 6.00 ea.
	For use with refillable drafting pens	Cleaning syringe	9282-0905	$12.00 ea.
		Cleaning solution	9282-0908	6.50 ea.
Drafting ink	7475, 7550, DraftPro, DraftMaster, 7580, 7585, 7586	.75-oz. bottle, black	9260-0596	$ 2.50 ea.
Media Cutter	DraftMaster *new!*	Media cutter for roll paper (5/box)	07596-60008	$10.50/box
Overlays	17623A Graphics tablet	Overlay	4114-1033	$ 8.00 ea.
	9111A/T Graphics tablet	Overlays (3/pkg)	7121-0968	$39.00/pkg
	9874 Digitizer	Individual blank key overlay (minimum order of 5)	7120-7105	$ 1.70 ea.
		Package of 5 hold-down sheets	09874-87000	21.00/pkg
		Hold-down magnet	09874-67924	11.00/pkg
Take-up cores	7586, DraftMaster II	24-in. (609.6 mm)	9300-1068	$ 2.00 ea.
		36-in. (914.4 mm)	9300-1069	3.00 ea.
Styli	17623A, 9111A/T	Stylus refills (2 inkless, 3 ink cartridges)	09111-68701	$ 9.50 ea.
	9874	Ink cartridge for stylus	Use Papermate standard ball point refill (Papermate part no. 46301, black ink, fine line) or equivalent.	
Print heads	7240, 7245	Thermal print head	07245-60001	$82.50 ea.

See pages 94–95 for dust covers and carrying cases.

CABLES



HP-IB cables...an example of Hewlett-Packard's leadership role in developing the world instrumentation interface standard. HP DIRECT offers an extensive range of cables for applications of all types. Check our cable charts in this section—they make ordering easy.

Local area networks 41
Cable accessories 42, 47
Do-it-yourself cabling 46
Gender converters & extenders 48
Extension cables 49
PC cables 49
Printer cables 51
Plotter cables 54
Terminal cables 55

HP LANs–
superior performance for high-speed data communications

If your company is like most, local area networks are fast becoming a key part of your plan for productivity in information management. In simple terms, a LAN is a way of connecting multiple systems together in a limited geographic area.

LANs offer significant advantages over the direct connection of systems:

- Flexible topology–a well-designed LAN can accommodate movement and expansion as your organization changes.
- Efficient resource use–sharing of computers, peripherals and software saves expenses.
- Efficient wiring–connecting each computer to one main LAN backbone cable requires less cabling effort and space.

HP AdvanceNet: connecting your HP computers to the rest of the world.

HP AdvanceNet: networking solutions for today and tomorrow.

HP AdvanceNet is Hewlett-Packard's strategy and architecture for data communications and information management.

HP's line of products provides HP computers with a flexible, high-performance, and reliable local communication link to an industry standard IEEE 802.3 local area network. The LAN itself is based on two cabling schemes.

Workstation to workstation

ThinLAN cabling is a low-cost, easy-to-install cable ideally suited for connecting workstations in a group or department together. In the office, HP and IBM personal computers connected directly to ThinLAN cabling can share files and peripherals, as well as connect to HP 3000s, as part of an HP OfficeShare network.

In the engineering environment, HP 9000 Unix based workstations can connect to the ThinLAN in order to pass large engineering design files between members of the same design group or to a completely different group such as manufacturing.

The Shared Resource Management system, which is the primary network for HP 9000 BASIC and PASCAL based systems, uses the same ThinLAN cables but utilizes an HP proprietary network protocol. SRM networks cannot be directly connected to an 802.3 network.

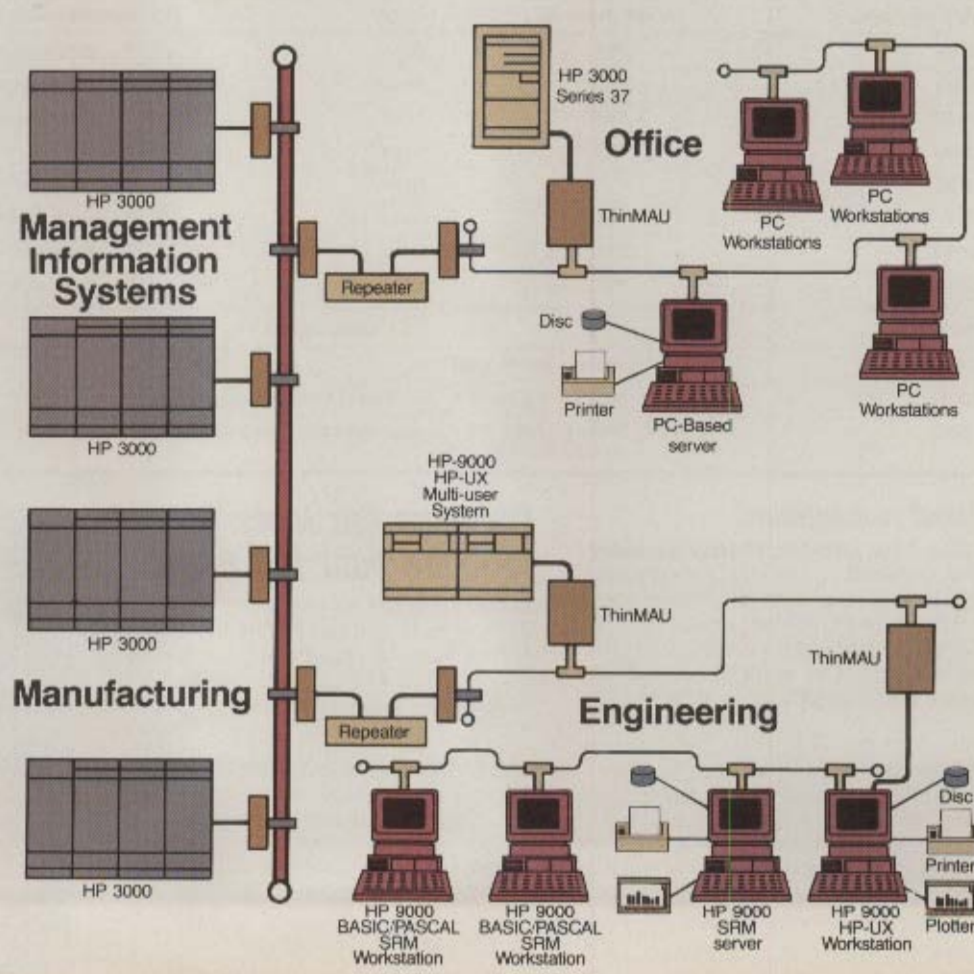
Office to office

A thick backbone cable is used to connect multiple ThinLANs together or to connect nodes that are farther than 185 meters apart (maximum ThinLAN segment length). Once the various groups have been integrated into one local area network, every node will be able to directly communicate with every other node on the network via a single connection to the network. The integrated network can support up to 1024 nodes (100 nodes per 500m segment of backbone cabling or 30 nodes per 185m of ThinLAN cabling).

On the following pages, you will find the necessary cable, connectors, tools, and manuals to implement the physical network. **For the latest software, interface controllers, and especially for planning information, please consult your local HP representative.**

LANs at a glance

Reference books	page 42
Attachment Unit Interface (AUI) cables	page 43
Medium Attachment Unit (MAU)	page 43
ThinLAN cables	page 44
ThinMAU	page 44
Tool kits	pages 42–44
LAN/3000-Backbone	pages 42–43
SRM Coax Network	page 45



It's easy to order: 800-538-8787

Information please . . .

Guides to understanding & implementing LANs

Making the LAN Connection. A local area network primer covering the basic concepts of LANs and giving some specific information on HP's implementation of the LAN.

5957-4624 ..... $6.00 ea.

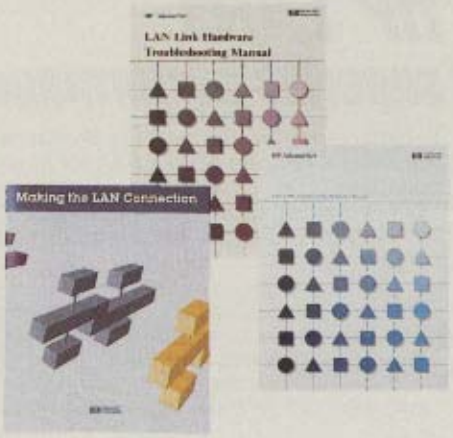
LAN Link Hardware Troubleshooting Manual. Outlines an approach to troubleshoot coax cable LAN's containing HP 1000, 3000, and 9000 systems. Provides information for isolating hardware faults on an HP IEEE 802.3 LAN, diagnostic testing between dissimilar systems, and discrete electrical test to check LAN hardware. Decision tree flowcharts isolate faults to speed up the repair process. This manual is a MUST for supporting your network.

5955-7681 ..... $100.00 ea.

Easy-to-follow installation guide

LAN Cable and Accessories Installation Manual. Provides the information necessary to install LAN cable, AUI cables, MAUs, and repeaters.

5955-7680 ..... $45.00 ea.



Send, receive data over longer distances with HP's "thick" coaxial cable

Thick backbone coax cable

Thick backbone cables are available with an outer layer of PVC or FEP (Teflon®). Local building codes and placement of the cable determine whether PVC may be used or FEP is required.

This is the standard or thick coaxial cable with a 0.4-inch diameter. It was specifically designed to meet the strict IEEE 802.3 standard and also meets Ethernet specifications.

Standard lengths are provided to avoid excessive signal reflection and distortion.

Each kit contains: two N-connectors; one terminator; one grounded terminator; one terminal insulator; one ground lug; two ⅜-inch nuts; one barrel connector (female to female); and one barrel insulator. The 500m kits provide additional N-connectors (total of 10) and additional barrels with insulators (total of four each). This allows you to segment the cable for easier fault isolation. Extra connectors, barrels and terminators are available below.

Cable kit number	Jacket material	Length	Connectored/unconnectored	Price
92253A	FEP	23.4m	unconnectored	$ 400.00 ea.
92253B	FEP	23.4m	connectored	$ 425.00 ea.
92253C	FEP	117m	unconnectored	$1500.00 ea.
92253D	FEP	500m	unconnectored	$6000.00 ea.
92253E	PVC	23.4m	unconnectored	$ 200.00 ea.
92253F	PVC	23.4m	connectored	$ 225.00 ea.
92253G	PVC	117m	unconnectored	$ 500.00 ea.
92253H	PVC	500m	unconnectored	$2100.00 ea.

Product no.	Description	Price
92253J	Package of 4 N-connectors	$60.00 ea.
92253K	Package of 2 barrel connectors and 2 barrel insulators.	$65.00 ea.
92253L	Package of one non-grounded terminator, one grounded terminator, and one terminal insulator.	$60.00 ea.

Protect your network

92256E Surge protector for thick backbone cable segments. Does your network plan include segments with different grounds or systems with different power sources? Use the 92256E surge protector to isolate those portions and protect against surges due to lightning or other outside sources.

The 92256E surge protector connects into the coaxial cable by means of N-connectors in the same manner as the barrel connector. A threaded stud is provided for connecting the eight-gauge ground wire. A two-hole mounting plate allows attachment to wall surface.

Price ..... $90.00 ea.

We have the tools to make your job easier

92229B Crimp tool for backbone coax and AUI cable. Shield ferrel crimping tool for N-connector on backbone coax and D-connector on AUI cable. Requires die in 92256A for N-connector.

Price ..... $199.00 ea.

92256A LAN coaxial cable installation tool kit for installing N-connectors on thick backbone coaxial cable. Includes:

- Coaxial cable stripper.
- Hex crimp die, requires use of 92229B crimping tool (order separately).

Price ..... $185.00 ea.

Attachment Unit Interface (AUI) cable

The Attachment Unit Interface or AUI cable interconnects the 30241A MAU and the host system, such as an HP 3000. It may be up to 48 meters in length. This cable meets strict IEEE 802.3 specifications.

AUI cable is available with jacket material of PVC or FEP (Teflon*). Local building codes and placement of the cable determine whether PVC may be used or FEP is required. Not for use with the ThinMAU (28641A).

Connectored AUI cable*	Jacket material	Length	Price
92254A	FEP	6m	$135.00 ea.
92254B	FEP	12m	200.00 ea.
92254C	FEP	24m	345.00 ea.
92254D	FEP	48m	635.00 ea.
92254E	PVC	6m	85.00 ea.
92254F	PVC	12m	110.00 ea.
92254G	PVC	24m	160.00 ea.
92254H	PVC	48m	250.00 ea.

*Each cable is packaged with six wallplate labels with protective tape.

Cut-to-length AUI cable	Jacket material	Min. order	Max. continuous length	Price
92255A	FEP	15m	500m	$13.00/m
92255B	PVC	15m	500m	4.50/m

92255C AUI cable connector kit. Provides all parts needed for one male and one female D-connector, plus six labels with protective tape.
Price ..... $47.00 ea.

92256D AUI wallplate kit. Complete kit for a pair of wallplates for AUI cable. Requires AUI connectors. Includes:
- Two wallplates with labels and protective tape.
- Two shield funnels.
- Two wallplate locking post assemblies.

Price ..... $33.00 ea.

92257B Loopback hood. Required for operation of node diagnostic for customer isolation of failures to thick backbone cable, AUI cable or MAU.
Price ..... $140.00 ea.

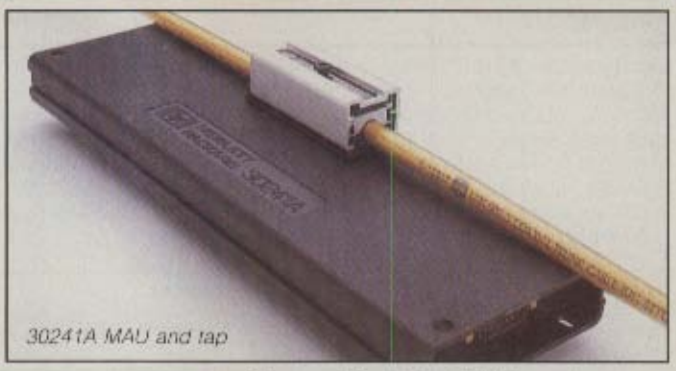
Need help installing your LAN?
Find the answer to your questions in our easy-to-follow installation guide on page 42. And be sure to see our handy reference books for a closer look at the "how and whys" of local area networking (also on page 42).

Medium Attachment Unit (MAU) and coaxial cable tap

The Medium Attachment Unit, or MAU, contains the electronics which send and receive data over the thick backbone cable and detect collisions. Its mechanical and electrical connection to the coaxial cable is provided by the tap, which may be installed without interrupting communications on the network.

When a MAU is disconnected from the coaxial cable, the tap should be left in place on the cable.

Product number	Description	
30241A	LAN Medium Attachment Unit and LAN coaxial cable tap.	$400.00 ea.
30241B	Additional LAN coaxial cable tap	$ 45.00 ea.



30241A MAU and tap

Network compatibility guide

Computer	Interface controller card	Backbone LAN connection	ThinLAN connection
HP 150	27208A	Not Directly Accessible	Direct to 27208A
HP Vectra PC, IBM® PC/XT/AT	27210A	Not Directly Accessible	Direct to 27210A
HP 9000, Series 200 & 300	98643A	Via 30241A	Via 28641A (Included in 98643A)
HP 9000, Series 500	27125B	Via 30241A	Via 28641A (Included in 27125B)
HP 3000 Series 37, 39, 4X, 6X	30242A	Via 30241A (Included in 30242A)	Via 28641A
	30240A	Via 30341A	Via 28641A (Included in 30240A)

For interface controller cards, please contact your local HP representative.

Convenient tool kit makes installation easy

92256C LAN MAU and tap installation tool kit for installing tap on coaxial cable and attaching to MAU. Includes:
- Coring tool.
- ⅛-inch Allen wrench.
- ½-inch hex nut driver.

Price ..... $39.00 ea.

It's easy to order: 800-538-8787

Low-cost, easy-to-install cable is ideal for office networking

Connectored ThinLAN cables

Ready-to-use ThinLAN cables have PVC jacket material and molded connector strain relief housings for durability. The gray color is attractive in any office environment. Terminators sold separately. See 92227P below.

Product no.	Length	Price
92227A	1 m	$ 25.00 ea.
92227B	2 m	$ 27.00 ea.
92227C	4 m	$ 29.00 ea.
92227D	8 m	$ 33.00 ea.
92227E	16 m	$ 39.00 ea.
92227F	32 m	$ 51.00 ea.
92227G	64 m	$ 76.00 ea.
92227H	128 m	$126.00 ea.

Cut-to-length ThinLAN cables

Cut-to-length ThinLAN cable is available for custom installations. Terminators and connectors should be ordered separately.

Product no.	Jacket material	Min. order	Max. continuous length	Price
92227J	PVC	300 m	3000 m	$ 0.78 per m

Crimp-on style BNC connectors for use with cut-to-length cable. Two to a package.
92227L ..... $22.50/pkg.

ThinLAN tool kit. Precision crimping tool and cable stripper for installing connectors on cable.
92227M ..... $450.00 ea.

ThinMAU

Similar to the 30241A MAU for interfacing to backbone cabling, the ThinMAU provides the ability to send and receive data over an IEEE type 10 base 2 ThinLAN coax cable segment. The ThinMAU supports connections to HP 9000 engineering workstations, both series 300 and 500, as well as HP 3000 computers. The ThinMAU includes an integrated, 1 meter Attachment Unit Interface cable** to connect the ThinMAU to the computer system, and a BNC Tee connector with insulating cover enabling the ThinMAU to attach to the ThinLAN cable. No tools required for installation.

Product no.	Description	Price
28641A	ThinMAU w/integrated 1m AUI cable and BNC Tee connector with insulating cover	$350.00 ea.

**Because the ThinLAN cable is very flexible, it easily can be routed directly to the ThinMAU. The integrated AUI cable cannot be extended beyond the given 1 meter length.

Spare parts for ThinLAN networks

92227N ThinLAN Tee connector with insulating cover ..... $27.50 ea.

92227P ThinLAN terminator pair (no ground wire connection) ..... $23.00 ea.

92227Q ThinLAN loopback (Tee connector, terminator pair, insulating cover, pre-assembled) ..... $45.00 ea.

92227R ThinLAN insulating cover for Tee connector. See photo above. ..... $19.50 ea.

For SRM coaxial links

45695A Terminator pair, one grounded, one non-grounded ..... $40.00 ea.

"Thank you for adding the Quality touch."

Just a note on HP's Direct-Order-Fast-Ship service. As a customer, it's working great. I became a customer of yours shortly after the first of the year. My orders have been for supplies to support the HP110 system that I use on the job, generally on a daily basis.

All orders have been will-calls, using the procedure outlined in the front of your catalog. The operators have always taken my orders in a friendly and courteous manner, and I appreciate the stock check at time of order. I have received the same professional service at the will-call counter. My order has always been ready at the specified time.

To date all items received have been in excellent condition and have performed well in their intended use.

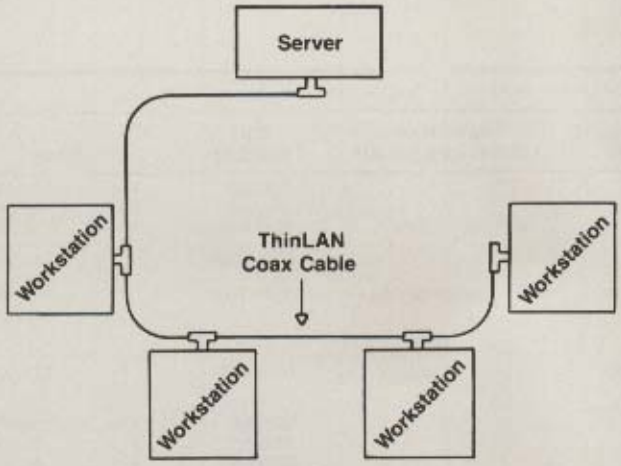
Sincerely,

David M. Retterer, Supervisor
Applied Materials
Santa Clara, California

Network alternatives for SRM users

The Shared Resource Management (SRM) system is a dedicated file and printer/plotter server for the HP 9000 engineering workstations. It provides the capability to share resources including printers, plotters, and discs among workstations in a local cluster. SRM combines the advantages of the distributed processing of personal workstations with the centralized resources of multi-user systems.

SRM Coax Network The network utilizes HP 92227x ThinLAN coax cable (page 44) and SRM coax interface cards (order through sales office) resulting in a bus configuration. Up to 25 nodes (servers and workstations) can be connected on a network that is up to 1000 meters total length of coax. All HP 9000 workstations are supported on the SRM coax network. However, non-SRM workstations cannot be supported on the same bus as an SRM network.



SRM Coax Link

HELPFUL IDEAS!

Cut-to-length cable ordering guide

HP offers unterminated cables and connector kits so you can custom fit your installation (see page 44 and 46). For your convenience, we've put together the guide below to help you step through the process of ordering cut-to-length cables.

1 Determine which cut-to-length cable you need for your installation. You will find cut-to-length cables listed on pages 44 and 46.

2 Order HP's cut-to-length cables *by the meter*. If you know the number of feet of cable required, use the formula below to convert feet to meters*. Your order should exceed our minimum order requirement for that cable:

(no. of feet) × (0.3048) = (no. of meters)

3 Determine the quantity of your order by rounding up the number of required meters to the nearest whole number. For example, if you require 119.5 meters of a particular cut-to-length cable, the quantity of your order will then be 120 meters.

4 Determine the price of your order by multiplying the number of meters of cable by the cost per meter (see the cable chart on pages 44 and 46).

(no. of meters) × (price per meter) = (price)

Be sure to take advantage of our quantity price breaks offered for many of the cut-to-length cables. Find out how much you SAVE with these price breaks listed in the cable charts.

*If you need to convert meters to feet, use the following formula: (no. of meters) × (3.2808) = (no. of feet).

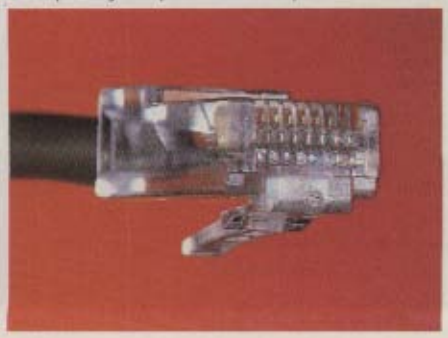
SRM Coax interface cards

SRM interface cards required:

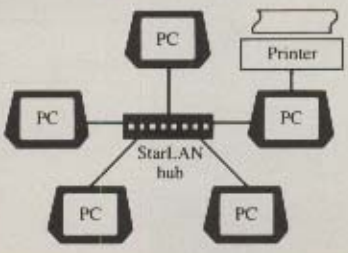
Computer	MuxLink	Coax link
HP Series 200 and 300	**98629A**	50961A Opt. 200
HP Series 500	**27123A**	50961A Opt. 500

HP StarLAN cable–low-cost and easy to install

HP now offers premeasured and connectored StarLAN cable to link your computer system to your StarLAN hub. Via a central StarLAN hub you can exchange data files, share data storage facilities, and pool your printers and plotters.



- HP StarLAN cable was designed to connect HP computer systems, IBM PCs and peripherals to your StarLAN hub.*
- HP StarLAN cable consists of four twisted pair cable with an 8-pin RJ 45 connector and installs as easily as telephone cable.
- HP StarLAN cable conforms to the Ethernet IEEE 802.3 1BASE5 standard.



Product no.	Length	Price
92268A	4 m (13.1 ft.)	(1–4) . . $16.00 ea. (5–8) . . 14.00 ea. (9+) . . 13.00 ea.
92268B	8 m (26.2 ft.)	(1–4) . . $19.00 ea. (5–8) . . 17.00 ea. (9+) . . 16.00 ea.

Product no.	Length	Price
92268C	16 m (52.5 ft.)	(1–4) . . $22.00 ea. (5–8) . . 20.00 ea. (9+) . . 19.00 ea.
92268D	32 m (105.0 ft.)	(1–4) . . $27.00 ea. (5–8) . . 25.00 ea. (9+) . . 24.00 ea.

***Not designed for Touchscreens (HP 150s).**

It's easy to order: 800-538-8787

Do-it-yourself cabling—as easy as 1-2-3

1. Choose the cabling system you need

Cable systems

Description	Connector kit	Raw cable
Universal 25-pin male RS232C	92178A/C†	92179A/B
Universal 25-pin female RS232C	92178B/C†	92179A/B
Edge connector for 264X Terminal	5061-1340	92179A/B
Multipoint connectors for 264X	5061-2401	92179A/B
For 262X Terminal (port 1) (except 2621B)	5061-2412	92179A/B
HP 3000 ATP (3-pin male RS232C)	92224A†	92179C
HP 3000 ATP (3-pin female RS232C)	92224B†	92179C
HP 3000 ATP (5-pin male RS422)	92225A†	92179D
HP 3000 ATP (5-pin female RS422)	92225B†	92179D
For HP-IB extenders	92226A	92179G
For 3081 to 92922A or 40253A	5061-3858	92179H

†Requires 92229A crimp tool for assembly.

2. Select the appropriate connector kit

Connector kits

Each kit contains all parts necessary for a complete assembly. See examples top of next page.

Application	Connector Kit Description	Number of Connectors per Kit	Part Number	Price
RS232C	25-pin male RS232C 25-pin female RS232C 25-pin male & female RS232C	2 2 2 (1 male/1 female)	92178A† 92178B† 92178C†	1–4 . . . . $22.00 ea. 5–9 . . . . 20.00 ea. 10+ . . . . 18.00 ea.
264X Terminal	30-pin female edge connector	1	5061-1340	$14.00 ea.
Multipoint for 262X & 264X Terminals	14-pin male & female connectors	2 (1 male/1 female)	5061-2401	$14.00 ea.
262X Terminal	50-pin RS232C for port 1 (except 2621B)	1	5061-2412	$14.00 ea.
HP 3000 ATP	3-pin male RS232C ATP 3-pin female RS232C ATP 5-pin male RS422 ATP 5-pin female RS422 ATP	4 4 4 4	92224A† 92224B† 92225A† 92225B†	*1 Kit . . . . $50.00 ea. 2–3 . . . . 46.00 ea. 4–9 . . . . 44.00 ea. 10–49 . . . 42.00 ea. 50–99 . . . 40.00 ea. 100+ . . . 36.00 ea.
HP-IB Extender	BNC male (coaxial)	1	92226A	$ 5.00 ea.
3081 to 92922A or 40253A	9-pin male RS232C	1	5061-3858	$75.00 ea.

†Requires 92229A crimp tool for assembly.

3. Determine the length of raw cable you need

Cut-to-length cables

Please specify lengths in meters.** Refer to the "cut-to-length cable ordering guide" on page 45 for details.

Shielded	Unshielded	No. of wires	Gauge	Part no.	Min. order	Max. continuous length*	Price per meter**
	X	12	22	92179A	10 m	400 m	10–19 m . . . $2.70/m 20–99 m . . . 2.35/m 100+ 2.10/m
	X	25	26	92179B	10 m	400 m	10–19 m . . . $4.10/m 20–99 m . . . 3.65/m 100+ 3.25/m
X		3	24	92179C	30 m	300 m	30–99 m . . . $1.20/m 100+ 85/m
X		5	24	92179D	30 m	300 m	30–99 m . . . $1.50/m 100+ 1.13/m
X		1 (coaxial)	18	92179G	100 m	1000 m	$0.79/m
	X	4	20/22	92179H	50 m	1000 m	$1.00/m

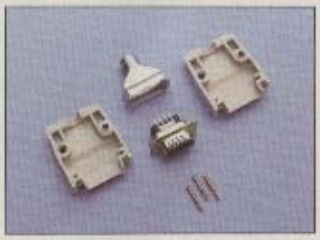
*Longer continuous lengths are available on special order. Delivery time may be increased.
**Price per foot is roughly one-third the price per meter.

Our connector kits make custom cabling simple

To order, follow steps 1-2-3 on the opposite page

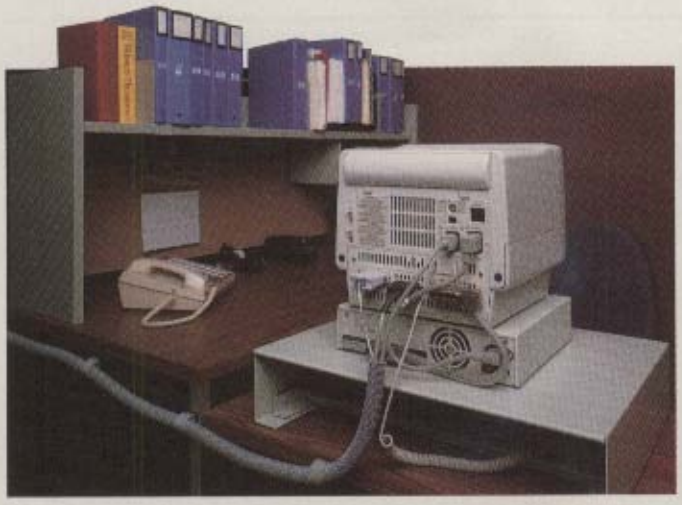
92178C 25-pin RS232C connector kit. *Kit includes male and female RS232 preassembled 25-pin connectors, strain relief rubber bushings, plastic housings and all necessary hardware. Requires special crimp tool 92229A for assembly.*
Price ..... $22.00 ea.

92226A HP-IB Extender connector kit. *Kit includes BNC connector, conductor, "wrench crimp" nut, and instructions. No special tools required for assembly.*
Price ..... $5.00 ea.



92224A HP 3000 ATP connector kit. *Kit includes plastic housing, R.F. cans, pins, connector blocks, all necessary hardware and instructions. Requires special crimp tool 92229A for assembly.*
Price ..... $50.00 ea.

92229A Crimp tool for ATP connectors. *This precision-machined hand crimp tool is needed to crimp the RF shield included in 92178A/B/C, 92224A/B and 92225A/B connector kits to the cable shield. Safety release located inside handle.*
Price ..... $290.00 ea.



Cable management kit keeps cables out of sight–out of mind

Tired of tangled cables? Worried about expensive equipment accidentally being pulled to the floor? Frustrated when cables invade your workspace? Then tame your cables with HP's Cable Management Kit.

Each kit contains a 6-foot (1.8 m) flexible plastic tube, which is slit to provide convenient cable entrance and exit. Also included are five snap-together straps that can be used to attach the tube to any clean, nonporous surface. Velcro-like squares allow the straps to be mounted on a wall, desk, under a bookcase or other convenient location.

The tube is 1 inch in diameter so that several cables can be routed together; if data transmission problems occur, remove the power cord(s) and route separately.

92199F ..... $18.00 ea.

Protect your people and your equipment

Use these handy cable covers to eliminate costly accidents. These covers are made of long-lasting, flexible vinyl and come complete with double-faced adhesive tape for quick installation.

The 15-foot (4.8m) lengths can be trimmed to size with a sharp knife or butted for longer lengths. Beige or brown colors will match your office decor. The pre-slit channel accepts a cable up to .44 in. (7/16 in.) (11mm) diameter.

92199C Beige, 15-foot (4.8m) roll
92199D Brown, 15-foot (4.8m) roll
(1–4) ..... $32.00 ea.
(5–9) ..... 30.00 ea.
(10+) ..... 28.00 ea.

Note: HP does not recommend placing a power cord and a data communications cable in the same channel.

Power cords

Part no.	8120-1348 Black $7.50 8120-1378 Gray $7.75	8120-1351*	8120-1369*	8120-1689*	8120-2104*
Plug					
Voltage rating	125V	250V	250V	250V	250V

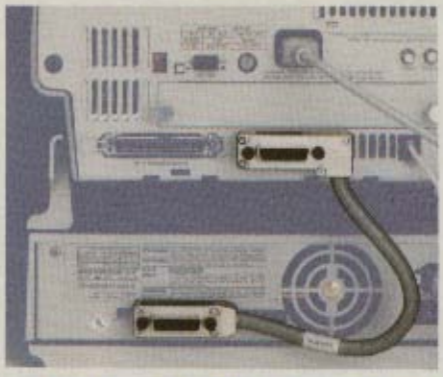
*Order from HP sales office.

Need another HP-IB cable? Call us direct for fast, easy ordering.

DESIGNED FOR HP-IB SYSTEMS

HP-IB/IEEE-488 cables can be used to connect two devices (e.g. a personal computer and a disc drive) or can be "daisy-chained" to connect several devices (e.g. printer, plotter, etc.). First, make sure the device uses an HP-IB interface. Then check that the total length (in meters) of all the HP-IB cables is no greater than twice the number of devices being connected, up to an absolute maximum of 20 meters.

Because HP-IB cables have a large bending radius, right-angle cables are extra convenient wherever HP-IB devices are stacked. Now, new 1-meter and 2-meter lengths are available with right-angle connectors.



Straight-angle HP-IB cables

Order number	10833D	10833A	10833B	10833C
Length	1.6 ft. (0.5 m)	3.3 ft. (1.0 m)	6.6 ft. (2.0 m)	13.2 ft. (4.0 m)
Price	$80.00 ea.	$80.00 ea.	$90.00 ea.	$100.00 ea.

Right-angle HP-IB cables

92220R	82977A*	82977B*
1.0 ft. (0.3 m)	3.3 ft. (1 m)	6.6 ft. (2 m)
$80.00 ea.	$100.00 ea.	$110.00 ea.

*Use with HP 9807A Integral PC.

The HP-IL cables you need are in stock–ready to go!

HP-IL cables

HP-IL

The Hewlett-Packard Interface Loop (HP-IL) is a bit-serial interface for low-cost, battery operated systems. Devices are connected by two-wire cables leading from the output port of one device to the input port of the next until all devices form a closed loop. Use with HP 41, Series 70, Series 80, The PORTABLE and The Portable PLUS.

HP-IL is not intended as a replacement for HP-IB, but rather as a low-cost, low-power alternative below HP-IB in price and performance.

For more HP-IL products, see page 103. Also see the book, *HP-IL System: An Introductory Guide to Hewlett-Packard Interface Loop*, page 119.

HP-IL cable no.	82167A	82167B	82167D
Length	1.65 ft. (.5 m)	3.3 ft. (1 m)	16.7 ft. (5 m)
Price	$6.00 ea.	$8.00 ea.	$10.00 ea.

Cables won't mate? Try the HP connection!

92224F/M Female and male gender converters are designed to provide convenience and therefore, productivity.

The male gender converter will allow two female cables to be connected. Conversely, a female gender converter will connect two male cables.

Shielding is 100 percent from metal connector to metal connector and both devices feature all 25 wires wired pin to pin.

92224F RS232C Female shielded gender converter ..... $25.00 ea.

92224M RS232C Male shielded gender converter ..... $25.00 ea.

HELPFUL IDEAS!

Extending your RS-232 cables

HP offers RS-232C extension cables that allow you to extend the distance between your computer and peripheral. To determine which extension cable will best fill your need, we offer the following suggestions:

1 Determine the gender you need to mate the extension cable to your present cable. For example, if you want to extend a male connector, order a female-to-male extension cable. If you want to extend a female connector, order a male-to-female extension cable. (A male connector has visible pins, while a female connector has recessed pins.)

2 Check your pin configuration. Extension cables that have pins 1–25 wired end-to-end will accommodate all of your cable extension needs.

3 Select the cable you need. Various configurations are offered in different lengths.

RS232C Extension cables

	Description	Connector Description	Length	Original system cable no.	Order cable no.	Price
Extension cables	Pins 1–25 wired end-to-end. Shielded.	25-pin Male RS232C = 25-pin Male RS232C	9.9 ft. (3 m)		17355M	$60.00 ea.
	Pins 1–25 wired end-to-end. Shielded.	25-pin Female RS232C = 25-pin Male RS232C	16.7 ft. (5 m)	(30062C)	31391A	$ 70.00 ea.
			33.4 ft. (10 m)		31391B	80.00 ea.
			50 ft. (15 m)	(30062C, Opt 001)	92215F	109.00 ea.
			100 ft. (30m)	(30062C, Opt 002)	92215T	$115.00 ea.
	Pins 1–8, 11, 12, 19, 20, 22, 23, 25 wired end-to-end. Shielded.	25-pin Male RS232C = 25-pin Male RS232C	12.5 ft. (3.8 m)		92219G	$65.00 ea.
	Hardwire extension; pins 2, 3, 7 wired end-to-end. Shielded.	25-pin Female RS232C = 25-pin Male RS232C	25 ft. (7.6 m)	(30062D)	30062-60018	$70.00 ea.
			50 ft. (15 m)		92215A	94.00 ea.
	Adapter cable between HP 3000 ATP and existing RS232C terminal cable.	25-pin Female RS232C = 3-pin Male ATP	16.7 ft. (5 m)	(30152A)	30152-60001	$180.00 ea.
	Extension cable for HP 3000 ATP RS232C interface.	3-pin Female ATP = 3-pin Male ATP	50 ft. (15 m)	(30153A)	30153-60001	$205.00 ea.
	Extension cable for HP 3000 ATP RS422 interface.	5-pin Male ATP = 5-pin Female ATP	100 ft. (30 m)	(30154A)	30154-60001	$205.00 ea.

See connector diagrams on page 56.

Be sure to see the book, *The RS-232 Solution*, page 120.

Video Extension cables

	Description	Connector Description	Length	Original system cable no.	Order cable no.	Price
HP Vectra PC	Monochrome video coaxial cable.	Phono Plug = Phono Plug	9.9 ft. (3.0 m)		45741A	$ 10.00 ea.
	Color video coaxial R, B, G cable.	Phono Plug = BNC	9.9 ft. (3.0 m)		45742A	$ 35.00 ea.

PORTABLE & Portable PLUS cables

PORTABLE and Portable PLUS to:	Description	Connector Description	Length	Original system cable no.	Order cable no.	Price
Modems	U.S. Modems, 103A, 212A, Vadic 3400 Modems, European 202C-type Modems. Acoustic Couplers. Shielded.	9-pin Male RS232C = 25-pin Male RS232C	5 ft. (1.5 m)	92221M	92221M	$40.00 ea.
Printers	RS232C Interface cable for serial printer requiring male connector such as 2225D, 2601A, 2602A, 2932A, 2934A. Shielded.	9-pin Male RS232C = 25-pin Male RS232C	5.0 ft. (1.5 m)	92221P	92221P	$40.00 ea.
	HP-IL Interface cable for 2225B, 82905B Opt. 448.	HP-IL Male = HP-IL Female	1.6 ft. (0.5 m)		82167A	$ 6.00 ea.
			3.3 ft. (1.0 m)	82167B	82167B	8.00 ea.
			16.7 ft. (5.0 m)		82167D	10.00 ea.

Chart continued next page.

It's easy to order: 800-538-8787

PORTABLE & Portable PLUS cables

PORTABLE and Portable PLUS to:	Description	Connector Description	Length	Original system cable no.	Order cable no.	Price
Plotters	RS232C Interface cable for 7440A Opt. 001, 7470A Opt. 001 or 7475A Opt. 001. Shielded.	9-pin Male RS232C — 25-pin Male RS232C	5.0 ft. (1.5 m)	92221P	92221P	$40.00 ea.
	HP-IL Interface cable for 7470A Opt. 003.	HP-IL Male — HP-IL Female	1.6 ft. (0.5 m)		82167A	$ 6.00 ea.
			3.3 ft. (1.0 m)	82167B	82167B	8.00 ea.
			16.7 ft. (5.0 m)		82167D	10.00 ea.

HP Touchscreen (HP 150) PC cables

Touchscreen PC to:	Description	Connector Description	Length	Original system cable no.	Order cable no.	Price
HP 3000	HP 1000, 3000 Systems. Shielded.	25-pin Male RS232C — 25-pin Male RS232C	16.7 ft. (5.0 m)	(13242N)	13242-60001	$100.00 ea.
			50.0 ft. (15.0 m)		92218A	110.00 ea.
	3-wire cable with EMP protection for terminals from lightning-induced transients. Shielded.	25-pin Male RS232C — 25-pin Male RS232C	16.7 ft. (5.0 m)	(13242Y)	13242-60005	$ 95.00 ea.
			50.0 ft. (15.0 m)		92218C	140.00 ea.
	RS232C Interface cable for HP 3000 ATP.	25-pin Male RS232C — 3-pin Male ATP	16.7 ft. (5.0 m)	(13242X)	92218D	$ 80.00 ea.
	RS422 Interface cable for HP 3000 ATP.	25-pin Male RS422 — 5-pin Male ATP	16.7 ft. (5.0 m)	13242P	13242P	$ 79.00 ea.
Modems	U.S. modems 103A, 202C/D/S/T, 212A, Vadic 3400 modems; acoustic couplers (signal compatible only). Shielded.	25-pin Male RS232C — 25-pin Male RS232C	16.7 ft. (5.0 m)	(13242N)	13242-60001	$100.00 ea.
			50.0 ft. (15.0 m)		92218A	110.00 ea.
	European 202C-type modems. Shielded.	25-pin Male RS232C — 25-pin Male RS232C	16.7 ft. (5.0 m)	(13242M)	13242-60002	$100.00 ea.
			50.0 ft. (15.0 m)		92218B	122.00 ea.
Printers	RS232C Interface cable for serial printer requiring male connector such as 2225D, 2601A, 2602A, 2603A, 2631, 2686A, 2686A Opt. 300, 2932A, 2933A, 2934A, 82905B. Shielded.	25-pin Male RS232C — 25-pin Male RS232C	16.7 ft. (5.0 m)	(13242G)	13242-60010	$ 69.00 ea.
	RS232C Interface cable for serial printer requiring female connectors.	25-pin Male RS232C — 25-pin Female RS232C	16.7 ft. (5.0 m)	(13242H)	13242-60011	$ 95.00 ea.
	Centronics (parallel) cable to connect to 2225C. Requires use of HP 45643A Extended I/O Accessory, available separately.	25-pin Female Centronics — 36-pin Male Centronics	6.6 ft. (2.0 m)	13242D	13242D	$ 50.00 ea.
	HP-IB Interface cable for 2602A Opt. 046, 2225A, 2932A Opt. 046, 2933A Opt. 046, 2934A Opt. 046, 82906A, 82905B Opt. 001-004	HP-IB Male/Female — HP-IB Male/Female	3.3 ft. (1.0 m)		10833A	$ 80.00 ea.
			6.6 ft. (2.0 m)		10833B	90.00 ea.
			13.2 ft. (4.0 m)		10833C	100.00 ea.
			1.6 ft. (0.5 m)		10833D	80.00 ea.
	HP-IL cable for 2225B. Requires HP45643A Extended I/O accessory, available separately.	HP-IL Male — HP-IL Female	1.6 ft. (0.5 m)		82167A	$ 6.00 ea.
			3.3 ft. (1.0 m)	82167B	82167B	8.00 ea.
			16.7 ft. (5.0 m)		82167D	10.00 ea.
Plotters	RS232C Interface cable for 7440A Opt. 001, 7470A Opt. 001, 7475A Opt. 001, DraftPro or 758X in stand-alone mode.	25-pin Male RS232C — 25-pin Male RS232C	3.9 ft. (1.2 m)		17255M	$ 40.00 ea.
			16.7 ft. (5.0 m)	(13242G)	13242-60010	69.00 ea.
	RS232C Interface cable for 7510A or 7550A in stand-alone mode.	25-pin Male RS232C — 25-pin Female RS232C	3.9 ft. (1.2 m)		17255D	$ 40.00 ea.
	RS232C Interface cable for 7470A Opt. 001, 7475A Opt. 001 or DraftPro in terminal mode (eavesdrop).	25-pin Male RS232C — 25-pin Male/Female RS232C; 25-pin Male RS232C — 25-pin Male RS232C	3.3 ft. (1.0 m)	17455A and (13242N)	17455A† and 13242-60001	$ 75.00 ea.
			16.7 ft. (5.0 m)			100.00 ea.
	RS232C Interface cable for 7510A or 7550A in terminal mode (eavesdrop).	25-pin Male RS232C — 25-pin Male RS232C	16.7 ft. (5.0 m)	(13242N)	13242-60001	$100.00 ea.
	HP-IB Interface cable for 7440A Opt. 002, 7470A Opt. 002, 7475A Opt. 002, 7510A, 7550A, DraftPro†† or 758X.	HP-IB Male/Female — HP-IB Male/Female	3.3 ft. (1.0 m)		10833A	$ 80.00 ea.
			6.6 ft. (2.0 m)		10833B	90.00 ea.
			13.2 ft. (4.0 m)		10833C	100.00 ea.
			1.6 ft. (0.5 m)		10833D	80.00 ea.
Discs	Disc drive to monitor for Touchscreen II (HP 150 II) only. Not for general HP-IB use.	GP-IB Male/Female — GP-IB Male	2 ft. (.6 m)	(45847-60002)	92220E	$ 85.00 ea.

†Piggyback male and female RS232C (Y-cable) supports eavesdrop mode.

††Requires 17570A HP-IB interface, available separately.

HP Vectra PC & IBM PC/AT cables

Vectra PC and IBM PC/AT to:	Description	Connector Description	Length	Original system cable no.	Order cable no.	Price
HP 3000	HP 3000 systems. Shielded.	9-pin Female RS232C = 25-pin Male RS232C	9.9 ft. (3.0 m)	**24542M**	**24542M***	$ 55.00 ea.
	HP 3000 systems. Shielded.	25-pin Male RS232C = 25-pin Male RS232C	16.7 ft. (5.0 m)	**(13242N)**	**13242-60001****	$100.00 ea.
			50.0 ft. (15.0 m)		**92218A****	110.00 ea.
	RS232C interface cable for HP 3000 ATP.	25-pin Male RS232C = 3-pin Male ATP	16.7 ft. (5.0 m)	**(13242X)**	**92218D****	$ 80.00 ea.
	RS422 interface cable for HP 3000 ATP.	25-pin Male RS422 = 5-pin Male ATP	16.7 ft. (5.0 m)	**13242P**	**13242P****	$ 79.00 ea.
Modems	US/European modems. Shielded.	9-pin Female RS232C = 25-pin Male RS232C	9.9 ft. (3.0 m)	**24542M**	**24542M***	$ 55.00 ea.
	US modems. Shielded.	25-pin Male RS232C = 25-pin Male RS232C	16.7 ft. (5.0 m)	**(13242N)**	**13242-60001****	$100.00 ea.
			50.0 ft. (15.0 m)		**92218A****	110.00 ea.
	European modems. Shielded.	25-pin Male RS232C = 25-pin Male RS232C	16.7 ft. (5.0 m)	**(13242M)**	**13242-60002****	$100.00 ea.
			50.0 ft. (15.0 m)		**92218B****	122.00 ea.
Printers	RS232C printer cable for 2225D, 2601A Opt. 826, 2603A, 2686A, 2686A Opt 300, 2932A, 2934A. Shielded.	9-pin Female RS232C = 25-pin Male RS232C	9.9 ft. (3.0 m)	**24542G**	**24542G***	$ 55.00 ea.
	RS232C printer cable for 2225D, 2601A Opt. 826, 2603A, 2686A, 2686A Opt 300, 2932A, 2934A. Shielded.	25-pin Male RS232C = 25-pin Male RS232C	16.7 ft. (5.0 m)	**(13242G)**	**13242-60010****	$ 69.00 ea.
	Parallel (Centronics) printer cable for 2225C, 2686A Opt 300, 2932A Opt 042, 2934A Opt 042. Shielded.	25-pin Male Centronics = 36-pin Male Centronics	6.6 ft. (2.0 m)	**24542D**	**24542D*****	$ 55.00 ea.
Plotters	RS232C plotter cable for 7440A Opt 001, 7470A Opt 001, 7475A Opt 001, DraftPro or 758X. Shielded.	9-pin Female RS232C = 25-pin Male RS232C	9.9 ft. (3.0 m)	**24542G**	**24542G***	$ 55.00 ea.
	RS232C plotter cable for 7440A Opt 001, 7470A Opt 001, 7475A Opt. 001, DraftPro or 758X. Shielded.	25-pin Male RS232C = 25-pin Male RS232C	3.9 ft. (1.2 m)		**17255M****	$ 40.00 ea.
			16.7 ft. (5.0 m)	**(13242G)**	**13242-60010****	69.00 ea.
	RS232 cable for 7510A or 7550A. Shielded.	9-pin Female RS232C = 25-pin Female RS232C	9.9 ft. (3.0 m)	**24542H**	**24542H***	$ 55.00 ea.
	RS232 cable for 7510A or 7550A. Shielded.	25-pin Male RS232C = 25-pin Female RS232C	3.9 ft. (1.2 m)	**17255D**	**17255D****	$ 40.00 ea.

*Requires HP 24540A serial/parallel or 24541A dual RS232/422 interface card (see page 105). For terminal emulation, AdvanceLink 2392 required (see P/N 68333F).

**Requires HP 24541A dual RS232/422 interface card (see page 105). For terminal emulation, AdvanceLink 2392 required (see P/N 68333F).

***Requires HP 24540A serial/parallel interface card.

LaserJet, ThinkJet, QuietJet & QuietJet Plus Printer cables

LaserJet, ThinkJet & QuietJet Printers to:	Description	Connector Description	Length	Original system cable no.	Order cable no.	Price
Touchscreen PC (HP 150)	RS232C Interface cable for ThinkJet (2225D), LaserJet family, QuietJet and QuietJet Plus (2227A). Shielded.	25-pin Male RS232C = 25-pin Male RS232C	3.9 ft. (1.2 m)		**17255M**	$ 40.00 ea.
			16.7 ft. (5.0 m)	**(13242G)**	**13242-60010**	69.00 ea.
	RS232C Interface cable for LaserJet family. Shielded. Supports X-On/X-Off handshake only.	25-pin Male RS232C = 25-pin Male RS232C	16.7 ft. (5.0 m)		**92219H**	$ 59.00 ea.
	Centronics (parallel) Interface cable for ThinkJet (2225C), LaserJet PLUS (2686A Opt. 300), LaserJet 500 PLUS (2686D), QuietJet and QuietJet Plus (2227A). Shielded.	36-pin Male Centronics = 25-pin Female Centronics	6.6 ft. (2 m)		**13242D***	$ 50.00 ea.

Chart continued next page.

It's easy to order: 800-538-8787

LaserJet, ThinkJet, QuietJet & QuietJet Plus Printer cables (continued)

LaserJet, ThinkJet & QuietJet Printers to:	Description	Connector Description	Length	Original system cable no.	Order cable no.	Price
Touchscreen PC (HP 150)	HP-IB Interface cable for ThinkJet (2225A). Shielded.	HP-IB Male/Female — HP-IB Male/Female	3.3 ft. (1.0 m)		10833A	$ 80.00 ea.
			6.6 ft. (2.0 m)		10833B	90.00 ea.
			13.2 ft. (4.0 m)		10833C	100.00 ea.
			1.6 ft. (0.5 m)		10833D	80.00 ea.
	HP-IL Interface cable for ThinkJet (2225B).	HP-IL Male — HP-IL Female	1.6 ft. (0.5 m)		82167A*	$ 6.00 ea.
			3.3 ft. (1.0 m)		82167B*	8.00 ea.
			16.7 ft. (5.0 m)		82167D*	10.00 ea.
HP Vectra PC, IBM PC/AT	RS232C Interface cable for ThinkJet (2225D), LaserJet family, QuietJet and QuietJet Plus (2227A). Shielded.	25-pin Male RS232C — 9-pin Female RS232C	9.9 ft. (3.0 m)	24542G	24542G**	$ 55.00 ea.
	RS232C Interface cable for ThinkJet (2225D), LaserJet family, QuietJet and QuietJet Plus (2227A). Shielded.	25-pin Male RS232C — 25-pin Male RS232C	3.9 ft. (1.2 m)		17255M†	$ 40.00 ea.
			16.7 ft. (5.0 m)	(13242G)	13242-60010†	69.00 ea.
	Centronics (parallel) Interface cable for ThinkJet (2225C), LaserJet PLUS (2686A Opt 300), LaserJet 500 PLUS (2686D), QuietJet and QuietJet Plus (2227A). Shielded.	36-pin Male Centronics — 25-pin Male Centronics	6.6 ft. (2.0 m)	24542D	24542D††	$ 55.00 ea.
PORTABLE and Portable PLUS	RS232C Interface cable for ThinkJet (2225D), LaserJet family, QuietJet and QuietJet Plus (2227A). Shielded.	25-pin Male RS232C — 9-pin Male RS232C	5.0 ft. (1.5 m)		92221P	$ 40.00 ea.
	HP-IL Interface cable for ThinkJet (2225B).	HP-IL Male — HP-IL Female	1.6 ft. (0.5 m)		82167A	$ 6.00 ea.
			3.3 ft. (1.0 m)		82167B	8.00 ea.
			16.7 ft. (5.0 m)		82167D	10.00 ea.
239X Terminals	RS232C Interface cable for ThinkJet (2225D), LaserJet family, QuietJet and QuietJet Plus (2227A). Shielded. Terminal requires 40210R interface, see page 116.	25-pin Male RS232C — 25-pin Male RS232C	16.7 ft. (5.0 m)	40242G	40242G	$ 95.00 ea.
	Centronics (parallel) Interface cable for ThinkJet (2225C), LaserJet PLUS (2686A Opt 300), LaserJet 500 PLUS (2686D), QuietJet and QuietJet Plus (2227A). Shielded. Terminal requires 40210P interface, see page 116.	36-pin Male Centronics — 36-pin Male Centronics	3.3 ft. (1.0 m)	40242D	40242D	$ 95.00 ea.
	HP-IB Interface cable for ThinkJet (2225A). For 2393A and 2397A only. Shielded. Terminal requires 40210H interface, see page 116.	HP-IB Male/Female — HP-IB Male/Female	3.3 ft. (1.0 m)		10833A	$ 80.00 ea.
			6.6 ft. (2.0 m)		10833B	90.00 ea.
			13.2 ft. (4.0 m)		10833C	100.00 ea.
			1.6 ft. (0.5 m)		10833D	80.00 ea.
HP 86	Centronics (parallel) Interface cable for ThinkJet (2225C). Shielded. Requires 82949A printer interface.	36-pin Male Centronics — 36-pin Male Centronics	4.0 ft. (1.2 m)		82957A	$ 60.00 ea.
IBM PC, PC/XT, Compaq, AT&T PC 6300	RS232C Interface cable for ThinkJet (2225D), LaserJet family, QuietJet and QuietJet Plus (2227A). Shielded.	25-pin Male RS232C — 25-pin Female RS232C	3.9 ft. (1.2 m)		17255D	$ 40.00 ea.
			16.7 ft. (5.0 m)		92219J	59.00 ea.
	Centronics (parallel) Interface cable for ThinkJet (2225C), LaserJet PLUS (2686A Opt 300), LaserJet 500 PLUS (2686D), QuietJet and QuietJet Plus (2227A). Shielded.	36-pin Male Centronics — 25-pin Male Centronics	9.0 ft. (2.7 m)		92219K	$ 50.00 ea.
Apple Macintosh‡	RS232C Interface cable for ThinkJet (2225D), LaserJet family, QuietJet and QuietJet Plus (2227A). Shielded.	25-pin Male RS232C — 9-pin Male RS232C	5 ft. (1.5 m)		92219M‡‡	$ 45.00 ea.

*Requires HP 45643A Extended I/O accessory (see page 107).

**Requires HP 24540A serial/Parallel or 24541A dual RS232/422 interface card (see page 105).

†Requires HP 24541A dual RS232/422 interface card (see page 105).

††Requires HP 24540A serial/parallel interface card (see page 105).

‡Macintosh Plus also requires Apple P/N 699-0372 Peripheral Adapter cable.

‡‡ThinkJet and QuietJet Plus require Jetstart software, HP 35177M, see page 14. LaserJet family requires Laserstart software, HP 35178M, see page 4.

Chart continued next page.

LaserJet, ThinkJet, QuietJet & QuietJet Plus Printer cables (continued)

LaserJet, ThinkJet & QuietJet Printers to:	Description	Connector Description	Length	Original system cable no.	Order cable no.	Price
Apple IIc	RS232C Interface cable for ThinkJet (2225D), LaserJet family, QuietJet and QuietJet Plus (2227A). Shielded.	25-pin Male RS232C = 5-pin Male Circular DIN	5 ft. (1.5 m)		92219N	$ 45.00 ea.
Apple IIe	RS232C Interface cable for ThinkJet (2225D), LaserJet family, QuietJet and QuietJet Plus (2227A). Shielded.	25-pin Male RS232C = 25-pin Male RS232C	9.9 ft. (3.0 m)		17355M	$ 60.00 ea.
IBM Convertible, compatible lap tops, Zenith 171/181, Toshiba 1100+	Centronics (parallel) interface cable for ThinkJet (2225P) battery powered. Shielded with thumb screws.	25-pin Male Centronics = 15-pin Male Centronics	3.3 ft. (1.0 m)		92219Z	$ 49.00 ea.

2603A & 293X Printer cables

2603A & 293X to:	Description	Connector Description	Length	Original system cable no.	Order cable no.	Price
HP 3000	RS232C Interface cable for HP 3000 ADCC and ATP modem port. Shielded.	25-pin Male RS232C = 25-pin Male RS232C	16.7 ft. (5.0 m)	(13242Y)	13242-60005	$ 95.00 ea.
			50.0 ft. (15.0 m)		92218C	140.00 ea.
	RS232C Interface cable for HP 3000 ATP. Shielded.	25-pin Male RS232C = 3-pin Male ATP	16.7 ft. (5.0 m)	(13242X)	92218D	$ 80.00 ea.
	HP422 Interface cable for HP 3000 ATP. For 293X printers with Opt. 035 only. Shielded.	25-pin Male RS232C = 5-pin Male ATP	16.7 ft. (5.0 m)	13242P	13242P	$ 79.00 ea.
Touchscreen PC (HP 150)	RS232C Interface cable. Shielded.	25-pin Male RS232C = 25-pin Male RS232C	3.9 ft. (1.2 m)		17255M	$ 40.00 ea.
			16.7 ft. (5.0 m)	(13242G)	13242-60010	69.00 ea.
	HP-IB Interface cable for 293X printers with Opt. 046 only. Shielded.	HP-IB Male/Female = HP-IB Male/Female	3.3 ft. (1.0 m)		10833A	$ 80.00 ea.
			6.6 ft. (2.0 m)		10833B	90.00 ea.
			13.2 ft. (4.0 m)		10833C	100.00 ea.
			1.6 ft. (0.5 m)		10833D	80.00 ea.
HP Vectra PC, IBM PC/AT	RS232C Interface cable. Shielded.	25-pin Male RS232C = 9-pin Female RS232C	9.9 ft. (3.0 m)	24542G	24542G*	$ 55.00 ea.
	RS232C Interface cable. Shielded.	25-pin Male RS232C = 25-pin Male RS232C	3.9 ft. (1.2 m)		17255M**	$ 40.00 ea.
			16.7 ft. (5.0 m)	(13242G)	13242-60010**	69.00 ea.
	Centronics (parallel) Interface cable for 293X printers with Opt. 042 only. Shielded.	36-pin Male Centronics = 25-pin Male Centronics	6.6 ft. (2.0 m)	24542D	24542D***	$ 55.00 ea.
PORTABLE and Portable PLUS	RS232C Interface cable. Shielded.	25-pin Male RS232C = 9-pin Male RS232C	5.0 ft. (1.5 m)	92221P	92221P	$ 40.00 ea.
239X Terminals	RS232 Interface cable. Shielded. Terminal requires 40210R interface, see page 116.	25-pin Male RS232C = 25-pin Male RS232C	16.7 ft. (5.0 m)	40242G	40242G	$ 95.00 ea.
	Centronics (parallel) Interface cable for 293X printers with Opt. 042 only. Shielded. Terminal requires 40210P interface, see page 116.	36-pin Male Centronics = 36-pin Male Centronics	3.3 ft. (1.0 m)	40242D	40242D	$ 95.00 ea.
	HP-IB Interface cable for 2393A and 2397A terminals and 293X printers with Opt. 046 only. Shielded. Terminal requires 40210H interface, see page 116.	HP-IB Male/Female = HP-IB Male/Female	3.3 ft. (1.0 m)		10833A	$ 80.00 ea.
			6.6 ft. (2.0 m)		10833B	90.00 ea.
			13.2 ft. (4.0 m)		10833C	100.00 ea.
			1.6 ft. (0.5 m)		10833D	80.00 ea.
IBM PC, PC/XT, Compaq, AT&T PC 6300	RS232C Interface cable for 2603A printer only. Shielded.	25-pin Female RS232C = 25-pin Male RS232C	3.9 ft. (1.2 m)		17255D	$ 40.00 ea.

*Requires HP 24540A serial/parallel or 24541A dual RS232/422 interface card (see page 105).

**Requires HP 24541A dual RS232/422 interface card (see page 105).

***Requires HP 24540A serial/parallel interface card (see page 105).

It's easy to order: 800-538-8787

ColorPro (7440A), 7470A, 7475A, 7510A, 7550A, DraftPro & 758X Plotter cables

ColorPro, 7470A, 7475A, 7510A, 7550A, DraftPro & 758X to:	Description	Connector Description	Length	Original system cable no.	Order cable no.	Price
Touchscreen PC (HP 150)	RS232C Interface cable for ColorPro (7440A Opt. 001), 7470A Opt. 001, 7475A Opt. 001, DraftPro and 758X. Shielded.	25-pin Male RS232C — 25-pin Male RS232C	3.9 ft. (1.2 m)		17255M	$ 40.00 ea.
			16.7 ft. (5.0 m)	(13242G)	13242-60010	69.00 ea.
	RS232C Interface cable for 7510A or 7550A. Shielded.	25-pin Female RS232C — 25-pin Male RS232C	3.9 ft. (1.2 m)		17255D	$ 40.00 ea.
	RS232C Interface cable for 7470A Opt. 001, 7475A Opt. 001 or DraftPro with Touchscreen PC in terminal mode (eavesdrop). Both cables required. Shielded.	25-pin Male RS232C — 25-pin Male/Female RS232C	3.3 ft. (1.0 m)		17455A† and	$ 75.00 ea.
			16.7 ft. (5.0 m)	(13242N)	13242-60001	100.00 ea.
	RS232C Interface cable for 7510A, 7550A or 758X with Touchscreen PC in terminal mode (eavesdrop). Shielded.	25-pin Male RS232C — 25-pin Male RS232C	9.9 ft. (3.0 m)		17355M or	$ 60.00 ea.
			16.7 ft. (5.0 m)	(13242N)	13242-60001	100.00 ea.
	HP-IB Interface cable for ColorPro (7440A Opt. 002), 7470A Opt. 002, 7475A Opt. 002, 7510A, 7550A, DraftPro†† and 758X. Shielded.	HP-IB Male/Female — HP-IB Male/Female	3.3 ft. (1.0 m)		10833A	$ 80.00 ea.
			6.6 ft. (2.0 m)		10833B	90.00 ea.
			13.2 ft. (4.0 m)		10833C	100.00 ea.
			1.6 ft. (0.5 m)		10833D	80.00 ea.
HP Vectra PC, IBM PC/AT	RS232C Interface cable for ColorPro (7440A Opt. 001), 7470A Opt. 001, 7475A Opt. 001, DraftPro and 758X. Shielded.	25-pin Male RS232C — 9-pin Female RS232C	9.9 ft. (3.0 m)	24542G	24542G*	$ 55.00 ea.
	RS232C Interface cable for ColorPro (7440A Opt. 001), 7470A Opt. 001, 7475A Opt. 001, DraftPro and 758X. Shielded.	25-pin Male RS232C — 25-pin Male RS232C	3.9 ft. (1.2 m)		17255M**	$ 40.00 ea.
			16.7 ft. (5.0 m)	(13242G)	13242-60010**	69.00 ea.
	RS232C Interface cable for 7510A or 7550A. Shielded.	25-pin Female RS232C — 9-pin Female RS232C	9.9 ft. (3.0 m)	24542H	24542H*	$ 55.00 ea.
	RS232C Interface cable for 7510A or 7550A. Shielded.	25-pin Female RS232C — 25-pin Male RS232C	3.9 ft. (1.2 m)		17255D**	$ 40.00 ea.
PORTABLE and Portable PLUS	RS232C Interface cable for ColorPro (7440A Opt. 001), 7470A Opt. 001, 7475A Opt. 001. Shielded.	25-pin Male RS232C — 9-pin Male RS232C	5.0 ft. (1.5 m)		92221P	$ 40.00 ea.
	HP-IL Interface cable for 7470A Opt. 003.	HP-IL Male — HP-IL Female	1.6 ft. (0.5 m)		82167A	$ 6.00 ea.
			3.3 ft. (1.0 m)		82167B	8.00 ea.
			16.7 ft. (5.0 m)		82167D	10.00 ea.
2393A, 2397A Terminals	RS232C Interface cable for 7470A Opt. 001, 7475A Opt. 001 or DraftPro in terminal mode (eavesdrop). Both cables required. Shielded.	25-pin Male RS232C — 25-pin Male/Female RS232C	3.3 ft. (1.0 m)		17455A† and	$ 75.00 ea.
			16.7 ft. (5.0 m)	40242M	40242M	95.00 ea.
	RS232C Interface cable for 7510A or 7550A in terminal mode (eavesdrop). Shielded.	25-pin Male RS232C — 25-pin Male RS232C	9.9 ft. (3.0 m)		17355M or	$ 60.00 ea.
			16.7 ft. (5.0 m)	40242M	40242M	95.00 ea.
	HP-IB Interface cable for ColorPro (7440A Opt. 002), 7470A Opt. 002, 7475A Opt. 002, 7510A, 7550A, DraftPro†† and 758X. Shielded. Terminal requires 40210H interface, see page 116.	HP-IB Male/Female — HP-IB Male/Female	3.3 ft (1.0 m)		10833A	$ 80.00 ea.
			6.6 ft. (2.0 m)		10833B	90.00 ea.
			13.2 ft. (4.0 m)		10833C	100.00 ea.
			1.6 ft. (0.5 m)		10833D	80.00 ea.
IBM PC, PC/XT, Compaq, AT&T PC 6300	RS232C Interface cable for ColorPro (7440A Opt. 001), 7470A Opt. 001, 7475A Opt. 001, DraftPro and 758X. Shielded.	25-pin Female RS232C — 25-pin Male RS232C	3.9 ft. (1.2 m)		17255D	$ 40.00 ea.
	RS232C Interface cable for 7510A or 7550A. Shielded.	25-pin Female RS232C — 25-pin Female RS232C	3.3 ft. (1.0 m)		17255F	$ 40.00 ea.

†Piggyback male and female RS232C (Y-cable) supports eavesdrop mode.

††Requires 17570A HP-IB interface, available separately.

*Requires HP 24540A serial/parallel or 24541A dual RS232/422 interface card (see page 105).

**Requires HP 24541A dual RS232/422 interface card (see page 105).

Chart continued next page.

ColorPro (7440A), 7470A, 7475A, 7510A, 7550A, DraftPro & 758X Plotter cables (continued)

ColorPro, 7470A, 7475A, 7510A, 7550A, DraftPro & 758X to:	Description	Connector Description	Length	Original system cable no.	Order cable no.	Price
Apple Macintosh††	RS232C Interface cable for ColorPro (7440A Opt. 001), 7470A Opt. 001, 7475A Opt. 001, DraftPro and 758X. Shielded.	25-pin Male RS232C = 9-pin Male RS232C	5 ft. (1.5 m)		92219M	$ 45.00 ea.
	RS232C Interface cable for 7510A or 7550A. Both cables required. Shielded.	25-pin Male RS232C = 9-pin Male RS232C 25-pin Female RS232C = 25-pin Female RS232C	5 ft. (1.5 m)		92219M and 92224F	$ 45.00 ea. 25.00 ea.
Apple IIc	RS232C Interface cable for ColorPro (7440A Opt. 001), 7470A Opt. 001, 7475A Opt. 001, DraftPro and 758X. Shielded.	25-pin Male RS232C = 5-pin Male Circular DIN	5 ft. (1.5 m)		92219N	$ 45.00 ea.
	RS232C Interface cable for 7510A or 7550A. Both cables required. Shielded.	25-pin Male RS232C = 5-pin Male Circular DIN 25-pin Female RS232C = 25-pin Female RS232C	5 ft. (1.5 m)		92219N and 92224F	$ 45.00 ea. 25.00 ea.
Apple IIe	RS232C Interface cable for ColorPro (7440A Opt. 001), 7470A Opt. 001, 7475A Opt. 001, DraftPro and 758X. Shielded.	25-pin Male RS232C = 25-pin Male RS232C	9.9 ft. (3.0 m)		17355M	$ 60.00 ea.
	RS232C Interface cable for 7510A or 7550A. Shielded.	25-pin Female RS232C = 25-pin Male RS232C	9.9 ft. (3.0 m)		17355D	$ 60.00 ea.
HP 3000	RS422 Interface cable connects 7510A or 7550A to HP 3000 ATP.	25-pin Female RS422 = 5-pin Male ATP	16.7 ft. (5.0 m)		17855A	$200.00 ea.

††Macintosh Plus also requires Apple P/N 699-0372, Peripheral Adaptor cable.

Terminal cables

Terminal to:	Description	Connector Description	Length	Original system cable no.	Order cable no.	Price
HP 3000	U.S./European modem cable. Shielded.	25-pin Male RS232C = 25-pin Male RS232C	16.7 ft. (5.0 m)	40242M	40242M	$ 95.00 ea.
	RS232C Interface cable for direct connect to HP 3000 ATP.	25-pin Male RS232C = 3-pin Male ATP	16.7 ft. (5.0 m)	40242X	40242X	$ 95.00 ea.
	RS422 Interface cable for direct connect to HP 3000 ATP.	25-pin Male RS422 = 5-pin Male ATP	16.7 ft. (5.0 m)	40242P	40242P	$ 95.00 ea.
	RS232C Interface cable for direct connect to HP 3000, protected against lightning-induced transients. Shielded.	25-pin Male RS232C = 25-pin Male RS232C	16.7 ft. (5.0 m)	40242Y	40242Y	$ 95.00 ea.
	RS232C extension cable.	25-pin Male RS232C = 25-pin Female RS232C	16.7 ft. (5.0 m)	40242C	40242C	$ 95.00 ea.
	RS232C modem bypass cable used with HP 12966 interface PCA.	25-pin Male RS232C = 25-pin Female RS232C	16.7 ft. (5.0 m)	40242Z	40242Z	$ 95.00 ea.
Printers	RS232C Interface cable for serial printers such as ThinkJet (2225D) and QuietJet Plus (2227A). Shielded. Requires 40210R interface, see page 116.	25-pin Male RS232C = 25-pin Male RS232C	16.7 ft. (5.0 m)	40242G	40242G	$ 95.00 ea.
	Centronics type (parallel) interface cable for printers such as ThinkJet (2225C) and QuietJet Plus (2227A). Shielded. Requires 40210P interface, see page 116.	36-pin Male Centronics = 36-pin Male Centronics	3.3 ft. (1.0 m)	40242D	40242D	$ 95.00 ea.
HP-IB Printers & Plotters (2393A and 2397A only)	HP-IB Interface cable for printers such as ThinkJet (2225A) and plotters such as 7475A Opt. 002. Shielded. Terminal requires 40210H interface, see page 116.	HP-IB Male/Female = HP-IB Male/Female	3.3 ft. (1.0 m)		10833A	$ 80.00 ea.
			6.6 ft. (2.0 m)		10833B	90.00 ea.
			13.2 ft. (4.0 m)		10833C	100.00 ea.
			1.6 ft. (0.5 m)		10833D	80.00 ea.

Chart continued next page.

It's easy to order: 800-538-8787

Terminal cables (continued)

Terminal to:	Description	Connector Description	Length	Original system cable no.	Order cable no.	Price
Video Display	Composite video cable for 2393A.	Coax Male — Coax Male	1.5 ft. (0.4 m)		40242V	$ 25.00 ea.
	RGB video cable for 2397A.	3 BNC — 3 BNC	1.5 ft. (0.4 m)		40242R	$ 40.00 ea.
Modems	U.S./European modem cable. Shielded	25-pin Male RS232C — 25-pin Male RS232C	16.7 ft. (5.0 m)	40242M	40242M	$ 95.00 ea.

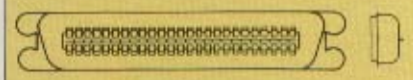
HP 3000 cables

HP 3000 to:	Description	Connector Description	Length	Original system cable no.	Order cable no.	Price
Modems	Connects HP 3000 to modem types 103 and 202S. Shielded.	25-pin Male RS232C — 25-pin Male RS232C	25 ft. (7.6 m)	(30062B)	30062-60022	$ 72.00 ea.
			50 ft. (15 m)	(30062B Opt. 001)	30062-60023	80.00 ea.

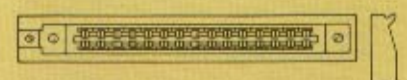
Multiplexer cables

System	Description	Connector Description	Length	Original system cable no.	Order cable no.	Price
98642A Multiplexer	Direct connect cable	25-pin Male RS232C — 25-pin Male RS232C	50 ft. (15.0 m)		92219R	$55.00 ea.
	Modem cable	25-pin Male RS232C — 25-pin Male RS232C	16.7 ft. (5.0 m)		92219S	$55.00 ea.
	RJ-11 cable	RJ-11 Male — RJ-11 Male	50 ft. (15.0 m)		92219T	$21.00 ea.
	RJ-11 to RS232C adapter plug. Adapter consists of RJ-11 female and RS232C male.		2 in. × 2.3 in. (5 cm × 6 cm)		92219U	$19.00 ea.
27140A Multiplexer	Modem cable	25-pin Male RS232C — 25-pin Male RS232C	16.7 ft. (5.0 m)		92219Q	$55.00 ea.

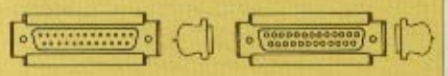
HELPFUL IDEAS!



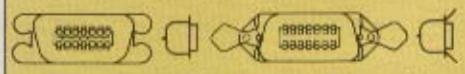
50-pin male (for 262X Terminals)



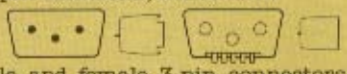
30-pin female (for 264X Terminals) 48-pin connector, not shown.



male and female standard 25-pin RS232C connectors.

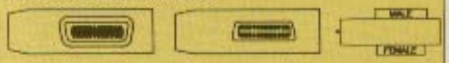


male and female 14-pin multipoint cable connectors.

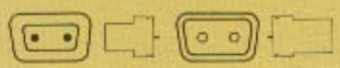


male and female 3-pin connectors for HP 3000 ATP RS232C interface.

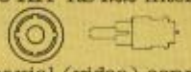
male and female 5-pin connectors for HP 3000 ATP RS422 interface.†



male/female HP-IB connectors.

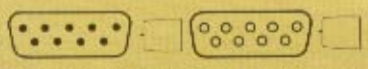


male and female HP-IL connectors.

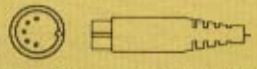


male coaxial (video) connector.

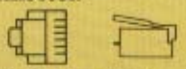
male and female 36-pin centronics-type connector.



male and female 9-pin sub-miniature D connector.



male 5-position circular DIN.



male RJ-11 plug.

†Same shape as 3-pin ATP connectors but with 5 pins.

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This warranty gives you specific legal rights, and you may also have other rights which vary from state to state, province to province, or country to country.

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Tucson 85706
Tel: (602) 273-8000
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A.

Album file
- Data cartridge 67
- Flexible discs 63

Anti-glare filters 97
Antistatic protection..... 98–99

B.

Bar code readers
- & accessories 103, 106

Batteries 108
Binders
- Data..... 85
- Data binder handles 85
- Data cartridge 67
- Documentation..... 126
- Flexible disc 63

Books
- Calculators 118
- Data base & spreadsheets 121
- Data communications.... 42, 119, 120
- Graphics 120
- Local Area Networks..... 42
- Operating Systems 120
- Personal computers ..121, 122
- Professional reference 120
- Programming languages .. 119
- Software 122
- Word processing 121

C.

Cabinets
- Accessories 85, 87
- Design Plus system 74–78
- High density storage....71, 88
- Magnetic tape storage ..71, 88
- Printout/documentation storage 88

Cables (for specific computer cables, use the Computer Equipment Reference Index)
- Accessories 42, 47
- Books 42
- Cable management kit..... 47
- Centronics-type 50–53, 55
- Connector kits 46
- Covers..... 47
- Gender converters 48
- HP-IB..... 48
- HP-IL..... 48
- Local area networks 41–44
- MicroSpooler™..... 132
- Modem 49–51, 53, 55–56
- Multiplexer 56
- Mult. outlet strips..... 136
- Cut-to-length ordering guide 45
- Personal computer 49–51
- Plotter 54–55
- Power cords 47
- Power strips 136
- Printer 51–53
- RS232C extension 49
- RS422.....49–51, 54
- Terminal 54, 55
- ThinLAN 44
- ThinMAU..... 44
- Unterminated..... 46
- Video extension..... 49

Calculators
- HP-18C & supplies ...101, 104
- HP-28C & supplies ...101, 104
- HP-97A supplies & accessories 103
- Series 10:
  - HP-11C-12C-15C-16C.. 102
- Series 10
  - Accessories 104
  - Books 102
- Series 10 desktop calculator stand 104
- Series 40
  - HP 41CV, HP 41CX 102
- Series 40
  - Accessories 103
  - Peripherals 103

Cards
- Magnetic..... 103

Carpet, antistatic..... 99
Carrying cases..... 95, 101, 104
Cartridges
- Data.....65, 66
- Disc 69
- Easy load mag tape 70
- High-density data 65, 66
- Mini-data..... 65
- PC data..... 66

Cartridge storage..... 66
Cassette drive 103
Casters, table..... 81
Chairs, ergonomic.....90, 91
Character fonts, plug-in ..5–7, 22
Cleaning kits 17, 21, 72, 97
Cleaning supplies
- Cartridges, mag tape drives 72
- Flexible disc drive 72

Computer
- Accessories and supplies
  - PORTABLE and Portable PLUS.....107–108
  - Series 40 103
  - Series 70 103
  - Series 80 109
  - Touchscreen..... 106
  - Vectra PC 105
- Cables
  - LaserJet Printers.....51, 52
  - PORTABLE and Portable PLUS 49
  - Touchscreen..... 50
  - Vectra PC 51
- Carrying Cases 95, 101, 104, 108

Subscriptions 122
Computer tape, magnetic .. 70
Cover, dust 94
Display turntables 93
Emulation accessories 106
Firmware
- Series 40 .....103, 108
- Series 80 109
- Touchscreen..... 106
- Vectra PC 105

Handheld
- computers..... 103
- Accessories and supplies..... 103
- Software 103

Modems (see Modems)
Peripherals
- HP-IL..... 103
- PORTABLE and Portable PLUS....11, 107
- Series 40 103
- Series 100/200.... 11, 16, 26–27
- Touchscreen.. 11, 16, 26–27
- Vectra PC 11, 16, 26–27, 105

Software
- HP Touchscreen 112
- PORTABLE and Portable PLUS..... 112
- Series 40 103
- Series 70 103
- Series 80 111
- Series 200 .....114, 115
- Vectra PC 113

Terminals
- HP 2392A..... 116
- HP 2393A.....116–117
- HP 2394A.....116–117
- HP 2397A.....116–117

D.

Daisywheel printer
- Accessories 16, 17
- HP 2603A..... 16
- HP 2603A supplies..... 16
- Supplies 18–22

Data cartridge
- Desktop storage rack 67
- High-density (formatted).... 65
- Mini 65
- PC 66
- Storage binder..... 67
- Storage tray 65, 66

Datacomm
- Modems 129–131
- Peripheral-sharing.....24, 132
- Test devices 128

Digital cassettes 65
Digital cassette drive 103
Disc cartridges..... 69
- Desktop storage rack 69
- 20.5 Mbyte cartridge..... 69

Disc, flexible..... 59, 60
- Cleaning supplies 72
- Easel binder kit 63
- Hanging files 64
- Storage and accessories .. 61, 62, 63, 64

Disc, microfloppy..... 59
- Cleaning supplies 72
- Hanging files 64
- Storage and accessories ... 61

Disc packs 69
- Storage cabinets 88

Disc/tape cleaning supplies... 72
Documentation
- Binders 126
- Index 124
- Storage rack..... 126

Drafting plotter..... 27
- Accessories 34–39
- Media..... 28–31

DraftPro Plotter
- Accessories 37, 39
- Media..... 30–31
- Pens..... 33–35

Drum kit, laser page printer.... 9
Dust covers 94

E.

Enclosure, sound..... 89
Ergonomic accessories ...92–93
Ergonomic chairs 90–91
Extended I/O card..... 106

F.

Filters, anti-glare 97
Flexible discs..... 59, 60
- Accessories 61–64
- Cleaning supplies 72
- High-capacity..... 59

Fonts, plug-in character ..5–7, 22
Footrest..... 93
Forms
- Printer layout 20

Furniture
- Cabinets 86–88
- Chairs 90, 91
- Design Plus 74–78
- Standard.....79–81
- Workstations.....82–84

G.

Gloves, cleaning 72
Graphic supplies 32–39

H.

Handheld computers
- HP 71B and accessories.. 103

Head alignment tape 71
Head cleaner, mag tape..... 72
Helpline Call Certificates 131
HP Express Service 129
HP-IB cables 48
HP-HIL devices
- HP Mouse..... 105, 106, 116
- HP Touch 105, 116
- HP-HIL extension module 105
- HP-IL accessories....103, 106
- HP-IL cables 48

HP-IL peripherals 103

I.

IBM emulation accessory.... 106
Impact printer
- Accessories 17
- Supplies 18–22

Ink-jet printer ..... VI, 11
- Supplies 12, 13, 14, 15

Index, computer documentation..... 124
Initialized flexible disc for HP 250 60
Interface cards
- PORTABLE and Portable PLUS..... 106
- Touchscreen..... 106
- Vectra PC 105

Interface modules 110
Isolation/Regulators 135

K.

Keyboard parks 92, 116, 117

L.

LaserJet 2000 Printer
- Font organizer ..... III, V, 3
- Fonts, plug-in 5–7
- Fonts, soft.....IV
- Paper cassette trays..... V
- Spent toner disposal boxes.. V
- Toner V
- LaserJet/LaserJet Plus Printers
  - Cables.....51–52
  - Character Fonts..... 5–7
  - Mobile Printer stand/ cabinet..... II
  - Paper trays..... 3
  - Soft fonts..... 8
  - Supplies & accessories 3, 4, 8
  - Toner..... 3

LaserJet Series II Printer
- Dust cover III
- Font organizer .....III, 3
- Fonts, soft.....IV
- Memory expansion boards ..IV
- Mobile printer cabinet.....II, III
- Paper trays.....III
- Replacement tray tops III
- Toner III

Laser page printers
- Carrier..... 9
- Character fonts 9–10
- Continuous paper 9
- Developer..... 9
- Disposal containers 9
- Drum kit 9
- Toner 9

Vacuum cleaner 10
Learning courses, self-paced 123
Local Area Networks
Accessories 42–43
Cables 42–43

M.

Magazines
HP PC Communicator 122
Interex 122
The Chronicle 122
Magnetic card reader 103
Magnetic tape 70
Auto load cartridges 70
Reels 71
Carrying case 71
Cleaning supplies 72
Desktop wire rack 70
Head alignment tape 71
Identification system 71
Labels 70
Sense markers 71
Manuals,
Computer 124–125
Local Area Network 42, 125
Mats
Antistatic 99
Sound absorbing 89
Media handling accessories 37
Memory
Boards/cards 106
Expansion boards, LaserJet Series II IV
Expansion kit 105
Modules 103
Memory (ROM)
Portable PLUS 107
Series 70 103
Series 80 110
Microfloppy
Disc 59
Accessories 61–63
Cleaning supplies 72
MicroSpooler™ 132
Modems
Anderson Jacobson modem 130
Cables ..... (see Cables)
Hayes Smartmodem 1200™ 129
Hayes Smartmodem 2400™ 129
Internal 131
MICOM 9600 131
PORTABLE/Portable PLUS 131
Security modem 130
Touchscreen 131
Vectra PC 131
Mult. outlet strip 136
Multiplexers
Cables 56

O.

Optical wand 103
Outlet strips 136
Overhead transparency
Film 30
Supplies 29, 33, 36–38
Overlays
Keyboard 110

P.

Paper
Blank roll 30
Glossy plotter 30
Impact printer 19
Laser printer 9
Non-glossy plotter 30
Thermal 23
Paper tape 20
Paper tray for
LaserJet 500 PLUS 4
LaserJet Printers 4
PC network 45
PC support products 122, 129, 131
Pens, plotter 33–36
Peripherals
Series 40 103
HP-IL 103
PORTABLE and Portable PLUS 11, 107
Series 100/200 ..... 11, 16, 26–27
Touchscreen 11, 16, 26–27
Vectra PC 11, 16, 26–27, 105
Personal computer (see "computer")
Platen Cleaner Pak™ 17
Plotter
HP 7440A 26
HP 7475A 27
HP 7550A supplies 29, 39
Media 28–31
Supplies & accessories 29–39
Plotter pen organizer 37–38
Plotter pens 33–36
Plotter sound enclosure 89
Plotter stand 38
Plotter supplies kit 38
Plug-in modules (Series 80) 109, 110
Polyester film, drafting plotter 31
Portable computers 103
Bar code 103
Portable modular jack 131
Portable PLUS-Desktop Link 107
Power line conditioners 133
Surge suppressors 134
Power strip 136
Printers
2225 ThinkJet & supplies 11, 12
2227A QuietJet Plus & supplies 11, 13
2228A QuietJet & supplies 11, 15
2603A Daisywheel & supplies 16
2686A LaserJet Printers (supplies) 3–7
82143A Thermal 103
82162A Thermal 103
QuietJet & QuietJet Plus supplies 11–15
Printer stand 14, 81, 93
Printer starter kits 12, 16
Print heads 15, 20
Printout storage cabinet 88
Printwheels 16, 21
Printwheel cleaning kit 21
Printwheel storage album 20
Programmable calculators 102
Punch, VFU tape 20

Q.

QuietJet/QuietJet Plus Printers
Cables 51–53
QuietJet Plus starter kit 13
Supplies & accessories 12–15

R.

Rack, documentation storage 126
Racks, wire
Disc cartridges 69
Magnetic tape 70
Ribbons 16, 18–19
ROMs
Portable PLUS 112
Series 80 firmware enhancements 109, 110
RS422 cables 49–51, 54
Ruler 17

S.

Security kits 96
Security locks 96
Security modem 130
Self-paced courses 123
Services
Helpline Call Certificates 131
HP Express 129
Software upgrade/ replacement 113
Sheet feeder, automatic 17
Sheet feeder paper tray 20
Software (see Computer)
Software upgrades 113
Solution books
Series 10 102
Series 40 103
Series 70 103
Sound enclosures 89
Stand, printer/plotter 17, 93
Stand, printer/terminal 14
Static protection 98–99
Storage
Cabinets 86–88
Printout/Documentation 88
Rack, mag tape 70
Support programs
Helpline Call certificates 131
Switches (RS232)
ABC 24
Dual ABC 24
HP-IB ABC 24

T.

Tables
Design Plus System 76–78
Mobile 81
Workstation 79–83
Tape
Color/numbering kit 71
Digital cassettes 65
High-density data cartridges 65
Mini-data cartridges 65
Paper perforator 20
Reels, auto load magnetic 70
Reels, regular magnetic 71
Tape storage 71
Terminals
HP 2392A 116
HP 2393A 116–117
HP 2394A 116–117
HP 2397A 116–117
Terminal bar code reader 106
Terminal tables 81
Test devices 128
Thermal paper 23
Thermal/Printer Plotters 103
ThinkJet printer
Accessory kit 12
Cables 51, 52
HP 2225 11
Jetstart™ 14
Supplies & accessories 12–15
Tracing bond, plotter 31
Transporters
Flexible/Microfloppy discs 63–64
Turntables
Display 93
PC 93
Type font
Character font cartridges 5–7
Plug-in character style 22

V.

Vacuum cleaner 10
Vacuum cleaner bags 20
Vellum, drafting plotter 31
VFU Tape, punch/splicer 20

W.

Workstation furniture
CAD mini-workstation 78
Caster set 81
Chairs 90–91
Copyholder 93
Mobile drawer unit 81
Mobile file unit 84
Mobile PC centre 84
PC workstation kit 82
Returns 80
Storage cabinets 86–88
Suspended drawer unit 81
Tables 79, 80
Tasklight unit 80
Work surface extension 80

HP-10C Calculator
Accessories 104
Desktop stand 104

HP-11C Calculator 102
Accessories 104
Desktop stand 104
Solution books 102

HP-12C Calculator 102
Accessories 104
Desktop stand 104
Solution books 102

HP-15C Calculator 102
Accessories 104
Desktop stand 104
Solution books 102

HP 16C Calculator 102
Accessories 104
Desktop stand 104

HP 18C Calculator 101
Carrying cases 104
Manuals 101
Paper 101
Printer 101
Printer case IX
Training guide IX

HP 28C Calculator IX
Carrying Case 104
Paper 101
Printer 101
Printer case IX
Solution books IX

HP 41C Advanced programmable calculator
Accessories 103
HP-IL video interface 103
Mag card reader 103
Optical wand 103
Thermal printer/plotter 103
ThinkJet printer 11

HP 41CV/CX Advanced programmable calculator 102
AC adapter/recharger 103
Accessories 103
Battery pack 103
Blank key overlays 103
Blank labels 103
Data cassettes 103
Digital cassette drive 103
Extended functions/memory 103
Extended I/O module 103
Extended memory module 103
HP-IL accessories and supplies 103
HP-IL cables 103
HP-IL/GPIO interface 103
HP-IL/HP-IB interface 103
HP-IL interface 103
HP-IL peripherals 11, 103
HP-IL/RS232C interface 103
HP-IL Series 40 interface 103
HP-IL Series 80 interface 110
HP-41 touchpad 103
HP-IL video interface 103
Magnetic card reader 103
Manuals 103, 118
Module holders 103
Optical wand 103
Overlays 103
Peripherals 103
Plotter module 103
Program cards 103
Program card holders 103
Security cable 103
Soft case 103
Software 103
Solution books 103
Thermal paper 103
Thermal printer/plotter 103
ThinkJet printer 11
Time module 103

HP 71B Handheld Computer 103
Accessories 103
Extensions 103
HP-IL adapter 103
Software 103
Solution books 103
ThinkJet printer 11

HP 75D Handheld Computer
Accessories 103
Bar code wand 103
HP-IL accessories 103
HP-IL video interface 103
ThinkJet printer 11

Series 80 Computer
Accessories 109–110
Anti-glare filter 97
Bar code reader 103
Carrying cases 95
Dust covers 94
HP-IL cables 48
HP-IL video interface 103
Interface modules ... 109–110
Manuals 124
Microfloppy discs & accessories 59, 61–64
Mini-data cartridges & accessories 65, 67
Plug-in modules 109–110
ROMs 109–110
Software 111
Software upgrades 113
Thermal paper 23
ThinkJet printer 11

HP-97A Calculator
Accessories 103
Thermal paper 23, 103

The PORTABLE (HP 110 Computer)/The Portable PLUS
Accessories 107–108
Books 121
Cables 49–50
Carrying cases 95, 108
Extended I/O card 107
HP-IL Interface card (for Portable PLUS only) 107
HP PC Communicator 122
HP users' group 122
Manuals 124
Memory card (for Portable PLUS only) 107
Memory drawer (for Portable PLUS only) 107
Microfloppy discs & accessories 59, 61–64
Modems 129, 131
Software 112
Software upgrades 113
Software drawer (for Portable PLUS only) 107
ThinkJet printer 11

HP 120 Computer
Bar code labels 103
Books 119–121
Carrying case 95
HP users' group 122
Keyboard park 92
Microfloppy discs & accessories 59, 61–64

HP 125 Computer
Anti-Glare Filter 97
Bar code reader 103
Books 119–121
Dust cover 94
HP users' group 122
Keyboard park 92
Microfloppy discs and accessories 59, 61–64
Thermal paper 23
ThinkJet printer 11

Touchscreen (HP 150 Computer)/Touchscreen II
Accessories 106
Bar code reader 106
Books 119–121
Cables 50
Carrying Case 95
Data cartridge 66
Display tilt ... center of catalog
Dust covers 94
HP-HIL devices 106
HP users' group 122
IBM 3278 emulation accessory ... 106
Internal modem 131
Keyboard park 92
LAN cables 41–44
Manuals 124
Microfloppy discs & accessories 59, 61–64
Modems 129–131
Peripheral sharing 24
Plotters 26–27
RAM memory boards 106
Software 112
Software upgrades 113
Surge suppressors ... VIII, 136
Swivel unit ... center of catalog
Thermal paper 23
ThinkJet printer 11
Touchscreen-PORTABLE Link (Extended I/O accessory card) 106

Series 200 Model 16
Books 119–121
Keyboard parks 92
Microfloppy discs & accessories 59, 61–64
Modems 129–130
Software 114
Software upgrades 113
ThinkJet printer 11

Series 200 Models 217 & 237
Cabinet 78
Modems 129–130
Software 114
Software upgrades 113

Series 200 HP-UX Models 217, 220 & 236
Modems 129–130
Software 115
Software upgrades 113

HP 250 Computer
Flexible discs & accessories 60–64
Modems 129–130
ThinkJet printer 11

HP 1000 Computer
Cables 50
Flexible discs & accessories 60–64
Manuals 125
Mini-data cartridges 65
Modems 129–130
Power line conditioning 135

2225A/B/C/D/P ThinkJet Printer 11
Accessory kit 12
Cables 51–53
Carrying case 15, 95
Desktop stand 15
Dust cover 15, 94
Ink cartridge 15
Mailing labels 14
Manual 124
Paper 15
Peripheral sharing 24
Printer stand 13–15
Supplies & accessories 12–15

2227A QuietJet Plus Printer ..... VI, 11
Accessory kit 13
Cables 51–53
Dust cover 15, 94
Ink cartridges 15
Paper 15
Paper catcher 13
Peripheral sharing 24
Printer stand 13, 15
Supplies &accessories 13–15

2228A QuietJet Printer ... VI, 11
Cables 51–53
Dust cover 15, 94
Ink cartridges 15
Paper 15
Peripheral sharing 24
Printer stand 13, 15
Supplies & accessories 13–15

2382A Terminal
Cables 55–56
Carrying case 95
Dust cover 94

2392A Terminal 116
Bar code reader 116
Dust cover 94, 116
Keyboard park ... 92, 116–117
Manuals 124
Modems 129–130
Peripherals 11, 16, 26–27, 116
Peripheral sharing 24
Terminal accessories ... 92, 116–117
Terminal-top ThinkJet printer stand 14

2393A Terminal 117
Bar code reader 116
HP-HIL devices 106, 116
Keyboard parks 92, 116–117
Peripherals 11, 16, 26–27, 116
Printer stand 14
Terminal accessories ... 92, 116–117

2394A Terminal 117
Bar code reader 116
Dust cover 94, 116
Keyboard parks 92, 116–117
Manuals 124
Modems 129, 130
Peripherals 11, 16, 26–27, 116
Printer stand 14
Terminal accessories 116–117

2397A Terminal 117
Bar code reader 116

Computer equipment reference (continued)

Keyboard parks 92, 116–117
Peripherals i1, 16, 26–27, 116
Printer stand 14
Terminal accessories ... 92, 116–117

2563A Printer
Paper 19
Ribbons 18

2601A Printer
Cables 49–51
Paper 19
Paper tray 20
Peripheral sharing 24
Platen Cleaner Pak™ 17
Printwheels 21
Printwheel clean kit 21
Ribbons 18
Sheet feeder, automatic 17
Sound absorbing pad 89

2602A Printer
Cables 49–50
Paper 19
Peripheral sharing 24
Platen Cleaner Pak™ 17
Printwheels 22
Ribbons 18
Sheet feeder, automatic 17
Sound absorbing pad 89

2603A Daisywheel printer ... 16
Cables 50–51, 53
Printwheels 16
Ribbons 16
Start-up kit 16

2607A Printer
Paper 19
Ribbons 18

2608A/S Printer
Layout forms 20
Paper 19
Ribbons 18

2611A Printer
Paper 19
Ribbons 18

2613A Printer
Paper 19
Ribbons 18
Vacuum bags 20
VFU tape 20

2617A Printer
Paper 19
Ribbons 18
VFU tape 20

2618A Printer
Paper 19
Ribbons 18
VFU tape 20

2619A Printer
Paper 19
Ribbons 18
Vacuum bags 20
VFU tape 20

262X Terminal
Anti-Glare Filter 97
Bar code reader 103
Cables 55–56
Connector kits 46
Dust cover 94
Keyboard park 92
Manuals 124
Thermal paper 23

2631A/B/G Printer
Cables 50
Dust cover 94
Manuals 124
Paper 19
Replacement print head 20
Ribbons 19
Sound absorbing pad 89

2635A/B Printing Terminal
Paper 19
Replacement print head 20
Ribbon 19

2639A Terminal
Ribbon 19

264X Terminal
Connector kit 46
Dust cover 94
Flexible discs & accessories 59, 61–64
Mini-data cartridges 65

2671A/G Printers
Thermal paper 23

2673A/2674A Printers
Thermal paper 23

2675A Terminal
Thermal paper 23

2680A/2685A/2689A Printer
Carrier 9
Continuous fanfold paper 9
Developer 9
Disposal containers 9
Drum kit 9
Paper 9
Splicing tape 9
Toner 9
Vacuum cleaner 10

2684 LaserJet 2000
Font cartridges 5–7
Font organizer ..... III, V, 3
Paper cassette trays V
Soft fonts IV
Toner V
Toner disposal boxes V

2686 LaserJet Printer Family
Books 121
Cables 51–53
Character font cartridges (for LaserJet only) 5–7
Font organizer ..... III, V, 3
Forward collator tray 3
Manuals 124
Paper trays 3
Peripheral sharing 24
Printer driver 4
Printer stand ..... II, III, 4
Soft fonts ..... IV, 8
Supplies & accessories ... 3–4
Toner 3

2687A Laser Printer
Character font cartridges ... 10
Data binders 85
Supplies 9

2688A Laser Printer
Data binders 85
HP-IB extenders 48
Software fonts 9
Supplies 9

2767A Printer
Ribbons 19

2932/33/34A Dot matrix printers
Paper 19
Plug-in character style cartridges 22
Print head 20
Ribbon cartridge 19

HP 3000 Computer
Cables 49–51, 53, 55–56
Cabinet 78
Flexible discs & accessories 60–64, 72
HP users' group 122
Learning aids 123
Manuals 125
Mini-data cartridges 65
Modems 129–131
Power line conditioning 135

3075/76/77A Terminals
Thermal paper 23

33440 LaserJet Series II
Cabinet ..... II, III, 4
Dust cover ..... III, IV, 94
Font cartridges 5–7
Font organizer ..... III, V, 3
Memory expansion boards IV
Paper trays III
Printer stand ..... II, III, 4
Soft fonts IV
Toner III
Tray-top replacement covers III

35401A Tape Drive
Data cartridge 65
Data cartridge tray 65
Magazine (cartridge) 66

45811A Vectra disc drive
Flexible discs & accessories 59, 61–64

45812A Vectra disc drive
Flexible discs & accessories 59, 61–64

7090A Plotter
Carousel 39
Dust cover 94
Transparency plotter film ... 30
Transparency film kits 38
Paper 30
Paper and pen kit 38
Pen organizers 37
Pens 32–33

7220A/B/C/S/T Plotter
Digitizing sight 39
Drafting pen boots 39
Dust cover 94
Media 30–31
Transparency film kits 38
Pen organizers 37
Pens 33, 35
Plotter points 35

7221A/B/C/S/T Plotter
Digitizing sight 39
Drafting pen boots 39
Dust cover 94
Media 30–31
Transparency film kits 38
Paper and pen kit 38
Pen organizers 37
Pens 33, 35
Plotter points 35

7225A/B Plotter
Carrying case 95
Digitizing sight 39
Media 30
Transparency film kits 38
Paper and pen kits 38
Pen organizers 37
Pens 33

7240A Plotter/Printer
Carrying case 95
Digitizing sight 39
Thermal paper 23
Thermal print head 39

7245A/B Plotter/Printer
Digitizing sight 39
Carrying case 95
Thermal paper 23
Thermal print head 39

7310A Printer
Thermal paper 23

7440A/7475A Plotters 26–27
Cables 50–51, 54–55
Carrying cases 95
Cleaning supplies 39
Digitizing sight 39
Dust cover 94
Graphics organizers 38
Manuals 124
Media 30–31
Paper and pen kits 38
Pen boots 39
Pen carousels 36, 39
Pen organizers 37
Pens 33, 35
Peripheral sharing 24
Plotter driver VII
Plotter points (7475A only) 35
Sound enclosure ..... VII, 89
Transparency film kits 38

7470A Plotter
Cables 50–51, 54–55
Carrying case 95
Digitizing sight 39
Dust cover 94
Manuals 124
Media 30
Paper and pen kits 38
Pen organizers 37
Pens 33
Peripheral sharing 24
Sound enclosure ..... VII, 89
Transparency film kits 38

7550A Plotter
Cables 50–51, 54–55
Catcher tray 37
Cleaning supplies 39
Digitizing sight 39
Dust covers 94
Loading tray 37
Manuals 124
Media 30–31
Media handling kit 37
Paper and pen kits 38
Pen carousel 36, 39
Pen organizers 37
Pens 33–36
Peripheral sharing 24
Plotter driver VII
Plotter points 35
Transparency film kit 38

7570A DraftPro Plotter
Cables 50–51, 54–55
Carousels 39
Pen organizers 37
Pens 33–35
Media 30–31
Supplies & accessories 39

7580A Plotter
Adapters 39
Cleaning supplies 39
Digitizing sights 39
Manuals 124
Paper 30–31
Paper and pen kit 36, 38
Pen boots 39
Pen carousel 39
Pen organizers 37
Pens 33–36
Plotter points 35

7585A Plotter
Adapter 39
Cleaning Supplies 39
Digitizing sight 39
Manuals 124
Media 30–31
Paper and pen kits 36, 38
Pen boots 39
Pen carousel 36, 39
Pen organizers 37
Pens 33–36
Plotter points 35

7586 Plotter
Adapter 39
Cleaning supplies 39
Digitizing sights 39
Media 30–31
Paper and pen kit 36, 38
Pen boots 39
Pen carousel 36, 39
Pen organizers 37
Pens 33–36
Plotter points 35
Take-up cores 39

7595/7596 DraftMaster I/II
Media 30–31
Media cutter 39
Pen boots 39
Pen carousel 36, 39
Pen organizers 37
Pens 33–36

7900A Disc drive
Disc cartridge 69
Disc rack 69

7901A Disc drive
Disc cartridge 69
Disc rack 69

7905A Disc drive
Disc cartridge 69
Disc rack 69

7906H/M/S Disc drive
Disc cartridge 69
Disc cartridge rack 69
Service Manual 124

7907A Disc drive
Removable disc cartridge .. 69

7908A Winchester drive
Data cartridges 65

7911A Winchester drive
Data cartridges 65

7912A Winchester drive
Data cartridges 65

7914A Winchester drive
Data cartridges 65

7920H/M/S Disc drive
Disc pack 69

7925H/M/S Disc drive
Disc pack 69

7935H Disc drive
Removable media module 69

7942A drive
Data cartridges 65
Data cartridge tray 65

7946A drive
Data cartridges 65
Data cartridge tray 65

7970 Tape drive
Cleaning accessories 72
Magnetic tape 70
Manuals 124
Reel labels 70
Tape storage 70–71

7971 Tape drive
Cleaning accessories 72
Magnetic tape 70
Reel labels 70
Tape storage 70–71

7974 Tape drive
Cleaning accessories 72
Magnetic tape 70
Reel labels 70
Tape storage 70–71

7976 Tape drive
Cleaning accessories 72
Magnetic tape 70
Manuals 124
Reel labels 70
Tape storage 70–71

7978 Tape drive
Cleaning accessories 72
Magnetic tape 70
Reel labels 70
Tape storage 70–71

82143A Printer
Thermal paper 23

82161A Digital cassette drive 103
Mini-data cassettes 65

82162A Printer/Plotter 103
110 adapter/recharger 103
Battery pack 103
Power pack 103
Security cable 103
Thermal paper 23

8290X Disc drives
Cleaning kit 72
Dust cover 94
Flexible discs & accessories 59, 61–64

82905A/B Printer
Desktop printer stand 93
Dust cover 94
Paper 19
Peripheral sharing 24
Print head 20
Ribbons 19

82906A Printer
Cables 50
Paper 19
Peripheral sharing 24
Print head 20
Ribbons 19

HP 9000 Computer
Cables 45
Flexible discs & accessories 59, 61–64
Local area network cables 41–44
Power line conditioning 135
Reference Manuals 125
Thermal paper 23

9111A Graphics tablet
Key overlays 39
Stylus refills 39

9114A/B Disc drive
Carry case 95
Dust cover 94
Microfloppy discs & accessories 59, 61–64
Replacement battery 107

9121S/D Dual disc drive
Carry case 95
Dust cover 94
Microfloppy discs & accessories 59, 61–64

9122S/D Disc drive
MicroFloppy discs & accessories 59, 61–64

9123D Disc drive
MicroFloppy discs & accessories 59, 61–64

9125S/35A Disc drive
Flexible discs & accessories 59, 61–64

9127A Disc drive
Flexible discs & accessories 59, 61–64

9133D/H/L Disc drive
Microfloppy discs & accessories 59, 61–64

9142A Tape drive
Data cartridges 66
Data cartridge tray 65

9144A Tape drive
Data cartridges 65
Data cartridge tray 65

9153A/B Disc drive
Microfloppy discs & accessories 59, 61–64

97907A 20.5 Mb Disc cartridge 69

9807A Integral computer
Carrying case 95
Dust cover 94
Software 115

9810A Calculator
Thermal paper 23

9815A/S Computer
Mini data cartridge 65
Thermal paper 23

9816A Computer
(See Series 200)

9820A Calculator
Thermal paper 23

9821A Calculator
Tape cassette 65
Thermal paper 23

9825A/B/S/T Computers
Flexible discs & accessories 60–64
Mini data cartridges 65
Thermal paper 23

9830A/B Computers
Digital cassette 65

9835A/B Computers
Cables 45
Mini data cartridges 65
Thermal paper 23

9836A Computer
Flexible discs & accessories 59, 61–64

9845A/B/C/S/T Computer
Cables 45
Mini data cartridges 65
Thermal paper 23

9865A Cassette drive
Digital cassette 65

9866A/B Printer
Thermal paper 23

9871A Printer
Paper 19
Print discs 22
Ribbon 19

9872/A/B/C/S/T Plotter
Digitizing sight 39
Dust cover 94
Media 30–31
Transparency film kits 38
Paper and pen kit 38
Pen organizers 37
Pens 33, 35
Plotter points 35
Replacement boot 39

9874A Digitizer
Overlay 39

9875A Tape unit
Mini data cartridges 65

9876A Printer
Thermal paper 23

9877A Tape unit
Mini data cartridges 65

9885M/S Disc Drive
Flexible discs & accessories 60–64

9895 Flex Disc Drive
Flexible discs & accessories 60–64

9915A Computer
Mini data cartridges 65

Vectra PC
Cables ..... VIII, 45, 51
Carrying case 95
Disk/Tape interface accessory 105
Dust cover 94
Flexible discs & accessories 59, 60–64
HP-HIL Extension module 105
HP Mouse 105
HP Touch 105
Interface accessories 105
Internal modem 131
Keyboard parks 92
Memory expansion cards 105
Memory expansion kit 105
Modems 129–131
Numeric co-processor 105
Peripheral sharing devices 24
Plotters 26–27
Printers 11, 16
Rack mount shelf kit 92
Security lock 105
Software ..... VII, 113
Surge suppressors ..... VIII, 136
Tape cartridge 66

Workstation Furniture and Accessories
Cabinets 86–88
CAD mini-workstation 78
Casters 81
Corner turn 78, 81
Desktop storage unit 81
Drawer units 78, 81
Ergonomic chairs 90–91
Filler panel kit 78
LaserJet Printer cabinet ..... II, III, 4
Library tape rack 88
Mobile drawer units 78, 81
PC Centre 84
Printer/terminal stand 81
Rail kit 78
Stacking modules 82–83
Storage module unit 81
Storage shelves 81
Tabletop connectors 78, 81
Task light unit 80
Workstation accessories 92–93
Workstation tables 78, 80–81

Product number listing of catalog items

0

00011-90009 11C solution handbook. 102
00012-90009 12C solution handbook. 102
00012-90015 12C solution handbook. 102
00012-90021 12C solution handbook. 102
00012-90022 12C training guide . . 102
00015-90011 15C solution handbook. 102
00018-90001 18C solution handbook. 101
00018-90018 18C solution handbook. 101
00018-90034 18C solution handbook. 101
00018-90035 18C solution handbook. 101
00018-90036 18C solution handbook. 101
00018-90037 18C solution handbook. 101
00018-90038 18C solution handbook. 101
00018-90039 18C solution handbook. 101
00018-90040 18C solution handbook. 101
00018-90041 18C solution handbook. 101
00028-90001 28C solution handbook. 101
00028-90021 28C solution handbook. 101
00028-90041 28C solution handbook. 101
00028-90042 28C solution handbook. 101
00028-90043 28C solution handbook. 101
00028-90044 28C solution handbook. 101
00041-15001 Standard Applications 103
00041-15004 Financial Decisions 103
00041-15005 Surveying 103
00041-15006 Circuit Analysis 103
00041-15016 Real Estate 103
00041-15017 Navigation 103
00041-15018 Aviation (Pre-flight only) 103
00041-15019 Thermal & Transport Science 103
00041-15020 Machine Design. . . . 103
00041-15021 Structural Analysis 103
00041-15022 Games. 103
00041-15023 Home Management 103
00041-15024 Clinical Lab & Nuclear Medicine. 103
00041-15026 Securities. 103
00041-15027 Stress Analysis 103
00041-15030 Financial Decisions (Spanish) 103
00041-15039 Petroleum Fluids . . . 103
00041-15042 Auto-start Duplication ROM 103
00041-15043 HP-IL Development Module. 103
00041-15049 Math/Stat Pac 103
00041-15052 Math/Stat Pac (Spanish) 103
00041-15055 HP 41 Advantage Pac 103
00041-90082 Test Statistics. 103
00041-90083 High Level Mathematics 103
00041-90084 Geometry 103
00041-90086 Lending, Savings & Leasing 103
00041-90088 Electrical Engineering 103
00041-90089 Civil Engineering . . . 103
00041-90090 Mechanical Engineering 103
00041-90092 Control Systems . . . 103
00041-90093 Antenna. 103
00041-90094 Business Statistics/ Marketing/Sales. 103
00041-90096 Home Construction Estimating 103
00041-90099 Games I. 103
00041-90100 Chemical Engineering 103
00041-90102 Chemistry 103
00041-90136 Real Estate 103
00041-90137 Small Business 103
00041-90138 Solar Engineering . . 103
00041-90139 Fluid Dynamics & Hydraulics 103
00041-90140 Heating Ventilation & Air Conditioning 103
00041-90141 Surveying 103
00041-90142 Physics 103
00041-90143 Optometry (General) 103
00041-90144 Optometry II (Contact lens) 103
00041-90145 Calendars 103
00041-90395 Time Module Solutions I 103
00041-90441 Structural Design (includes cassette). 103
00041-90443 Games II 103
00071-90064 Math HP-71B. 103
00071-90065 Games HP-71B 103
00071-90066 General Utilities HP-71B 103
00085-15001 Mass Storage ROM 110
00085-15002 Printer/ Plotter ROM 110
00085-15003 I/O ROM 110
00085-15004 Matrix ROM. 110
00085-15005 Advanced Programming ROM 110
00085-15007 Assembler ROM . . . 110
00085-15013 Extended Mass Storage ROM. 110
00087-15002 Plotter ROM. 110
00087-15003 I/O ROM 110
00087-15004 Matrix ROM. 110
00087-15005 Advanced Programming ROM 110
00087-15007 Assembler ROM . . . 110
00087-15012 Electronic Disc ROM 110
00087-15013 Extended Mass Storage ROM. 110
00097-13142 3 Program Card Holders for 82104A 103
00097-13143 120 Blank Cards for 82104A 103
02608-60091 Pkg. of Layout Forms 20
02613-80001 Individual Pre-punched VFU 20
02619-80003 Individual Pre-punched VFU 20
07245-60001 Thermal Print Head . . 39
07440-60001 7440A Carrying Case 95
07440-60006 7440A Dust Cover . . . 94
07440-60085 Fiber-tip Pen Carousel 26,39
07470-60001 Plotter Carrying Case 95
07475-60001 7475A Carrying Case 95
07475-60010 7475A Dust Cover . . . 94
07475-60030 Refillable Short Body Drafting Pen Carousel 36,39
07475-60038 Boots for Refillable Drafting Pen Carousels 39
07550-60050 Fiber-tip Transparency Pen Carousel 39
07550-60051 Fiber-tip Paper Pen Carousel 39
07550-60052 Rollerball Pen Carousel 39
07550-60053 Refillable/ Disposable Drafting Pen Carousel 36,39
07550-60152 A-Size Media Loading Tray 37
07550-60158 A4-Size Media Loading Tray 37
07550-60210 7550A Dust Cover . . . 94
07570-60050 Fiber-tip Paper Pen Carousel 39
07570-60055 Refillable/ Disposable Drafting Pen Carousel 36,39
07580-60025 Refillable Drafting Pen 35
07580-60035 Fiber-tip Paper Pen Carousel 39
07580-60081 Refillable/ Disposable Drafting Pen Carousel 36,39
07580-60082 Rollerball Pen Carousel 39
07580-60181 Boots for Drafting Pen Carousels 39
07580-60182 Boots for Fiber-tip/ Rollerball Pen Carousels 39
07580-60240 Disposable Drafting Pen Carousel 36,39
07585-60191 Angled View Sight . . . 39
07596-60008 Media Cutter 39
09111-68701 Stylus Refills 39
09826-90072 Pascal book. 119
09872-60066 Straight Sight. 39
09874-67924 Hold-down Magnet. . . 39
09874-87000 Pkg. of 5 Hold-down Sheets 39
09885-90045 Single- sided 8-in. Disc 60

1

10833A HP-IB Cable. 116
10833A/B/C HP-IB Cables 24
10833A/B/C/D Straight-angle HP-IB Cables. 48,50,52-55
11C Programmable Scientific Calculator 102
12679B Rail Kit. 92
12869A 2.5 Mb Disc Cartridge 69
12940A 9.8 Mb Disc Cartridge 69
12C Programmable Financial Calculator 102
13242-60001 RS232C Interface Cable 50,51,54
13242-60002 European Modem Cable. 50,51
13242-60005 RS232C Interface Cable. 50,53
13242-60010 RS232C Interface Cable. 50-54
13242-60011 RS232C Interface Cable. 50
13242D Centronics Interface Cable. 50,51
13242G RS232C Interface Cable (Order 13242-60010) 50-54
13242H RS232C Interface Cable (Order 13242-60011) 50
13242M European Modem Cable (Order 13242-60002) 50,51
13242N RS232C Interface Cable (Order 13242-60001) 50,51,54
13242P RS422 Interface Cable. 50,51,53
13242X RS232C Interface Cable (Order 92218D) 50,51,53
13242Y RS232C Interface Cable (Order 13242-60005) 50,53
13269A HP 85/86/87 Carrying Case 95
13269BB HP 150 II Carrying Case 95
13269C HP 150 & 9121S/D Carrying Case 95
13269K Carrying Case for The PORTABLE 95
13269P Carrying Case 95
13269T 9121S/D Carrying Case . . . 95
13269TT ThinkJet Carrying Case 15,95
13269V System SLIMLINE for The PORTABLE. 95,108
13269W ATTACHE for The PORTABLE 95,108
13269Y 9807A Carrying Case. 95
13269Z Plush Leather Briefcase for The PORTABLE 95,108
13356A 120 Mb Disc Pack 69
13394A 50 Mb Disc Pack 69
1530-0697 9871A Print Discs 22
1530-1810 9871A Print Discs 22
1530-1811 9871A Print Discs 22
1530-1851 9871A Print Discs 22
1530-1895 9871A Print Discs 22
1530-2022 9871A Print Discs 22
1535-3914 Wide Nylon Ribbon 18
15C Programmable Scientific Calculator 102
16C Programmable Calculator for Computer Science. 102
172155M RS232C Interface Cable. 54
17255D RS232C Interface Cable. 50-54
17255F RS232C Interface Cable. . . 54
17255M RS232C Interface Cable. 50-52,54
17355D RS232C Interface Cable . . 55
17355M RS232C Interface Cable. 24,49,53-55
17440A Graphics Enhancement Cartridge 26
17455A RS232C Interface Cable. 50,54
17525A B-Size Media Handling Kit 37
17526A A3-Size Media Handling Kit 37
17700T Transparency Plotter Film 30
17701T Transparency Plotter Film 30
17702T Transparency Plotter Film 30
17703T Transparency Plotter Film 30

17715TK A-Size Transparency Film Kit 38
17716TK A4-Size Transparency Film Kit 38
17717TK A-Size Transparency Film Kit 38
17718TK A4-Size Transparency Film Kit 38
17725T Fiber-tip Transparency Pens 33
17726T Fiber-tip Transparency Pens 33
17727T Fiber-tip Transparency Pens 33
17728T Fiber-tip Transparency Pens 33
17729T Fiber-tip Transparency Pens 33
17731T Fiber-tip Transparency Pens 33
17732T Fiber-tip Transparency Pens 33
17733T Fiber-tip Transparency Pens 33
17735T Fiber-tip Transparency Pens 33
17737T Fiber-tip Transparency Pens 33
17739T Fiber-tip Transparency Pens 33
17741T Fiber-tip Transparency Pens 33
17742T Fiber-tip Transparency Pens 33
17743T Fiber-tip Transparency Pens 33
17745T Multi-color Fiber Tip Transparency Pens 33
17746T Multi-color Fiber Tip Transparency Pens 33
17747T Multi-color Fiber Tip Transparency Pens 33
17748T Multi-color Fiber Tip Transparency Pens 33
17749T Multi-color Fiber Tip Transparency Pens 33
17750T Multi-color Fiber Tip Transparency Pens 33
17800P Non-glossy Plotter Paper . .30
17801P Non-glossy Plotter Paper . .30
17802P Non-glossy Plotter Paper . .30
17803P Non-glossy Plotter Paper . .30
17804P Non-glossy Plotter Paper . .30
17805P Non-glossy Plotter Paper . .30
17806P Non-glossy Plotter Paper . .30
17807P Non-glossy Plotter Paper . .30
17820PK A-Size Paper and Pen Kit 38
17821PK A4-Size Paper and Pen Kit 38
17825P Fiber-tip Paper Pens 33
17826P Fiber-tip Paper Pens 33
17827P Fiber-tip Paper Pens 33
17828P Fiber-tip Paper Pens 33
17829P Fiber-tip Paper Pens 33
17831P Fiber-tip Paper Pens 33
17832P Fiber-tip Paper Pens 33
17833P Fiber-tip Paper Pens 33
17835P Fiber-tip Paper Pens 33
17837P Fiber-tip Paper Pens 33
17839P Fiber-tip Paper Pens 33
17841P Fiber-tip Paper Pens 33
17842P Fiber-tip Paper Pens 33
17843P Fiber-tip Paper Pens 33
17845P Multi-color Fiber-tip Paper Pens 33
17846P Multi-color Fiber-tip Paper Pens 33
17847P Multi-color Fiber-tip Paper Pens 33
17848P Multi-color Fiber-tip Paper Pens 33
17849P Multi-color Fiber-tip Paper Pens 33
17850P Multi-color Fiber-tip Paper Pens 33
17855A RS422 Interface Cable. . . .55
17900G Glossy Plotter Paper 30
17901G Glossy Plotter Paper 30
17902G Glossy Plotter Paper 30
17903G Glossy Plotter Paper 30
18C Business Consultant Calculator 101

2

22219Z Centronics Cable VI
2225A HP-IB ThinkJet Printer 116
2225A/B/C/D/P ThinkJet Printers . . .11
2225C Parallel (Centronics) ThinkJet Printer 116
2225D RS232C ThinkJet Printer . .116
2225P ThinkJet Printer VI
2227A QuietJet Plus Printer . . . VI,11
2228A QuietJet Printer VI,11
22832-93001 Learning COBOL II/ 3000 Student Workbook 123
22832A Learning COBOL II/ 3000 123
22833B Using HP Decision Support Graphics/3000 123
22835-60001 Self-paced Booklets. 123
22835B HP 3000: A Guided Tour 123
22840B Using HPDRAW. 123
22842-60001 Self-paced Booklets. 123
22842A Programming in Transact/ 3000 123
22843-60001 Self-paced Booklets. 123
22843B Using Dictionary/3000 . . .123
2393A Graphics Terminal 117
2394A Data Entry Terminal. 117
2397A Color Graphics Terminal. . .117
24540A Serial/Parallel Interface . .105
24541A Dual RS232/422 Interface 105
24542D Centronics Interface Cable 51-53
24542G RS232C Interface Cable. 51-54
24542H RS232C Interface Cable. 51,54
24542M PC Cable. 51
24550A Internal 1200 Baud Modem 131
26030A Bidirectional Tractor Feed Mechanism 16
26030E Triple Bin Feeder 16
2603A Daisywheel Printer. 16
27506F Advancewrite I 113
27507F Advancewrite II. 113
27508F Advancewrite III 113
28641A ThinMAU 44
28C Scientific Professional Calculator IX,101

3

30062-60018 RS232 Extension Cable. 49
30062-60023 HP 3000 Modem Cable. 56
30062B Opt. 001 HP 3000 Modem Cable (Order 30062-60023). 56
30062B HP 3000 Modem Cable (Order 30062-60022). 56
30062C Opt. 001 RS232 Extension Cable (Order 92215F) 49
30062C RS232C Extension Cable (Order 31391A) 49
30062C Opt. 002 RS232 Extension Cable (Order 92215T) 49
30062D RS232 Extension Cable (Order 30062-60018). 49
30063-60022 HP 3000 Modem Cable. 56
30152-60001 RS232 Extension Cable. 49
30152A RS232 Extension Cable (Order 30152-60001). 49
30153-60001 RS232 Extension Cable. 49
30153A RS232 Extension Cable (Order 30153-60001). 49
30154-60001 RS232 Extension Cable. 49
30154A RS232 Extension Cable (Order 30154-60001). 49
30241A LAN MAU & LAN Coaxial Cable Tap 43
30241B Additional LAN Coaxial Cable Tap 43
31391A RS232C Cable. 132
31391B RS232 Extension Cable. . .49
32120-90020 Learning HPWORD Part 1. 123
32120-90021 Learning HPWORD Part 2. 123
33406A PCLPak 4
33406B PCLPak 4
33411AC/AD LaserJet Soft Fonts . . .8
33411AE LaserJet Soft Font 8
33411AF LaserJet Soft Font 8
33411DA LaserJet Soft Font 8
33411EA LaserJet Soft Font 8
33412AC LaserJet Soft Font 8
33412AD LaserJet Soft Font 8
33412AE LaserJet Soft Font 8
33412AF LaserJet Soft Font 8
33412DA LaserJet Soft Font 8
33412EA LaserJet Soft Font 8
33412RA LaserJet Soft Font IV,8
33412SA LaserJet Soft Font IV,8
33412TA LaserJet Soft Font IV,8
33412UA LaserJet Soft Font IV,8
33443A 1 M-byte Memory Board . . IV
33444A 2 M-byte Memory Board . . IV
33445A 4 M-byte Memory Board . . IV
35154D The Speller 112
35159A HelpLine Call Certificates. 131
35177M JetStart™ 14
35178A Vectra PC Carrying Case 95
35178M Laserstart 4
35179M Pkg. with Laserstart & 92219M Cable 4
35184A SIDEWAYS™ 112
35184B Plotstart VII
35190J LaserControl. 4,113
35199A Vectra PC Rack Mount Shelf 92
35723A HP Touch 105,106,116

4

40210H Port 2 HP-IB Interface . . .116
40210P Port 2 Parallel Interface . .116
40210R Port 2 RS232C Interface 116
40242C RS232C Extension Cable. 55,116
40242D Centronics Interface Cable 52,53,55,116
40242G RS232C Interface Cable 52,53,55,116
40242M U.S./ European Modem Cable 54-56,116
40242P RS422 Direct Connect Cable. 55,116
40242R RGB Video Cable. 56
40242V Composite Video Cable . . .56
40242X RS232C Direct Connect Cable. 55,116
40242Y RS232C EMP Protect Cable. 55,116
40242Z RS232C Modem Bypass Cable. 55
4114-0371 Blank VFU Tape 20
4114-1033 Overlay 39
41CV Advanced Programmable Calculator 102
41CX Advanced Programmable Calculator 102
45310A BASIC Programmer's Library 112
45311A ICON Design System. . . .112
45400D WordStar® 112
45406E Text Charts. 113
45411A Drawing Gallery. 112
45412A VT 100 Terminal Emulator 112
45418A Executive MemoMaker. . .112
45419C Programmer's Tools 112
45420G MemoMaker (SU) 115
45420H MemoMaker (MU) 115
45420V Memomaker/ HP-UX 115
45420W Memomaker/ HP-UX 115
45421A Executive Card Manager/150 112
45424A MultiMate™ 112
45427D WordStar Professional™ 112
45429D WordStar Professional™ Options 112
45431A AdvanceLink 112
45433A Gallery Picture Library Vol. II 112
45435A Touchscreen Programmer's Tools 112
45437A Gallery Collection. 112
45441D Executive Card Manager/ Templates 112
45443A Forms Master. 112
45444A ExecuDesk. 112
45445D BASIC by Microsoft® 112
45446D Compiled BASIC by Microsoft® 112
45447D PASCAL® by Microsoft® 112
45448A COBOL by Microsoft® . . .112
45449D FORTRAN by Microsoft® 112
45450D GW™-BASIC by Microsoft® 112
45452D Lattice® C Compiler 112
45462A Picture Perfect™. 112
45462B Picture Perfect™. 114
45462J Picture Perfect™/ HP-UX. 115
45462V Picture Perfect™/ HP-UX. 115
45463A Diagraph™ 112
45463B Diagraph™ 114
45463J Diagraph™/ HP-UX. 115
45463V Diagraph™/ HP-UX 115
45468D dBase II® 112
45473G Multiplan® (SU)/HP-UX . .115
45473H Multiplan® (MU)/HP-UX . .115
45473V Multiplan®/ HP-UX 115
45473W Multiplan®/ HP-UX. 115
45474D Microsoft® Word. 112
45480B Data Grapher/200 114
45481B Context MBA™. 114
45498A Symphony® 112
45504K Opt. 400 MemoMaker/ Time Management. 112
45513A Charting Gallery. 112

Product number listing of catalog items (continued)

45515G TK!Solver® (SU)/HP-UX 115
45515H TK!Solver® (MU)/HP-UX 115
45515U TK!Solver®/ HP-UX 115
45515V TK!Solver®/ HP-UX 115
45515W TK!Solver®/ HP-UX 115
45516G Financial Management (TK!Solver® Pack) 115
45516V Financial Management (TK!Solver®/HP-UX). 115
45517G Mechanical Engineering (TK!Solver® Pack) 115
45517V Mechanical Engineering (TK!Solver®/HP-UX). 115
45518G Building Design & Construction (TK!Solver® Pack) 115
45518V Bldg. Const. & Design (TK!Solver®/HP-UX). 115
45519G Introductory Science (TK!Solver® Pack) 115
45519V Introductory Science (TK!Solver®/HP-UX). 115
45524G MicroTrak™ (SU)/HP-UX 115
45524H MicroTrak (MU)/HP-UX. . .115
45524J PlotTrak™/ HP-UX. 115
45524U MicroTrak™/ HP-UX 115
45524V MicroTrak™/ HP-UX 115
45524W MicroTrak™/ HP-UX. 115
45530A/B/C HP PC Communicator 122
45537B Graphics Editor/200 114
45538B Text Editor/200. 114
45540A Painter/150 112
45548K Opt. 400 1-2-3® from Lotus™ 112
45549K Opt. 400 Microsoft™ Word 112
45554K Opt. 400 MultiMate. 112
45555K Opt. 400 Executive Card Manager 112
45556D Microsoft® Spell 112
45563A R:Base 5000/150 112
45566A 1-2-3® by Lotus™ Rel. 2.01 112
45569A Chemical/Petrochemical Portfolio 112
45571A HP Draw Figures Portfolio 112
45632A 384K byte RAM Board . . .106
45640A Internal Modem 131
45641B IBM 3278 Emulation Accessory 106
45643A Extended I/O Accessory Card 106,107
45695A Terminator Pair for SRM Coaxial Links 44
45741A Video Extension Cable. . . .49
45742A Video Extension Cable. . . .49
45847-60002 Disc Drive Cable (Order 92220E) 50
45911A HP Graphics Tablet. 105,106
45914A HP-HIL Accessory Card 106
45915A HP-HIL/384K byte RAM board 106
45953A Vectra Assembler 113
45971A 128K byte Memory Expansion Kit. 105
45973A 0.5M byte Memory Expansion Card 105
45974A 1M byte Memory Expansion Card 105
45986A HP Vectra PC Security Lock 105
45987A 80287 Numeric Co-processor 105
46020-60001 HP-HIL Cable 105
46060A HP Mouse 105,106,116
46080A HP-HIL Extension Module. 105
47956A AutoCAD™ 112

5

5061-1340 264X Terminal Connector Kit. 46
5061-2401 Multipoint Connector Kit 46
5061-2412 262X Terminal Connector Kit. 46
5061-3858 9-pin Male RS232C Connector Kit. 46
5061-5033 Rollerball Drafting Pens 36
5061-5034 Rollerball Drafting Pens 36
5061-5035 Rollerball Drafting Pens 36
5061-5036 Rollerball Drafting Pens 36
5061-5037 Multi-color Pkg. of Rollerball Drafting Pens 36
5061-5080 Fiber-tip Pen Carousel 39
5061-7562 Vellum/Paper Disposable Drafting Pens. 34
5061-7563 Vellum/Paper Disposable Drafting Pens. 34
5061-7564 Vellum/Paper Disposable Drafting Pens. 34
5061-7565 Vellum/Paper Disposable Drafting Pens. 34
5061-7566 Multi-color Pkg. of Disposable Drafting Pens. 34
5061-7572 Vellum/Paper Disposable Drafting Pens. 34
5061-7573 Vellum/Paper Disposable Drafting Pens. 34
5061-7574 Vellum/Paper Disposable Drafting Pens. 34
5061-7575 Vellum/Paper Disposable Drafting Pens. 34
5061-7576 Multi-color Pkg. of Disposable Drafting Pens. 34
5061-7577 Start-up Pen Kit 36
5061-7578 Pkg. of 4 adapters/ pen cap assemblies 35,39
5061-7605 Vellum/Paper Disposable Drafting Pens. 34
5061-7606 Vellum/Paper Disposable Drafting Pens. 34
5061-7607 Vellum/Paper Disposable Drafting Pens. 34
5061-7608 Vellum/Paper Disposable Drafting Pens. 34
5061-7610 Polyester Film Disposable Drafting Pens. 35
5061-7611 Polyester Film Disposable Drafting Pens. 35
5061-7612 Polyester Film Disposable Drafting Pens. 35
5061-7613 Polyester Film Disposable Drafting Pens. 35
5061-7615 Vellum/Paper Disposable Drafting Pens. 34
5061-7616 Vellum/Paper Disposable Drafting Pens. 34
5061-7617 Vellum/Paper Disposable Drafting Pens. 34
5061-7618 Vellum/Paper Disposable Drafting Pens. 34
5061-7619 Vellum/Paper Disposable Drafting Pens. 34
5061-7620 Vellum/Paper Disposable Drafting Pens. 34
5061-8119 Refillable Drafting Pen 35
5062-0096 Boots for Fiber-tip Pen Carousels 39
5062-0097 Boots for Drafting Pen Carousels 39
5062-0098 Boots for Fiber-tip/ Rollerball Pen Carousels 39
5062-0099 Boots for Drafting Pen Carousels 39
5062-1515 Gritwheel Brush. 39
5062-1576 DraftMaster Adjustable Pen Carousel 36,39
5081-1190 Paper Writing Pens 33
5081-1191 Paper Writing Pens 33
5081-1192 Paper Writing Pens 33
5081-1193 Paper Writing Pens 33
51605B Print Cartridge 15
51605G Print Cartridge 15
51605R Print Cartridge 15
51630A Z-Fold JetPaper 15
51630B Z-Fold Wide JetPaper 15
51630C Z-Fold JetPaper 15
51630D Z-Fold Wide JetPaper 15
51630F Z-Fold Wide JetPaper. 15
51630H Z-Fold Wide JetPaper 15
51630J Cut Sheet Jet Paper 15
51630K Cut Sheet A4-Size JetPaper 15
51630L Ink-Jet Labels. 14,15
5955-7680 LAN cable accessories installation manual 42
5955-7681 LAN troubleshooting manual. 42
5957-4622 Data Communications book 119
5957-4623 HP-to-IBM Communications book 119
5957-4624 LAN Connection book 42,119
5957-6979 Business Graphics book 120
5957-8407 Word Proccessing Ruler 17
5958-0210 Documentation Binder & Slip Cover. 126

6

68327F HP Draw Figures Portfolio 113
68328F R:Base System V™ 113
68330F Executive MemoMaker . . .113
68331F Executive Card Manager 113
68332F Executive Spreadsheet. . .113
68333F AdvanceLink 2392 113
68335F Executive Card Manager/ Templates 113
68336F R:Base 5000™ 113
68339F Symphony® by Lotus 113
68340F 1-2-3™ by Lotus® 113
68341F WordStar® 2000 113
68342F WordStar® 2000 Plus 113
68345F WordStar® 113
68346F WordStar® Professional . .113
68350F Charting Gallery 113
68351F Drawing Gallery 113
68352F Gallery Collection 113

7

7120-7105 Individual Blank Key Overlay 39
7121-0988 Pkg. of Overlays 39
7440A Opt. 001 Graphics Plotter. . .26
7440A Opt. 002 Graphics Plotter 26,116
7475A Opt 001 Graphics Plotter. . .27
7475A Opt. 002 Graphics Plotter. . .27

8

8120-1348 Power Cord 47
8120-1351 Power Cord 47
8120-1369 Power Cord 47
8120-1378 Power Cord 47
8120-1689 Power Cord 47
8120-2104 Power Cord 47
82033A Battery Pack for 82162A 103
82037A Reserve Power Pack for 82162A 103
82044A Security Cable 103
82045A Blue-printing Thermal Paper. 23,103
82059D AC Adapter/Recharger. . .103
82066B AC Adapter/Recharger. . .103
82104A Magnetic card reader. . . .103
82111A HP-41 Soft Case 103
82120A Multipurpose Rechargeable Battery Pack 103
82143A Thermal Printer Plotter. . .103
82151A Pkg. of 2 Module Holders 103
82153A Optical Barcode Reader. 103
82160A HP-IL Series 40 Interface Module. 103
82161A Digital Cassette Drive. . . .103
82162A HP-IL Thermal Printer Plotter 103
82164A HP-IL/RS232C Interface 103
82165A HP-IL/GPIO Interface. . . .103
82166C HP-IL Interface Kit 103
82167A HP-IL Cable (0.5m) 103,106
82167A/B/D HP-IL Interface Cables 48-50,52,54
82167B HP-IL Cable (1m) . . . 103,106
82167D HP-IL Cable (5m). 103
82169A HP-IL/HP-IB Interface 103,110
82172A 50 Blank Overlays 103
82175A Black-printing Thermal Paper. 23,101,103
82176A Box of 10 Mini Data Cassettes 65,67,103
82177A Blank Labels for Mini Data Cassettes 103
82180A Extended Functions/ Memory Module. 103
82181A Extended Memory Module. 103
82182A Time Module 103
82183A Extended I/O Module 103
82184A Plotter Module 103
82199A ThinkJet Battery Pack 15
82200A HP-41 Touchpad 103
82240A Infrared Printer. 101
82241A Infrared Printer Adapter . .101
82400A Hand-pull card reader . . .103
82401A HP-IL Interface. 103
82402A Dual HP-IL Adapter 103
82420A 4K RAM Memory Module. 103
82477A Link 103
82478A Forth/Assembler/ Debugger. 103
82479A Data Aquisition Pac 103
82480A Math 103
82481A AC Steady Stat Circuit Analyst. 103
82482A Finance 103
82483A Surveying. 103
82484A Curve Fitting 103
82485A Text Editor 103
82488A Data Communications . . .103
82489A Stat Pac. 103
82490A Translator. 103
82696J Device I/O Library/ HP-UX. 115
82707A 30 Blank Magnetic Card Pac 103
82715A 5 Notebook Card Holders 103

82725A Bar code Reader Module....103
82801A Graphics Presentations ..111
82802A BASIC Training....111
82807A Statistical Analysis Multi Pac....111
82812A Electronics Engineering Multi Pac....111
82815J DataComm....115
82816A Text Editing....111
82820A Standard Pac....111
82821A Data Communications ...111
82823A WORD/80....111
82824A FILE/80....111
82830A VisiCalc® PLUS....111
82831A Graphics Presentations ..111
82832A BASIC Training....111
82836K Opt. 400 REFLECTION 1™....112
82837A Statistical Analysis MultiPac....111
82838A Linear Programming....111
82841A Math....111
82842A Electronics Engineering Multi Pac....111
82846A Personal Productivity Pac....111
82856J HP-UX Development System....115
82857J HP-UX C Compiler....115
82858J FORTRAN Compiler/ HP-UX....115
82859J Pascal Compiler/HP-UX ..115
82860J HP-UX BASIC....115
82862K Opt. 400 BASIC by Microsoft®....112
82863K Reflection 1™....112
82903A Plug-in Module HP 85A ..110
82908A Plug-in Module HP 85B/86/87....110
82909A Plug-in Module HP 85/86/87....110
82928A System Monitor HP 85/86/87....110
82929A Programmable ROM Drawer HP 85/86/87....110
82931A Continuous Roll Thermal Paper....23
82933A HP 83/85 Carrying Case ..95
82935A Literature Binder....110
82936A ROM Drawer HP 85/86/87....110
82937A HP-IB Interface....110
82938A HP-IL Interface....110
82939A Serial (RS232C) Interface....110
82940A GPIO Interface....110
82941A BCD Interface....110
82948A HP 83/85 Dust Cover....94
82949A Printer Interface....110
82954A Continuous Roll Thermal Paper....23
82956A Keyboard Overlays....110
82957A Centronics Interface Cable....52
82973A HP-IL Interface Card....106,107
82977A/B Right-angle HP-IB Cables....48
82981A 128K Memory Drawer ...107
82982A Software Drawer....107
82984A 128K Memory Card....107
82988J Technical Basic Upgrade Kit....115
82989J Technical Basic (ROM)...115
88014B Replacement Battery 107
88103A File Manager....111
88104A File Manager....111
88140LC Certified Cartridges (16-track)....65
88140SC Certified Cartridges (16-track)....65
88500A Disc/Tape Interface 105

9

9162-0050 Individual Digital Cassette....65
9164-0105 Single-sided 8-in. Discs (10)....60
92150D/E/F/P Magnetic Tapes 70
92150K Magnetic Tape Reel Labels....70
92150L Mag Tape Color/ Numbering Kit....71
92150M Mag Tape Sense Markers....71
92150Q Easy Load II Self-threading Cartridges....70
92150T Transport/Carrying Case...71
92150X Magnetic Tape Take-up Reels....71
92151C Multistrike Ribbon Cartridge....18
92151D Fabric Ribbon Cartridge...18
92151H Multistrike Ribbon Cartridge....18
92153A/B/C/D/E Metalized 2601A Printwheels....21
92153U/V/W Metalized 2601A Printwheels....21
92154B Replacement Print Head ..20
92154G Replacement Print Head ..20
92154N Print Head....20
92154P Print Head....20
92155A Ribbon Cartridges 19
92155B Ribbon Cartridges 19
92155L Ribbon Cartridges 19
92155M OCR Ribbon Cartridge....19
92156A Ribbon Cartridges 19
92157A Fanfold Printer Paper....19
92157B Fanfold, Punched Printer Paper....19
92157C Fanfold, Microperforated Printer Paper....19
92157D Fanfold Printer Paper....19
92158A Impact Printer Ribbon Cartridge....18
92158M Impact Printer Ribbon Cartridge....18
92160A Continuous Roll Thermal Paper....23
92160B Continuous Roll Thermal Paper....23
92160M Fanfold Thermal Paper ...23
92160N Fanfold Thermal Paper....23
92161C Continuous Roll Thermal Paper....23
92161E Page-perforated Roll Thermal Paper....23
92161N Continuous Roll Thermal Paper....23
92161P Continuous Roll Thermal Paper....23
92161R Page-perforated Roll Thermal Paper....23
92162-0027 Head Alignment Tape....71
92164A/B Small Isolation/ Regulators....135
92165A/B/C Surge Suppressors VIII,136
92166E Plotter Sound Enclosure.... VII, 89
92167F Data Cartridge Tray 65
92167L High-density Data Cartridge Albums....67
92167M Storage Binder for Mini Data Cartridges....67
92167N Storage Binder Insert....67
92167V Printwheel Storage Album....20
92167W Printwheel Storage Album....20
92169D/E/F Leather Calculator Cases for HP 18C/28C 104
92169G Carrying Case for Infrared Printer....101
92169G/H/J Carrying Cases for Infrared Printer....IX
92169H Carrying Case for Infrared Printer....101
92169J Carrying Case for Infrared Printer....101
92171A Clamp-on Copy Holder....93
92171B Easel Copy Holder....93
92171C Keyboard Drawer Park....92,116,117
92171E Footrest....93
92171G Printout Paper Catcher ...20
92171J Keyboard Park ...92,116,117
92171L Locking Bar 126
92171M Documentation Storage Rack....126
92171S Desktop Printer/ Plotter Stand....17,93
92171T Display Turntable 93
92171X Terminal-top ThinkJet Printer Stand....14,15,116
92171Z Vectra PC Keyboard Park....92
92172F Data Lock....96
92172G Plate Lock Security Kit....96
92172H Screw Lock Security Kit ..96
92174A/B/C/D HP Data Binders ..85
92174E/F/G/H HP Data Binders ..85
92174J/K HP Data Binders....85
92175A Static control mat....99
92175B Static control mat....99
92175C Static control mat....99
92175D HP PM VAC (vacuum cleaner)....10
92175E Vacuum Bags/Filter 10
92175F Replacement Stretch Hose....10
92175G Replacement Cord....10
92175H Replacement Crevice Tool/ Brush....10
92175K Replacement Rubber Gooseneck 10
92175T Tabletop Anti-static Mat ..99
92176A/C Anti-static Carpets 99
92176B/D Anti-static Carpets 99
92176S Staticide™ Spray 98
92176W Staticide™ Wipes 98
92177B Sound Absorbing Pad ...89
92177J Extra Paper Tray for 26010D....20
92177K Extra Paper Tray for 26010D....20
92177L Extra Paper Tray for 26010D....20
92177M Extra Paper Tray for 26010D....20
92177N Extra Paper Tray for 26010D....20
92177Q PersonalFeeder for 2601A....17
92177R PersonalFeeder for 2602A....17
92177S Desktop Calculator Stand....104
92177T Short Pen Organizer....37
92177U Long Pen Organizer....37
92177V Personal Pen Organizer ..37
92177W Graphics Organizer for 7440A....26,38
92177X Graphics Organizer for 7475A....27,38
92178A/B/C 25-pin RS232C Connector Kit....46
92178S RS232C ABC Switch 24
92179A/B/C/D/G/H Cut-to-length Cables....46
92180A Toner for HP 2680/2689A...9
92180D Drum Kit....9
92181A Disposal Containers....9
92182A Bottle Carrier....9
92182D Developer....9
92183A Splicing Tape....9
92184A Continuous Fanfold Paper ..9
92185A Toner for HP 2687A/ 2688A....9
92185B Cleaning Pads....9
92185D Ozone Filters....9
92185E OPC Belts....9
92185T Input Tray....9
92186A/B/C/D/E 2687A Character Font Cartridges....10
92186F/G/H/J/K 2687A Character Font Cartridges....10
92186L/M/N/P/Q 2687A Character Font Cartridges....10
92186R/S/T 2687A Character Font Cartridges....10
92187A 2688A Software Fonts 9
92187B 2688A Software Fonts 9
92187C 2688A Software Fonts 9
92187D 2688A Software Fonts 9
92188A/B/E/G/H 2934A Plug-in Character Style Cartridges....22
92188J/K/M/N/R/T 2934A Plug-in Character Style Cartridges....22
92190A Double-sided 5.25-in. Discs (10)....59
92190L Double-sided 5.25-in. Discs (50)....59
92190N Double-sided 5.25-in. Discs (100)....59
92190X High-capacity Double-sided 5.25-in. Discs (10)....59
92191A Single-sided 3.5-in. Discs (10)....59
92191D Desktop File for 3.5-in. Discs....61
92191E FlexFiles for 3.5-in. Discs....62
92191F Portable Album for 3.5-in. Discs....63
92191G (European) Hanging File Pages for 3.5-in. Discs....64
92191H Library Album for 3.5-in. Discs (Replaces 92191C) 63
92191L Library Album Pages for 3.5-in. Discs....63
92191M Micro carrying case for 3.5-in. Discs....64
92191P (U.S.) Hanging File Pages for 3.5-in. Discs....64
92191Q Compact File for 3.5-in. Discs....61
92191R Roll-top File for 3.5-in. Discs....61
92191T Micro disc case for 3.5-in. Discs....64
92192A Double-sided 3.5-in. Discs (10)....59
92192C Tape Cartridge Magazine....66
92192N Double-sided 3.5-in. Discs (100)....59
92192R Multi-colored Disc Labels (250)....59
92193C Printwheel Clean Kit....21
92193D Printwheel Clean Kit Refill....21
92193F Magnetic Head Cleaning Solution....72

Product number listing of catalog items (continued)

92193G Cleaning Gloves 72
92193H Magnetic Head Clean Kit 72
92193L Head Cleaning Kit 72
92193M Master Clean Kit 72
92193T Platen Cleaner Pak™ 17
92193V Video Clean Kit 97
92193W Lint-free Wipes 72
92193Y Compressed Air Cleaner . . 72
92194A Compact File for 5.25-in. Discs 61
92194B Compact File for 8-in. Discs 61
92194C Desktop File for HP Digital Cassettes 67
92194D Desktop File for Mini Data Cartridges 67
92194E FlexFiles for 5.25-in. Discs 62
92194F FlexFiles for 8-in. Discs . . . 62
92194G Portable Album for 5.25-in. Discs 63
92194H Portable Album for 8-in. Discs 63
92194J Easel Binder Kit 63
92194K Easel Binder Kit 63
92194L 3-ring Binder Pages for 5.25-in. Discs 63
92194M 3-ring Binder Pages for 8-in. Discs 63
92194N Roll-top File for 5.25-in. Discs 61
92194P (U.S.) Hanging File Pages for 5.25-in. Discs 64
92194Q (U.S.) Hanging File Pages for 8-in. Discs 64
92195A Double-sided 8-in. Discs (10) 60
92195F Double-sided 8-in. Discs (10) 60
92195L Pkg. of 5 FlexFiles/50 8-in. DS Discs 60
92195P (European) Hanging File Pages for 5.25-in. Discs 64
92195Q (European) Hanging File Pages for 8-in. Discs 64
92198A HP-HIL 80-column Interface 103
92199C/D Cable Covers 47
92199F Cable Management Kit . . . 47
92203R Fixed-priced Repair Charge (Non-warranted Modems) 129
92203X HP Express Service (for Hayes Smartmodems) 129
92204F Black Jack™ 131
92204J MicroPatch (Male to Male) 128
92204K MicroPatch (Male to Female) 128
92204L MicroPatch (Female to Female) 128
92204N Datatracker 128
92204P Cable Test Adapter 128
92204Q MiniTracker 128
92204R MiniTracker Plus 128
92204S Universal Cable 128
92204T Pulse Tracker 128
92204U Additional Mini Clip Leads 128
92205A/C Hayes Smartmodem 1200™ 129
92205B Hayes Smartmodem 2400™ 129
92205G Security Modem 130
92205H MICOM® Modem 131
92205J Anderson Jacobson Modem 130
92205T RS232C Dual ABC Switch 24
92205V MicroSpooler™ 64 132
92205W MicroSpooler™ 128 132
92205Y HP-IB ABC Switch 24
92206A Mini Data Cartridge Rack 67
92206D Rigid Disc Rack 69
92206T Magnetic Tape Rack 70
92207A Anti-glare Filter 97
92207C Anti-glare Filter 97
92208A Mobile PC Centre 84
92209E/F/G/K HP Workstation/ Managerial Chairs 92
92209S/L HP Workbench Chairs . . 92
92210A Compact Workstation Table 80
92210AA Professional Workstation 79
92210B Standard Workstation Table 80
92210BB Administrative Support Workstation 79
92210C Workstation Table 80
92210CC Team Workstation 79
92210D Workstation Table 80
92210E Work Surface Extention (Return) 80
92210F Desktop Storage Shelf 81
92210G Desktop Storage Shelf 81
92210H Standup Printer/Terminal Stand 81
92210L Heavy-duty Double-wheel Casters 81
92210N Mobile Drawer Unit 81
92210P Printer Stand 81
92210Q Suspended Drawer Unit . . 81
92210T Mobile Workstation Table . . 81
92210V Workstation Tabletop Connector 81
92210W Task Light Unit 80
92210Z Desktop Wide- flipper Storage Unit 81
92211B LaserJet Printer Cabinet II,III,4
92211C Design Plus Sound Enclosure Cabinet 78
92211L Design Plus Support Cabinet 78
92211M Design Plus Small Support Cabinet 78
92211N Design Plus Drawer Unit . . 78
92211R Design Plus Mini-rack System Cabinet 78
92211S Rail Kit 78
92211T Filler Panel Kit 78
92213B Design Plus CAD Mini-workstation 78
92214A Design Plus Table 78
92214AA Design Plus One 76
92214B Medium Design Plus Table 78
92214BB Design Plus Two 76
92214C Large Design Plus Table . . 78
92214P Design Plus Universal Support Stand 4,78
92215A RS232 Extension Cable . . . 49
92215F RS232 Extension Cable . . . 49
92215T RS232 Extension Cable . . . 49
92218A PC Cable 50,51
92218B European Modem Cable . . 51
92218C RS232C Interface Cable 50,53
92218D RS232C Interface Cable 50,51,53
92219G RS232 Extension Cable . . . 49
92219H RS232C Interface Cable . . 51
92219J RS232C Interface Cable . . . 52
92219K Centronics Interface Cable 52
92219M RS232C Interface Cable 4,14,52,55
92219N RS232C Interface Cable 53,55
92219Q Modem (Multiplexer) Cable 56
92219R Direct Connect Multiplexer Cable 56
92219S Modem (Multiplexer) Cable 56
92219T RJ-11 (Multiplexer) Cable 56
92219U Adapter Plug for Multiplexer Cables 56
92219Z Centronics Interface Cable 53
9222-0742 7220C/21C, 9872C Dust Cover 94
92220E Disc Drive Cable 50
92220R Right-angle HP-IB Cable . . 48
92221M U.S. Modem Cable 49
92221P RS232C Interface Cable 49,50,52-54
92224A/B HP 3000 ATP Connector Kits 46
92224F RS232C Interface Cable . . 55
92224F/M Female & Male Gender Converters 48
92225A/B HP 3000 ATP Connector Kits 46
92226A HP-IB Extender Connector Kit 46
92227A/B/C/D Connectored ThinLAN Cables 44
92227E/F/G/H Connectored ThinLAN Cables 44
92227J Cut-to-length ThinLAN Cable 44
92227L Crimp-on Style BNC Connectors 44
92227M ThinLAN Tool Kit 44
92227N ThinLAN Tee Connector with Insulating Cover 44
92227P ThinLAN Terminator Pair . . 44
92227Q ThinLAN Loopback 44
92227R ThinLAN Insulating Cover 44
92229A Crimp Tool for ATP Connectors 47
92229B Crimp Tool 42
92230A Wide Nylon Ribbon 18
92230B Chain Train Oil 20
92230C Chain Train Oil 20
92231A 12-Channel VFU Tape Punch 20
92231B Paper Perforator Tape 20
92233A HP-IL System book 119
92233C Pascal book 119
92233D BASIC, 2nd Edition (book) 119
92233F Handheld calculator book 118
92233K Database Systems book 121
92233P Computer Programming book 120
92233S Computer Programming book 120
92233T Computer Programming book 120
92233U Computer Programming book 120
92233V Computer Networks book 120
92233W Database Systems book 121
92233X Computer Graphics book 120
92234D BASIC for Home Computers (book) 119
92234F Computer Logic book 120
92234J Pascal book 119
92234K Operating Systems book 120
92234N Lotus 1-2-3™ book 121
92234P Wordstar® book 121
92234Q MS-DOS™ book 120
92234R Lotus 1-2-3™ book 121
92234S HP 12C book 118
92234T HP 41 book 118
92234U Handheld calculator book 118
92234W HP 11C book 118
92234X RS232 book 120
92234Z Symphony™ book 121
92235A HP 150 book 121
92235D Microsoft® book 121
92235E MultiMate™ book 121
92235F dBASEIII book 121
92235N HP 110 book 121
92235R HP 41 book 118
92235S HP 41 book 118
92235T HP 18C book 118
92235U LaserJet book 121
92235W 18C Pocket Companion . . . IX
92242L/S Data Cartridges 66
92243EA Type Attack™ 112
92243MA Sargon III 112
92248BA Cross Reference Utility 112
92250A 2382A Dust Cover 94
92250B Dust Cover 94
92250C 264X Dust Cover 94
92250F HP 150 Dust Cover 94
92250J HP 86 Dust Cover 94
92250K HP 150 II Dust Cover 94
92250N 7470A Dust Cover 94
92250P 9816 Dust Cover 94
92250T 82905A/B Dust Cover 94
92250V ThinkJet Dust Cover . . . 15,94
92250W QuietJet Plus Dust Cover 15,94
92250X QuietJet Dust Cover . . . 15,94
92251A 82901M Dust Cover 94
92251B 82902M Dust Cover 94
92251C 2631 Dust Cover 94
92251D 9121S/D Dust Cover 94
92251E 2392A/94A Dust Cover 94,116
92251F 9807A Dust Cover 94
92251P HP 150 II "Stacked" Dust Cover 94
92252A/B/C/F/G Plastic 2601A Printwheels 21
92252H/J/K/L Plastic 2601A Printwheels 21
92253A/B/C Thick Backbone Coax Cables 42
92253D/E/F/G/H Thick Backbone Coax Cables 42
92253J Pkg. of 4 N-connectors . . . 42
92253K Pkg. of 2 Barrel Connectors/ 2 Barrel Insulators . 42
92253L 1 Non-grounded/Grounded Terminator & Terminal Insulator . 42
92254A/B/C/D AUI Cables 43
92254E/F/G/H AUI Cables 43
92255A/B Cut-to-length AUI Cables 43
92255C AUI Cable Connector Kit . 43
92256A LAN Coaxial Cable Installation Tool Kit 42
92256C LAN MAU & Tap Installation Tool Kit 43
92256D AUI Wallplate Kit 43
92256E Surge Protector 42
92257B Loopback Hood 43
92259A Vectra PC Dust Cover 94
92259B Vectra PC Dust Cover 94
92259C LaserJet/LaserJet Plus Dust Cover 4,94
92259D 7090A Dust Cover 94

92259G LaserJet Series II Dust Cover IV,94
92261A Print Cartridge 15
92261D ThinkJet Accessory Kit. . . .12
92261G QuietJet/QuietJet Plus Paper Catcher 13,15
92261K Z-Fold JetPaper 15
92261N Z-Fold JetPaper 15
92261P QuietJet Plus Accessory Kit (with 11-in. paper). 13
92261S ThinkJet Printer Stand 13,15
92261T QuietJet Plus Printer Stand 13,15
92261U QuietJet Printer Stand 13,15
92261X QuietJet Plus Accessory Kit (with 12-in. paper). 13
92262A/B/D/E/F/G USASCII Printwheels 22
92266A Extended-use Battery Charger 104
92266B Nickel Cadmium Batteries 104
92267A High-resolution Bar Code Wand 103
92267B Medium-resolution Bar Code Wand 103
92268A/B/C/D StarLAN Cables VIII,45
92270A/C/D/E/F/G 2603A Printwheels 16
92270H/J/K/Q/R 2603A Printwheels 16
92271A Multistrike Ribbon Cartridge 16
92271B 2603A Accessory Kit 16
92271E Continuous Feed Fabric Ribbon 16
92272A Workstation Storage Cabinet 126
92272A/B/C/D/E HP Storage Cabinets 88
92272D Magnetic Tape Storage Cabinet 71
92272F Library Tape Storage Rack 71,88
92272G Hanger Bar (Cabinet Accessory). 87
92272H Fixed Shelf (Cabinet Accessory). 87
92272J Oak Top (Cabinet Accessory). 87,126
92272K HP Data Binder Handles 85,87
92272L HP Data Binder Handles 85,87
92272M Mobile File Unit 84
92272N Compact Mobile File Unit 84
92277A/B/C/D Power Line Conditioners 135
92277E/F/G/H Power Line Conditioners 135
92277J/K/L/M/N/P Power Line Conditioners 135
92282A Toner for LaserJet 2000 . . . V
92282B Standard Paper Tray V
92282C Legal Paper Tray V
92282D Ledger Paper Tray V
92282E Executive Paper Tray V
92282F Metric A4 Paper Tray V
92282G Metric A3 Paper Tray V
92282P Pkg. of four Toner Disposal Boxes V
92285A EP Toner Cartridge 3
92285B Extra Paper Tray 3
92285C Extra Paper Tray 3
92285D Metric A4 Paper Tray 3
92285E Metric B5 Paper Tray 3
92285F Forward Collator 3
92285G EP Toner Cartridge 3
92285J Overhead Transparencies . . .3
92285K Self-adhesive Labels 3
92285L Self-adhesive Labels 3
92285M Self-adhesive Labels 3
92285P Plug-in Cartridge Font Organizer. III,V,3
92285Q Replacement Output Tray. . .3
92285R Replacement Auxiliary Tray 3
92285S Replacemment LaserJet Manual Input Tray 3
92285T Service Kit 3
92286A/B/C/D LaserJet Cartridge Fonts 5
92286E/F/G/H LaserJet Cartridge Fonts 5
92286J/K/L/M/N LaserJet Cartridge Fonts 6
92286P/Q/R/T LaserJet Cartridge Fonts 6
92286U/V LaserJet Cartridge Font . .7
92286X/Y/Z LaserJet Cartridge Fonts 7
92287B Letter Size Paper Tray 4
92287C Legal Size Paper Tray 4
92287D Metric A4 Size Paper Tray . .4
92287E Metric B5 Size Paper Tray . .4
92290M/N/P HP Executive Chairs 91
92295A EP Toner Cartridge III
92295B Standard Paper Tray III
92295C Legal Paper Tray III
92295D Metric A4 Paper Tray III
92295E Executive Paper Tray III
92295G Dust Cover for LaserJet Series II III
92295R Replacement Top Cover. . . III
92295S Replacement Top Cover. . . III
92299A MicroManager™ Floor Unit 82
92299B MicroManager Standard Module. 82
92299C MicroManager Pull-out Shelf Module 82
92299D MicroManager Keyboard Drawer Module 82
92299E MicroManager Compact PC Workstation Kit. 82
92299F MicroManager Compact PC Workstation Kit. 82
92299G MicroManager Plotter Station 83
92299J MicroManager Side Tray. . .83
92299K MicroManager Copy Holder 83
92299L MicroManager Paper Refold Guide 83
92299M MicroManager Paper Catcher Basket 83
9260-0579 Refillable Drafting Pen 35
9260-0588 Refillable Drafting Pen 35
9260-0596 .75-oz. Drafting Ink, Black 39
9260-0741 Refillable Drafting Pen 35
9260-0742 Refillable Drafting Pen 35
9260-0743 Refillable Drafting Pen 35
9260-0744 Refillable Drafting Pen 35
9270-0479 Continuous Roll Thermal Paper. 23
9270-0488 Continuous Roll Thermal Paper. 23
9270-0605 Page-perforated Roll Thermal Paper. 23
9270-0607 Page-perforated Roll Thermal Paper. 23
9270-0640 Fanfold Thermal Paper. 23
9270-0642 Fanfold Thermal Paper. 23
9270-0643 Fanfold Thermal Paper. 23
9270-0664 Continuous Roll Thermal Paper. 23
9270-0680 Continuous Roll Thermal Paper. 23
9270-0682 Continuous Roll Thermal Paper. 23
9280-0218 80-Column Printer Paper. 19
9280-0525 Polyester Film 31
9280-0526 Polyester Film 31
9280-0527 Non-glossy Plotter Paper. 30
9280-0528 Non-glossy Plotter Paper. 30
9280-0529 Vellum 31
9280-0530 Vellum 31
9280-0587 Non-glossy Plotter Paper. 30
9280-0590 Non-glossy Plotter Paper. 30
9280-0591 Polyester Film 31
9280-0592 Polyester Film 31
9280-0593 Vellum 31
9280-0594 Vellum 31
9280-0597 Tracing Bond 31
9280-0598 Tracing Bond 31
9280-0599 Tracing Bond 31
9280-0600 Tracing Bond 31
9280-0601 Vellum 31
9280-0602 Vellum 31
9280-0603 Vellum 31
9280-0604 Vellum 31
9280-0605 Polyester Film 31
9280-0606 Polyester Film 31
9280-0607 Polyester Film 31
9280-0608 Polyester Film 31
9280-0618 Blank Roll Paper 30
9280-0619 Blank Roll Paper 30
9280-0633 Polyester Film 31
9280-0634 Polyester Film 31
9280-0635 Vellum 31
9280-0636 Vellum 31
9280-0637 Blank Roll Paper 30
9280-0638 Blank Roll Paper 30
9280-0705 72-Column Printer Paper. 19
9280-0728 Non-glossy Plotter Paper. 30
9280-0730 Polyester Film 31
9280-0731 Vellum 31
9280-0732 Polyester Film 31
9280-0733 Vellum 31
9280-0734 Non-glossy Plotter Paper. 30
9281-0401 Continuous Roll Thermal Paper. 23
9282-0069 HP 3000 Documentation Binder 126
9282-0520 HP 3000 Documentation Binder 126
9282-0531 Nylon Ribbon. 18
9282-0543 Wide Nylon Ribobon . . .18
9282-0545 Wide Nylon Ribbon 18
9282-0561 Nylon Ribbon. 19
9282-0905 Cleaning Syringe 39
9282-0908 Cleaning Solution 39
92836-90005 FORTRAN book . . .119
92915A Bar Code Reader for HP 150 106,116
92916A Bar Code Reader for HP 150 II. 106,116
9300-0427 Wide Nylon Ribbon 19
9300-0468 Lint-free Wooden Swabs 72
9300-0750 Pkg. of 3 Vacuum Bags 20
9300-0757 Lint-free Plastic Swabs 72
9300-0955 Refillable Drafting Pen 35
9300-0956 Refillable Drafting Pen 35
9300-0957 Refillable Drafting Pen 35
9300-0958 Refillable Drafting Pen 35
9300-0959 Refillable Drafting Pen 35
9300-0960 Refillable Drafting Pen 35
9300-0967 Boots for Short-body Drafting Pens 39
9300-1068 24-in. Take-up Core. . . .39
9300-1069 36-in. Take-up Core. . . .39
9320-1515 132-Column Printer Paper. 19
97082-90002 Pascal book. 119
97907A 20.5 Mbyte Removable Disc Cartridge 69
97935A 404 Mb Disc Pack 69
98200A Mini Data Cartridges 65
98680-90025 UNIX™ book 120
98800U PlotTrak™/ HP-UX 115
98800V PlotTrak™/ HP-UX 115
98800W PlotTrak™/ HP-UX 115
98801V Alis®/HP-UX. 115
98801W Alis®/HP-UX 115
98815A Graphics Presentations . .114
98817A Project Management 114
98818A Forecasting 114
98819A HP TechWriter 114
98820A Statistics Library, Complete 114
98820B Statistics Library, Part I. . .114
98820C Statistics Library, Part II . .114
98821A Numerical Analysis Library 114
9940-4192 HP Documentation Binder 126
9940-4196 HP Documentation Binder 126
9940-4622 HP Documentation Binder 126

SUPER VALUE! SUPER VALUE! SUPER VALUE!

Save time and effort with the Automatic Daisywheel sheet feeder

92177Q/R PersonalFeeder™ for your 2601A/2602A Daisywheel Printers offers the professional look of single-sheet stationery and the convenience of continuous forms! Manual paper handling is practically eliminated. You no longer have to align each sheet by hand or arrange them in order. The feeder does it for you–automatically.

However, a manual override feed slot is available for insertion of odd-sized sheets, labels and envelopes.

This lightweight ergonomically designed PersonalFeeder™ allows for quick and simple operator installation on either HP 2601A or HP 2602A Daisywheel Printers.

Programs supported by the PersonalFeeder™ for the HP 150: MemoMaker, 1-2-3™ by Lotus™, and WordStar®.

Paper bin capacity: 175 sheets

Paper sizes: 6 × 7 in. to 14 × 14 in. (152.4 × 177.8mm to 355.6 × 355.6 mm)

Paper weights: 18 to 24 pounds basis weight

Manual feed slot: Maximum width 14 in. (355.6mm)

Interface: Direct drive from platen gear

Feed: a single sheet for every 90 lines of copy

Size: 5 in. (127 mm) H × 20.5 in. (520.7 mm) W × 12 in. (304.8mm) D

92177Q PersonalFeeder™ for 2601A ..... $395.00 ea.

92177R PersonalFeeder™ for 2602A ..... $395.00 ea.

Here's comfort and convenience for the Touchscreen (HP 150) PC user

When you have our tilt and swivel, you're in control! One touch lets you tilt the display 20 degrees for glare-free viewing, or rotate it a full 360 degrees for convenient sharing. Both products are light gray to complement your personal computer—in fact, they look built-in once installed. (Note: Tilt feature is built into the Touchscreen II (150 II) PC).

92240A Tilt unit
Tilt unit for the Touchscreen (HP 150)

92240B Swivel unit
Swivel unit for the Touchscreen/ Touchscreen II (HP 150 II)

92240A Tilt unit	
(1–2 units)	$49.00 ea.
(3–9 units)	45.00 ea.
(10+)	40.00 ea.
92240B Swivel unit	
(1–2 units)	$40.00 ea.
(3–9 units)	35.00 ea.
(10+)	31.00 ea.

DISC & TAPE PRODUCTS

HP 3.5-inch discs...Hewlett-Packard pioneered their broad use more than four years ago. That makes HP's track record with microfloppies one of the longest in the industry. Turn the page to learn more about the only flexible discs tried, tested and approved for use on HP disc drives.

3.5-inch discs 59
5.25-inch discs 59
8-inch discs 60
Disc storage accessories .. 61
Data cartridges 65
Cartridge/cassette accessories 67
Rigid discs 69
Magnetic tape 70
Cleaning accessories 72

Order from your local HP dealer
Call 800-367-4772 for nearest location

"After investing $50,000 in test equipment and six months of my time, why would I want to scrimp on the discs?"

"As a test engineer, I conduct experiments that require me to run aging tests over a six-month period. I gather data from all these tests and at the end of the six months the data is correlated. All the test results end up on 3½-inch discs. I want to be sure the data is still there when I come back. With HP's quality, I've got the best chance I can get."

Steven Weiss

Steve Weiss, *test engineer*
Astec USA (HK), Ltd., division of BSR
Producer of high-volume consumer and industrial electronics.

If something goes wrong with your discs, who do you turn to? At Hewlett-Packard we stand behind our products

At HP we're proud of our reputation for quality. It's an image we've earned through years of precision manufacturing to the highest standards. In the case of HP discs, quality starts with exacting specifications: for wear life, error rate, and production consistency. Then the testing begins: in the lab, during manufacturing, and at final certification before shipment. From the oxide coating to the parametrics of temperature and humidity, attention to the smallest detail results in premium discs we warrant to be error-free for five years.

There's another vital consideration. HP discs are specifically engineered to match the unique features of HP drives. When our drives are developed, HP research engineers also test and define the specifications for the discs to be used with those drives. Then HP discs are precisely manufactured, tested, and certified to be a perfect match for HP equipment.

HP 3.5-inch microfloppy discs: single-sided or double-sided.

Hewlett-Packard pioneered the development of 3.5-inch microfloppy discs over five years ago. And we've improved them every year since. Microfloppies provide maximum performance with HP 3.5-inch disc drives and are also compatible with IBM 3.5-inch disc drives.

HP 5.25-inch flexible discs in two storage capacities: 360KB and 1.2MB.

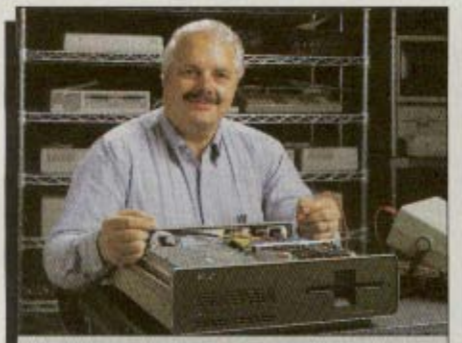
Order standard 360KB double-sided unformatted discs or the new high capacity 1.2MB discs. Use 1.2MB capacity with the HP Vectra PC's high capacity internal disc drive and the IBM PC/AT.

Buy in quantity and save

HP premium discs are now available in bulk packages of 100 discs at considerable savings. For even larger quantities, contact HP DIRECT.

Five-year warranty

HP flexible discs are warranted to be free from defects in material and workmanship for five years after shipment or HP will replace the disc absolutely free. Any damage sustained to the heads or media, or any consequential damage resulting from the use of non-HP media or cleaned disc media in HP equipment is excluded from warranty or service contract coverage, but will be repaired subject to HP's standard time and material charges. Use of non-HP media or cleaned disc media, however, does not affect warranty or service contract coverage of other components of the disc drive not associated with the head-media interface.



"When you buy discs, consider the total cost as well as the price."

"A customer shipped his HP 82901 disc drive back to us for repair. The repair cost is going to be $460 plus lost time and data. All the damage to the drive was caused by the non-HP flexible disc the customer used. Even though it was a "name brand" disc, it wasn't manufactured to HP specifications for our disc drives."

Gary Paulson

Gary Paulson
HP field service repair supervisor

3.5-inch Microfloppy discs

Product number	Description	Use with HP disc drives & storage systems	Price
92191A	Box of 10, 3.5-inch, single-sided, auto-shutter, unformatted, 270K-byte (formatted capacity).	HP 9121D/S, 9133A/B, 9133V/XV.	(1 box of 10 discs) ..... $39.00 box (2–4) ..... 35.00 box (5–19) Reduced price ..... 32.00 box (20+) ..... 29.00 box
92192A	Box of 10, 3.5-inch, double-sided, auto-shutter, unformatted, 710K-byte (HP formatted capacity), 720K-byte (IBM formatted capacity).	HP 9114A/B, 9122D/S, 9123D, 9133D/H/L, 9153A/B.	(1 box of 10 discs) ..... $49.00 box (2–4) ..... 45.00 box (5–19) Reduced price ..... 42.00 box (20+) ..... 39.00 box
92192N Buy 100 pack & save 16%	Box of 100, 3.5-inch, double-sided, auto-shutter, unformatted, 710K-byte (HP formatted capacity), 720K-byte (IBM formatted capacity). Also order 92192R if disc labels required.	HP 9114A/B, 9122D/S, 9123D, 9133D/H/L, 9153A/B.	(1 box of 100 discs) ..... $349.00 box (2–4) ..... 329.00 box (5+) Reduced price ..... 309.00 box
92192R	Package of 250, multi-colored disc labels for use with 92192N.		(1 pkg of 250 labels) ..... $19.95 pkg.

5.25-inch Flexible discs

Product number	Description	Use with HP disc drives & storage systems	Price
92190A	Box of 10, 5.25-inch, double-sided, unformatted, 360K-byte (formatted capacity).	HP 2642A and 2647F terminals, 45811A, 82901M, 82902M, 9125S, 9127A, 9135A, 9826 and 9836 computers, HP Vectra PC Model 25.	(1 box of 10 discs) ..... $32.00 box (2–4) ..... 28.00 box (5–19) Reduced price ..... 25.00 box (20+) ..... 22.00 box
92190L	Package of 50 in 5 FlexFiles, 10 discs per FlexFile, 5.25-inch, double-sided, unformatted, 360K-byte (formatted capacity). See FlexFiles pictured on page 62.	HP 2642A and 2647F terminals, 45811A, 82901M, 82902M, 9125S, 9127A, 9135A, 9826 and 9836 computers, HP Vectra PC Model 25.	(1 pkg of 50 discs) ..... $125.00 pkg. (2–4) ..... 118.00 pkg. (5+) Reduced price ..... 110.00 pkg.
92190N Buy 100 pack & save 15%	Box of 100, 5.25-inch, double-sided, unformatted, 360K-byte (formatted capacity).	HP 2642A and 2647F terminals, 45811A, 82901M, 82902M, 9125S, 9127A, 9135A, 9826 and 9836 computers, HP Vectra PC Model 25.	(1 box of 100 discs) ..... $212.00 box (2–4) ..... 187.00 box (5+) Reduced price ..... 174.00 box
92190X High-capacity	Box of 10, 5.25-inch, high-capacity, double-sided, unformatted, 1.2M-byte (formatted capacity).	HP 45812A, HP Vectra PC's high capacity 1.2MB internal drive, and IBM PC/AT.	(1 box of 10 discs) ..... $69.00 box (2–4) ..... 63.00 box (5–19) Reduced price ..... 58.00 box (20+) ..... 53.00 box

Rely on HP flexible discs for superior, error-free performance

HP flexible discs make a difference

When you buy HP flexible discs, you are assured they are carefully matched to your HP disc drives for optimum performance. We select flexible discs for the HP label only after rigorous qualification tests based on three key characteristics—disc wear life, error rate, and the disc manufacturer's ability to consistently meet our specifications without batch-to-batch variations.

Added value

HP discs are tested over the entire disc surface, not just the tracks, to ensure a 100 percent error-free surface. To provide you with precision performance time after time, each track and the space in-between tracks is tested with microprocessor-controlled certifiers that ensure each disc meets HP's high standards of excellence. An advanced burnishing method is used to polish the surface for the smoothest, most uniform result to assure you optimum signal quality and direct, easy-to-obtain data. A unique lubricant is applied to the disc which ensures totally error-free performance while minimizing your drive head wear . . . even after millions of passes.

HP flexible discs may be used on non-HP products where reliable, high performance discs are desired.

Our 3.5- and 5.25-inch flexible discs offer the same high standards of performance and reliability as our 8-inch discs. See pages 58–59.

Five-year warranty

HP flexible discs are warranted to be free from defects in material and workmanship for five years after shipment or HP will replace the disc absolutely free. Any damage sustained to the heads or media, or any consequential damage resulting from the use of non-HP media or cleaned disc media in HP equipment is excluded from warranty or service contract coverage, but will be repaired subject to HP's standard time and material charges. Use of non-HP media or cleaned disc media, however, does not affect warranty or service contract coverage of other components of the disc drive not associated with the head-media interface.

8-inch flexible discs for HP drives

Each package contains 10 flexible discs in protective envelopes and includes write-protect, jacket and storage box labels.

Product no.	Description	Systems	Price
92195A	Box of 10, 8 in., 1.2 Mb (formatted capacity) double-sided, unformatted (also see 92195L below)	HP 9895A Disc Drive and HP 250, 300, 3000/30, 3000/33 Systems	(1 box of 10 discs) . . $61.00 box (2–4) . . . . . 57.00 box (5–19) . . . . . 53.00 box (20+) . . . . . 49.00 box
92195F	Box of 10, 8 in., 1.2 Mb (formatted capacity) double-sided HP 250 formatted	HP 250	(1 box of 10 discs) . . $72.00 box (2–4) . . . . . 67.00 box (5–19) . . . . . 63.00 box (20+) . . . . . 58.00 box
9164-0105	Box of 10, 8 in., 0.5 Mb (formatted capacity) single-sided, unformatted	HP 9885M/S Disc Drive, HP 1000 Models 20 & 25 (2174A/B & 2175A/B), Subsystems	(1–2 boxes of 10 discs) . . $44.00 box (3–9) . . . . . 41.00 box (10+) . . . . . 38.00 box
09885-90045	One 8 in., 0.5 Mb (formatted capacity) single-sided, HP 9885/9825 formatted	HP 9885M/S Drives used with HP 9825A/S Desktop Computers	Single disc . . . . . $15.00 ea.

SAVE on HP FlexFiles (page 64) when you buy quality HP discs in the package below. Contains five FlexFile units and 50 flexible discs in protective envelopes and includes write-protect, jacket and storage box labels, and instructions.

Product no.	Description	Flex disc product no.	Price
92195L	Package of 5 FlexFiles, 50 8-in., unformatted, double-sided flex discs	Includes 92195A	(1–3 pkgs.) . . . . . $250.00 ea. (4+) . . . . . 225.00 ea.

Select your favorite filing system for your 3.25-inch, 5.25-inch and 8-inch discs!

No more frantic searching for misplaced discs! Save yourself time and minimize disc damage with an HP disc storage system that keeps your discs organized, easy to locate, clean and protected. For your convenience, all 3.5-inch, 5.25-inch and 8-inch disc storage systems are listed together in this section, organized by desktop, shelf, drawer, and portable storage.

Desktop

Roll-top files add a touch of class

Enhance your office decor with these handsome roll-top files for storing your personal discs. The genuine rosewood cover lends richness to the file and also slides back and out of the way for easy access. Constructed of durable plastic to ensure long-lasting protection with elegant styling. Also features rubber anti-skid feet and built-in disc dividers.

92191R Roll-top file for 3.5-inch discs.
Capacity: 50 discs.

(1 unit)	$39.00 ea.
(2–4)	36.00 ea.
(5+)	33.00 ea.

92194N Roll-top file for 5.25-inch discs.
Capacity: 120 discs.

(1 unit)	$49.00 ea.
(2–4)	46.00 ea.
(5+)	43.00 ea.

Latch the lid and keep your microfloppies safe

Protect your microfloppy discs in this compact desktop file. Stores up to 50 discs in a durable acrylic case. Index dividers make it easy to organize your discs for easy retrieval. Also features a non-metal latch that prevents discs from spilling out.

92191D Desktop file for 3.5-inch discs.
Capacity: 50 discs.

(1 unit)	$36.00 ea.
(2–4)	33.00 ea.
(5+)	30.00 ea.

Durable acrylic cases offer flip top access

Just flip up the hinged lid. The discs inside this practical desktop file are clearly displayed and readily accessible. Tabbed dividers and index labels are included to make it simple to organize your discs. Made of durable plastic, these files offer protection from office hazards such as dust, debris and moisture.

92191Q Compact file for 3.5-inch discs.
Capacity: 25 discs.

(1 unit)	$22.00 ea.
(2–4)	20.00 ea.
(5+)	18.00 ea.

92194A Compact file for 5.25-inch discs.
Capacity: 50 discs.

(1 unit)	$39.00 ea.
(2–4)	36.00 ea.
(5+)	33.00 ea.

92194B Compact file for 8-inch discs.
Capacity: 50 discs.

(1 unit)	$46.00 ea.
(2–4)	43.00 ea.
(5+)	40.00 ea.

Order from your local HP dealer
Call 800-367-4772 for nearest location

Shelf

HP FlexFiles keep on expanding as your discs multiply

Flexibility is built into this disc storage system. FlexFile units interlock on the sides, top or bottom, so you can stack units like building blocks—either vertically or horizontally. Just add new units as your needs expand and make the most of any work space. Your discs automatically flip forward for easy access when the FlexFile drawer opens. And when you need to transport discs, simply separate out a modular unit and take it with you. FlexFiles are constructed of tough polystyrene, for sturdy, dust-free protection.

92191E FlexFiles for 3.5-inch discs. Package of five FlexFiles. Each FlexFile unit holds up to 10 discs. Includes adhesive index labels and instructions. (Discs not included.)

(1 pkg.)	$37.00 pkg.
(2–4)	34.00 pkg.
(5+)	29.00 pkg.

92194E FlexFiles for 5.25-inch discs. Package of five FlexFiles. Each FlexFile unit holds up to 10 discs. Includes adhesive index labels and instructions. (Discs not included.)

(1 pkg.)	$36.00 pkg.
(2–4)	33.00 pkg.
(5+)	31.00 pkg.

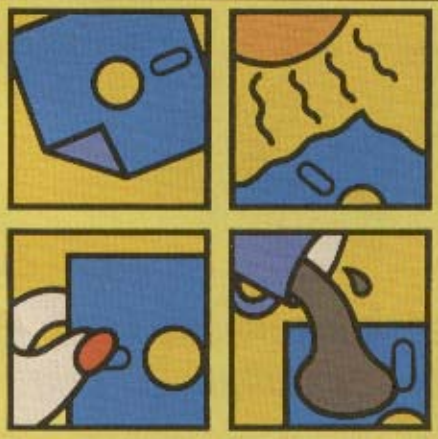
92194F FlexFiles for 8-inch flexible discs. Package of five FlexFiles. Each FlexFile unit holds up to 10 discs. Includes adhesive index labels and instructions. (Discs not included.)

(1 pkg.)	$36.00 pkg.
(2–4)	33.00 pkg.
(5+)	31.00 pkg.

HELPFUL IDEAS!

Take your choice. Store discs on your desk, shelf, or cabinet.

HP Disc Storage	Style	Disc storage capacity 10	15	20	25	40	50	120	Product number	Page no.
On your desktop	3.5" flip top				•				92191Q	61
	3.5" flip top						•		92191D	61
	3.5" roll top						•		92191R	61
	5.25" flip top						•		92194A	61
	5.25" roll top							•	92194N	61
	8.0" flip top						•		92194B	61
On your shelf	3.5" album			•					92191F	63
	3.5" album			•					92191H	63
	3.5" FlexFiles						•		92191E	62
	5.25" album			•					92194G	63
	5.25" FlexFiles						•		92194E	62
	5.25" binder					•			92194J	63
	8.0" album			•					92194H	63
	8.0" FlexFiles						•		92194F	62
	8.0" binder					•			92194K	63
In your desk drawer	3.5" hanging file					•			92191P (U.S.) 92191G (European)	64
	5.25" hanging file			•					92194P (U.S.) 92195P (European)	64
	8.0" hanging file	•							92194Q (U.S.) 92195Q (European)	64
Portable storage	3.5" micro case	•							92191T	64
	3.5" micro case		•						92191M	64



Handle with care. If left exposed, discs are easily damaged by dust, heat, fingerprints, bending and accidental spills. The critical data on your discs deserves to be protected from these hazards. To help you select the system that is best for you, refer to the chart on the left.

Shelf

Portable albums for cushioned protection

Fragile discs are protected, organized and easily accessed because of this filing system's unique features. Crimped pockets cushion each disc, preventing wrinkles or bends. The floating axle design eliminates additional stress if the binder is dropped or closed. Discs are kept secure in a vinyl cover with a Velcro® fastener. Easy and fast access and re-filing are aided by color-coded index stripes for each pocket. File organization is further enhanced with an index on the spine of the album for listing discs.

92191F Portable album file for 3.5-inch discs.
Capacity: 20 discs.

(1 unit)	$43.00 ea.
(2–4)	40.00 ea.
(5+)	37.00 ea.

92194G Portable album file for 5.25-inch discs.
Capacity: 20 discs.

(1 unit)	$43.00 ea.
(2–4)	40.00 ea.
(5+)	37.00 ea.

92194H Portable album file for 8-in discs.
Capacity: 20 discs.

(1 unit)	$56.00 ea.
(2–4)	52.00 ea.
(5+)	49.00 ea.

Match your disc storage albums to your software manuals

Shelve your discs in library album books designed to duplicate the size, color and style of your boxed software manuals. Your 3.5-inch discs slide into vinyl album pages; the album fits inside a cloth-covered box. Complete with 10 static-resistant vinyl pages.

92191H Library album book for 3.5-inch discs.
Capacity: 20 discs.

(1–4 books)	$23.00 ea.
(5+)	19.00 ea.

Library album pages

A package of static-resistant vinyl pages for filing microfloppy discs. File cards are included to help identify each disc.

92191L Package of 20 pages for 3.5-inch discs. For use with 92191H.
Capacity: 40 discs.

(1 pkg.)	$26.00 pkg.
(2–4)	23.00 pkg.
(5+)	21.00 pkg.

Binder storage with easel convenience

Store your flexible discs in the pages of this three-hole easel binder kit. Static-resistant vinyl pages hold your discs along with your supporting documentation. Also included are file cards to identify each disc.

92194J Easel binder kit for 5.25-inch discs.
Capacity: 40 discs.

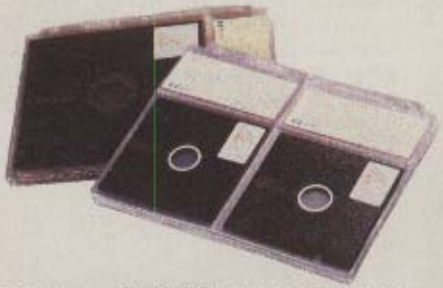
(1 kit)	$33.00 kit
(2–4)	29.00 kit
(5+)	26.00 kit

92194K Easel binder kit for 8-inch discs.
Capacity: 20 discs.

(1 kit)	$33.00 kit
(2–4)	29.00 kit
(5+)	26.00 kit

Three-ring binder pages for easel binder kit

A package of pebbled, static-resistant vinyl pages for filing flexible discs in your easel binder. File cards are included.



92194L Package of 10 pages for 5.25-inch discs.
Capacity: 40 discs.

(1 pkg.)	$19.00 pkg.
(2–4)	18.00 pkg.
(5+)	16.00 pkg.

92194M Package of 10 pages for 8-inch discs.
Capacity: 20 discs.

(1 pkg.)	$19.00 pkg.
(2–4)	18.00 pkg.
(5+)	16.00 pkg.

It's easy to order: 800-538-8787

Drawer

Hanging file pages for suspended drawer storage

Gain safety and convenience by hanging your discs in sturdy, vinyl pockets suspended from the rails of your filing cabinet. Available in either U.S. or European suspension frame sizes—U.S. 12.25-inch (311 mm) standard width and European 330 mm (13-inch) standard width. File cards are included to identify each disc.

Hanging file pages for 3.5-inch discs. Package of 10. Capacity: 40 discs.
92191P (U.S.)
92191G (European)
(Discs not included.)
(1 pkg.) ..... $26.00 pkg.
(2–4) ..... 23.00 pkg.
(5+) ..... 21.00 pkg.

Hanging file pages for 5.25-inch discs. Package of 10. Capacity: 20 discs.
92194P (U.S.)
92195P (European)
(Discs not included.)
(1 pkg.) ..... $22.00 pkg.
(2–4) ..... 19.00 pkg.
(5+) ..... 17.00 pkg.

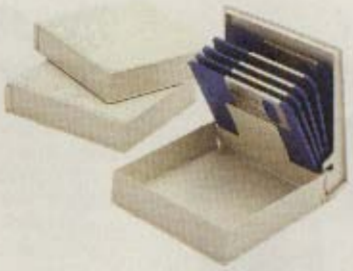
Hanging file pages for 8-inch discs. Package of 10. Capacity: 10 discs.
92194Q (U.S.)
92195Q (European)
(Discs not included.)
(1 pkg.) ..... $22.00 pkg.
(2–4) ..... 19.00 pkg.
(5+) ..... 17.00 pkg.

Portable

Micro case for space economy

This durable plastic 3.5-inch micro disc case holds 10 microfloppy discs in library-like fashion for easy fingertip retrieval. The disc holder slides open to reveal your discs with step filing. Slide it closed and file snaps shut for library storage or for convenient transport. Disc identification and spine labels included.
92191T Micro disc case for 3.5-inch discs. Capacity: 10 discs.
(1 case) ..... $7.00 ea.

Carrying case pack for safe transport



Each convenient pop-open case holds up to five micro discs for easy, safe storage and transport. Self-locking lid snaps shut for extra safety.
92191M Micro carrying case pack for 3.5-inch discs.
Capacity: 5 discs each package.
(Package of 3 cases) ..... $10.50 pkg.

"Your personnel have always been courteous, patient, and most helpful."

I would like to express my sincere appreciation for the way you have handled my account. I have ordered numerous computer support products over the phone. These orders have ranged from as small as $8 to more than $300. Yet, the service has always been the same—exemplary.

Also, I am repeatedly amazed at how fast my order arrives. Such promptness is to be commended, and is certainly remembered by me, one of your customers.

None of this would matter if the products were inferior. Happily, this is not the case. The quality of your products is unsurpassed. I cannot recall another company that has maintained such a consistently high image of its products and personnel.

In closing, I wish you and your company all the success you so richly deserve!

Sincerely yours,
Thomas Bradford
McCall, Idaho

Certified high-density data cartridge

These formatted and certified data cartridges are used for backup with the HP 7908/11/12/14, 9144A, 7942A, 7946A, and 35401A drives. Secondary uses are as a data exchange medium among HP systems, personal I/O (software distribution), and data/transaction logging. Formatted into 1K user data blocks. You no longer have to certify each tape cartridge. This saves up to 15 minutes per 150-foot tape and up to 75 minutes per 600-foot tape.

1 *88140LC Box of five certified cartridges.* 600-foot, 67 Mb, 16-track, ¼-inch wide, each with own protective plastic box.

(1 box of 5 cartridges)	$215.00 box
(2–4)	204.00 box
(5–19)	190.00 box
(20+)	183.00 box

2 *88140SC Box of five certified cartridges.* 150-foot, 16 Mb, 16-track, ¼-inch wide, each with own protective plastic box.

(1 box of 5 cartridges)	$160.00 box
(2–4)	149.00 box
(5–19)	139.00 box
(20+)	133.00 box

Be sure to see our new ***92242L/S*** streaming data cartridges for your 9142A drive. Both feature a PCT-16 (personal computer tape-16 track) recording format. Page 66.

Mini data cartridges

Through HP's well-engineered manufacturing process, our HP 98200A minicartridge offers better turn-on (start-up) performance and longer operating life—minimum 6000 cycles (a cycle is one roundtrip pass of the tape from one end to the other, and return) in most general-use applications. Actual performance will vary, depending on specific application.

NOTE: All minicartridges work best when "conditioned" before use (by making one total forward/rewind cycle), and by rewinding after each use.

These rugged HP-manufactured storage devices are each 100 percent tested mechanically (for proper tape tension and drive force requirements) and electromagnetically for error-free data recording). Metal backplate construction helps ensure accurate alignment of tape guides and other internal parts, while providing a grounding surface to protect the minicartridge from effects of static electricity.

3 *98200A Box of five mini data cartridges,* each with own protective plastic box. Used with HP Series 1000 and 3000 Computer Systems; HP 264X Series Display Terminals; HP 85A, 9815A/S, 9825A/S, 9831A, 9835A/B (System 35) and 9845A/B/C/S/T (System 45) Desktop Computers; HP 9915A option 001 Modular Computer, 9875A, 9877A Tape Units. Also for use on non-HP products where reliable, high-performance minicartridges are desired. For larger end-user and OEM quantity discounts, contact us.

(1 box of 5 cartridges)	$95.00 box
(2–4)	85.00 box
(5–19)	76.00 box
(20+)	67.00 box

Digital tape cassettes

4 *82176A Package of 10 mini data cassettes.* Each stores up to 128K bytes and is used on 82161A digital cassette drive.

Pkg. of 10 ..... $95.00 pkg.

5 *9162-0050 Individual digital cassette.* With HP label and index card, and sealed in plastic storage box. Used with HP 9821A Calculator, 9830A/B Desktop Computer, 9865A Cassette Memory; also non-HP products requiring high-quality digital cassettes.

(1–9 cassettes)	$11.00 ea.
(10–99)	8.50 ea.
(100+)	7.50 ea.

Data cartridge tray

Keep your 88140LC/SC and 92242L/S (page 66) data cartridges safe and organized in this handsome new storage tray. Features a key-locking, removable lid, which nests under the base when not in use. Constructed of durable high-impact plastic with transparent anti-static acrylic lid. Cream-colored base with molded slots holds up to 10 data cartridges securely in place.

92167F

(1–2 units)	$44.00 ea.
(3–6)	42.00 ea.
(7+)	39.00 ea.

HELPFUL IDEAS!

How to choose the right HP data cartridges, cassettes and storage accessories for your equipment

Simply find your HP tape drive in column 1 below. Then select the compatible data cartridge or cassette from column 2. The appropriate storage accessories for each product are listed in column 3.

1 HP tape drive	2 Cartridge/cassette product number	Page number	3 Storage accessories	Page number
35401A, 7908/11/12/14, 7942A, 7946A, 9144A	88140LC*	66	92167F, 92167L	66, 67
	88140SC*	66	92167F, 92167L	66, 67
9142A	92242L*	66	92167F, 92167L	66, 67
	92242S*	66	92167F, 92167L	66, 67
264X terminals, HP 85A, 9815, 9825, 9831, 9835, 9845, 9875A, 9877A, 9915	98200A	66	92167M, 92167N, 92194D, 92206A	67
82161A	82176A	66		
9821A, 9830, 9865A	9162-0050	66	92194C, 92206A	67

***The 88140LC/SC and 92242L/S data cartridges are incompatible and cannot be used interchangeably.**

HP data cartridges provide up to 60M-bytes of reliable PC backup

With 92242L/S data cartridges and the HP 9142A tape drive your Touchscreen (HP 150), Vectra, or IBM PC has up to 60M-bytes of cartridge tape backup. These ¼-inch, 16-track data cartridges are available in 150-foot and 600-foot lengths and are unformatted and uncertified. The 9142A drive allows you to format, initialize and certify the data cartridge off-line without tying up your host PC.

92242L Box of five data cartridges, 600-foot length, each in plastic box. Touchscreen (HP 150) 52M-bytes formatted storage; HP Vectra and IBM PC/XT/AT 60M-bytes formatted storage.

(1 box of five cartridges)	$180.00 box
(2–4)	171.00 box
(5–19)	162.00 box
(20+)	149.00 box

92242S Box of five data cartridges, 150-foot length, each in plastic box. Touchscreen (HP 150) 13M-bytes formatted storage; HP Vectra and IBM PC/XT/AT 15M-bytes formatted storage.

(1 box of five cartridges)	$129.00 box
(2–4)	123.00 box
(5–19)	116.00 box
(20+)	110.00 box

Tape cartridge magazine simplifies backup routines

The HP 35401A ¼-inch Cartridge Autochanger Tape Drive really helps simplify operations by allowing unattended backup storage. With the removable HP 92192C tape cartridge magazine for this drive, you can further simplify operations and reduce the potential for operator error.

The HP 92192C tape cartridge magazine holds up to eight standard ¼-inch cartridges (up to 536Mb of storage), and makes loading and unloading of cartridges easy. It also makes an ideal storage container for cartridge sets. Through the use of several cartridge magazines, each with its own set of cartridges, you can rotate through the sets of cartridges and make backup simple for your operators.

92192C Tape cartridge magazine

(1–2)	$56.00 ea.
(3–5)	49.00 ea.
(6+)	47.00 ea.

Tape cartridge accessories

Convenient space-saving storage products organize and protect your valuable media.

Mini data cassettes

1 ***82176A Package of 10 mini data cassettes.*** Each stores up to 128K bytes and is used on the 82161A digital cassette drive.
Pkg. of 10 ..... $95.00 pkg.

Mini data cartridge (98200A) storage

2 ***92167M Storage binder*** holds six mini data cartridges inside front cover. The HP 98200A cartridges are held secure in the molded storage compartments while in their protective plastic boxes. One or two molded binder inserts can be placed in this binder increasing the storage capacity to 12–18 cartridges (see 92167N).

Documentation pertinent to the data and programs recorded on the cartridges can be organized in the standard 2-inch, three-ring mechanism and in a vinyl pocket inside back cover. Protection for the three-hole documentation is provided by two sturdy page protectors. The outside of the binder is finished in padded bone-colored vinyl.
(1 binder) ..... $21.00 ea.
(2–4) ..... 19.00 ea.
(5+) ..... 17.00 ea.

3 ***92167N Storage binder insert.*** Package of three inserts. Each insert holds six HP 98200A minicartridges (while in their plastic boxes) and can be held by the sturdy brass-ringed eyelets in a three-ring binder (sizes 0.5 in. and up). The molded storage compartments are the same quality design and construction as used in the 92167M storage binder. These inserts provide an excellent technique for consolidating programs and data on minicartridges with supporting documentation in standard three-ring binders. One or two inserts can be added to the storage binders increasing the storage capacity to 12–18.
(1 pkg. of 3 inserts) ..... $21.00 pkg.
(2–4) ..... 19.00 pkg.
(5+) ..... 17.00 pkg.

4 ***92194D Desktop file for mini data cartridge.*** Designed to provide protection, organization and easy retrieval of invaluable data and programs. This attractive, durable, smoke-colored acrylic file holds up to 24 of the HP 98200A mini data cartridges.
(1 unit) ..... $46.00 ea.
(2–4) ..... 43.00 ea.
(5+) ..... 40.00 ea.

Digital cassette (9162-0050) storage

5 ***92194C Desktop file for HP digital cassettes.*** Designed to provide protection, organization and easy retrieval of invaluable data and programs. This attractive, durable, smoke-colored acrylic file holds up to 18 digital cassettes (9162-0050).
(1 unit) ..... $46.00 ea.
(2–4) ..... 43.00 ea.
(5+) ..... 40.00 ea.

Data cartridge (88140LC/SC) storage

6 ***92167L Package of five high-density data cartridge albums.*** Now you can organize and transport your HP 88140 cartridge in a dust-free album that helps eliminate the mishandling and misplacing of individual cartridges. The albums are constructed of sturdy vinyl, hinged for easy access. Each album holds four cartridges; two in the molded front cover and two in the back cover inserts.
(1 pkg.) ..... $34.00 pkg.
(2–4) ..... 31.00 pkg.
(5+) ..... 29.00 pkg.

Mini data cartridge (98200A) or digital cassette (9162-0050) storage

7 ***92206A Mini data cartridge rack.*** Mobile and stackable! Chrome-finished steel racks are designed for fingertip accessibility of up to 16 cartridges or digital cassettes. Racks are stackable for space-saving convenience. Buy three and save.
(1–2 units) ..... $26.00 ea.
(3+) ..... 20.00 ea.

It's easy to order: 800-538-8787

High-performance drives require high-performance media

Sophisticated design

Your HP disc drive is one of the most sophisticated computer products made today. Its design and manufacturing involves more engineering disciplines than any other single computer component. In fact, each drive is a hybrid combination of not only electrical engineering, mechanical engineering and magnetics, but also fluid mechanics, aerodynamics and metallurgy.

Precision interplay

It is attention to detail in all of these fields throughout the design and manufacturing of our media products that allows Hewlett-Packard to offer exceptional levels of reliability and performance in our disc drives. The head/media interface is a prime example of the precision required for high performance operation. On the 7925 disc drive, the read/write heads:

- Detect as many as 7.5 million individual data bits each second
- Fly 27 millionths of an inch off of the media surface on a thin air bearing at over 100 miles per hour

This flying height may best be visualized by comparing it with the sizes of contaminants present in a typical operating environment. (See Figure 1.)

Media quality is essential

Because of the precision tolerances existing at the head/media interface, the quality of the media is critical to drive performance and reliability. There is no room for less than the best. Consequently, the time we spend ensuring the integrity of the media will be returned in terms of increased drive reliability, a proportionately lower cost of ownership, and performance at the level that the drive was designed to offer.

13356A formatted disc pack, center. 12940A disc cartridge, upper left.

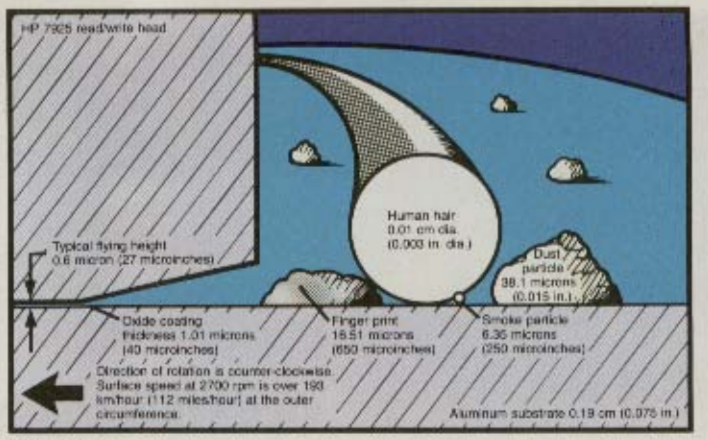


Figure 1

HP rigid discs are 100 percent tested

Every HP rigid disc pack and cartridge is 100 percent tested and certified for use on HP drives (see story below on how HP tests disc packs). Dynamic testing dramatically increases reliability by reducing surface imperfections or imbalances. Our media also undergo exhaustive electromagnetic data transfer testing under "worst case" conditions. This ensures optimum media error performance, as well as interchangeability of disc packs and cartridges between similar model disc drives.

Because of the unique interdependence of total disc performance and the head/media interface, disc drive specifications and reliability can be assured when using HP media products.

Two more reasons to use HP rigid discs:

1. They are formatted and ready for immediate use on their respective drives, saving up to 30 minutes per disc pack.
2. HP rigid discs are guaranteed to have available spare tracks on every surface.

Undesirable alteration of the media surface environment can result from improper cleaning. The cleaning of HP media products is, therefore, not recommended.

Any damage sustained by the heads or media, or any consequential damage resulting from the use of non-HP media or improperly cleaned media will not be covered under warranty service contract.

The 10 steps to quality in HP disc packs

- *Visually inspect raw disc platters.*
- *Mechanically analyze for disc flatness and roughness.*
- *Electronically evaluate magnetic properties.*
- *Assemble into multi-disc packs (see photo).*
- *Dynamically balance for vibration-free rotation.*
- *Mechanically analyze, a second time, for disc flatness and roughness.*
- *Burnish disc surfaces.*
- *Magnetically purify (degauss) all surfaces.*
- *Write permanent servo code bands on one disc in the pack.*
- *Fully test each pack on a drive similar to yours under "worst case conditions."*

New removable disc is small, inexpensive & compatible with the HP 1000/9000

20.5Mbyte removable disc cartridge is now available for the HP 7907A Fixed/Removable Mass Storage Subsystem. With this new 8-inch removable disc, data can be copied from the fixed disc in less than three minutes! Now you have the ability to interchange large volumes of data quickly and easily. When security is essential, the removable disc can be taken off line and stored away. A protective jacket allows you to store the disc safely when not in use. The 7907A drive is compatible with CS/80 and HP-IB, which means support on HP 1000 and HP 9000 processors.

97907A

(1 cartridge)	$215.00 ea.
(2–5)	199.00 ea.
(6+)	180.00 ea.

HP rigid discs are 100% tested

Rigid discs

Product no.	Description	Systems	Price
12869A	2.5 Mb Disc Cartridge formatted front loading	HP 7900A, 7901A, 9880B, 12960A, 12961A, 30110A Disc Drives and Subsystems	(1–3 units) $135.00 ea. (4–41) 115.00 ea. (42+) 105.00 ea.
12940A	9.8 Mb Disc Cartridge formatted front loading	HP 7905A, 7906H/M/S, 12962C/D, 13180A/B Disc Drives and Subsystems	(1–3 units) $165.00 ea. (4–41) 150.00 ea. (42+) 140.00 ea.
13394A	50 Mb Disc Pack removable formatted	HP 7920 H/M/S Disc Drives	(1–5 packs) $560.00 ea. (6–19) 510.00 ea. (20+) 475.00 ea.
13356A	120 Mb Disc Pack removable formatted	HP 7925 H/M/S Disc Drives	(1–5 packs) $905.00 ea. (6–19) 850.00 ea. (20+) 815.00 ea.
97935A	404 Mb Disc Pack removable formatted	HP 7935 Disc Drives	(1–4 modules) $1250.00 ea. (5–19) 1210.00 ea. (20+) 1170.00 ea.

Reduced price

It's easy to organize your rigid discs

Keep your rigid disc cartridges conveniently stored right where you want them. Our mobile storage rack makes organization and retrieval of invaluable data and programs easy. This superior-quality rack features heavy-gauge steel wire with nickel-chrome plating. Rubber non-skid feet protect your furniture. Storage capacity for nine discs.

92286D Rigid disc rack

(1–2 units)	$26.00 ea.
(3+)	20.00 ea.

I actually enjoy phoning in an order for supplies from the catalog. *The HP employees who help us are friendly and informed, and it's more like being helped by an old friend than dealing with a large company."*

Joel Nossoff, Director
California State University,
Los Angeles
Los Angeles, California

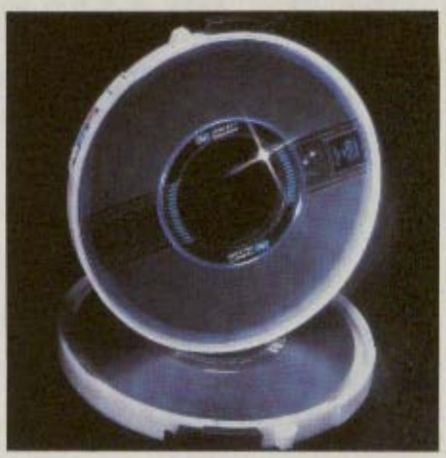
HP magnetic tape–special coating means extra protection

HP's 0.5-inch (12.7mm) computer tape has an extra layer for extra protection of your valuable data. HP tape has a textured substrate (backside coating) which helps protect your data by protecting itself in day-to-day storage and operational use. The backside coating allows air lubrication between tape layers, enabling uniform sliding and the reduction of cinching, thus less lateral tape movement and fewer worn edges that result in lost data.

The exposed polyester backside on conventional tapes is a major cause of debris that can create dropouts and attendant information loss. HP's new tape with its textured substance backing resists scratching and the generation of debris. At the same time, HP tape resists static attraction of airborne particles. Complies with ANSI X.340-1976 and X.340-1983 specifications.

Better	Less
• Data integrity	• Edge damage
• Protection of your information	• Contamination
	• Distortion

Certified to 6250 BPI. Use on all HP 7970, 7971, 7974, 7976, and 7978 tape units and tape subsystems using 0.5-inch (12.7mm) wide tape.



Mag tape length can vary!

Occasionally, customers ask HP about the physical length of a tape and how much of the tape is actually available for storing data. We thought this information would be appropriate to pass on to all of our customers.

HP brand tape uses the American National Standards Institute (ANSI) and IBM specifications for our tape as do most major tape manufacturers.

The tape length, as referred to on the reel, packaging and literature, references the overall length of the tape from one physical end to the other. An advertised 600-foot reel of tape is physically at least 600 feet long. However, it may in fact be up to 620 feet in length. This is not an attempt to mislead anyone but a consequence of man's inclination to round things off to even numbers to facilitate discussion, and has become industry practice.

The amount of tape available for data storage is located between the BOT marker and the EOT marker. The BOT marker is located 16 feet plus or minus 2 feet from the physical beginning of the tape. The EOT marker is located 25 to 30 feet from the physical end of the tape.

The tape before the BOT marker allows you to feed the tape through the tape path and onto the take-up reel. Recording starts at the BOT marker. However, if the drive is in the middle of a file, it may not stop recording exactly at the EOT marker, which is why there is a little more tape after the EOT marker than before the BOT marker.

When you buy HP magnetic tape you can be sure you receive "full measure" quality tape.

Magnetic tapes

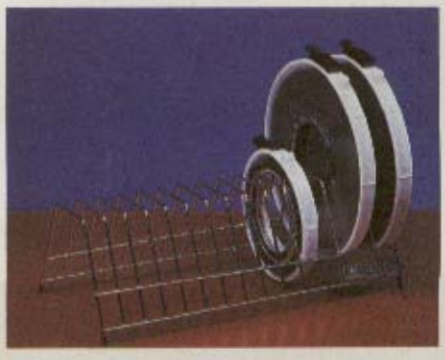
Product no.	Description	Systems	Price
92150D	Box of 10 600-ft. (183m) tapes on reels, in seals 0.5 in (12.7 mm) wide	HP 7970, 7971, 7974, 7976, 7978 Tape Drives and subsystems	1 box of 10 tapes .. $135.00 box 2–5 ..... 125.00 box 6+ ..... 115.00 box
92150E	Box of 10 1200-ft. (366m) tapes on reels, in seals 0.5 in (12.7 mm) wide	HP 7970, 7971, 7974,7976,7978 Tape Drives and subsystems	1 box of 10 tapes .. $175.00 box 2–5 ..... 165.00 box 6+ ..... 155.00 box
92150F	Box of 10 2400-ft. (732m) tapes on reels, in seals 0.5 in. (12.7 m) wide	HP 7970, 7971, 7974, 7976, 7978 Tape Drives and subsystems	1 box of 10 tapes .. $240.00 box 2–5 ..... 225.00 box 6– ..... 210.00 box
92150P	Box of 10 2400-ft. (732m) tapes on reels, in Easy Load II cartridges 0.5 in. (12.7 mm) wide	HP 7976 Tape Drive only	1 box of 10 tapes .. $260.00 box 2–5 ..... 245.00 box 6+ ..... 230.00 box

Mag tape care is easy with the right accessories.

92150K Magnetic Tape reel labels. Blank white adhesive labels. For quick identification and indexing of your tapes and other items. Roll of 1000 labels.
(1–4 rolls) ..... $78.00 ea.
(5+) ..... 74.00 ea.

92150Q Box of 10 empty Easy Load II self-threading cartridges. To be used on 2400-foot tapes (10.5-inch reels) when using the auto-load feature on HP 7976 Tape Drives.
(1 box of 10) ..... $46.00 box
(2–5) ..... 43.00 box
(6+) ..... 40.00 box

92206T Magnetic tape rack. Organization means time savings! Our mobile 15-reel capacity storage rack will help you and your people stay organized. Chrome-finished steel rack designed for use with 600-foot, 1200-foot, or 2400-foot tapes in seals. Order today and transform your desk or shelf into an organized data library. Buy three and save.
(1–2 racks) ..... $26.00 ea.
(3+) ..... 20.00 ea.



92150L Mag tape color/numbering kit

92150L Mag tape color/numbering kit. Prevent misfiling! Our simple color-coded numbering system will help you eliminate misfiles in your magnetic tape library. 1000 labels (numbered 0–999).

- Designed with pressure-sensitive labels, which are inserted into label area of Tape-in-Seal cartridges.
- Each label is provided with location tabs which can be used on library tape racks or cabinets to quickly identify filing spot.

Price ..... $98.00 ea.

92150M Mag tape sense markers. These reflective, pressure-sensitive markers offer convenient tape beginning and ending indicators. 250 markers to a card.
(1–9 cards) ..... $10.50 ea.
(10+) ..... 9.50 ea.

92150X Box of magnetic tape take-up reels. Replace broken reels and keep extras on hand. Five 10.5-inch reels to a box. Clear plastic front, HP blue-colored back.
(1 box of 5) ..... $20.00 box

9162-0027 Head alignment tape. Has tracks, recorded at 800 BPI, precisely located on its 600-foot (183m) length. Used during testing or adjustment of 7- and 9-track head alignment on 0.5-inch (12.7mm) tape units. In protective canister.
Price ..... $245.00 ea.

Be sure to see our magnetic tape head cleaning supplies on page 72.

92150T Transport/ carrying case for 2400-foot magnetic tapes. Holds up to four reels in either tape seals or Easy Load Cartridges. This case combines durable impact-resistant polyethylene construction on the outside with shock absorbing foam on the inside to ensure reliable protection when carrying or shipping your valuable data and software. Built-in hasp for your personal padlock.
Dimensions: 15.8 × 17 × 6.5 inches (40 × 43.2 × 16.5 cm) Weight: 7.5 pounds (3.4 kg)
(1–2 cases) ..... $67.00 ea
(3+) ..... 61.00 ea

Locate and retrieve your magnetic tapes in seconds

92272F Library tape storage rack. To match our new cabinet line, we have added a companion library tape rack. It helps you utilize wall and floor space for high density tape storage at minimum cost. Up to 300 tape reels in seals may be stored in any combination of 600-foot, 1200-foot or 2400-foot reels. Some assembly is required. Construction is of welded steel with open base design. Color is cream-gray, matches other 92272-series cabinets and complements other HP furniture. Exterior dimensions: height 79.5 in. (200 cm); width 48.5 in. (123 cm); depth 13.2 in. (33 cm).
(1 rack) ..... $335.00 ea.
(2+) ..... 308.00 ea.

92272D Magnetic tape storage cabinet

92272D Magnetic tape storage cabinet. The tape hanger bars are designed to accommodate .5-inch industry-compatible magnetic tape in tape seal only. Up to 175 of either 600-foot, 1200-foot, or 2400-foot reels of tape may be stored in any combination. Mag tape hanger bars are all pre-installed. (Media pictured is not included in cabinet price.)
Exterior dimensions: height 84 inches (213cm); width 36.5 inches (93cm); depth 21 inches (53cm).
Cabinet and door are both cream gray. NOTE: Shipped by truck. Shipping weight–279 lbs. (126kg).
(1) ..... $900.00 ea.
(2+) ..... 855.00 ea.

Be sure to see pages 73–99 for our complete line of cabinets and furniture.

92272F Library tape storage rack

It's easy to order: 800-538-8787

Magnetic tape head cleaning supplies

Although HP does not recommend the cleaning of rigid or flexible disc media, we do recommend the periodic cleaning of tape heads, capstans and guides on tape units and those products using high-density data cartridges and mini data cartridges. Such cleaning prolongs tape/head life and helps reduce read/write errors due to dust and oxide buildup.

1 92193H Magnetic head clean kit for flexible, mag tape, and rigid disc drives. Prolong tape head life and minimize read/write errors by periodically inspecting your mag heads visually and by using this kit regularly. Regular use reduces dust and oxide buildup. Contains two 4-ounce bottles of cleaning solution, 50 lint-free wipes, 10 plastic swabs with urethane foam tips and one easy-pour dispensing cap.

(1 kit)	$35.00 ea.
(2–4)	33.00 ea.
(5+)	30.00 ea.

2 92193M Master clean kit for flexible, mag tape, and rigid disc drives. This kit contains all the components necessary for cleaning disc drive heads, capstans and guides, terminal screens, printers and all equipment surfaces. Included are one 4-ounce bottle of mag head cleaning solution, one 4-ounce bottle of antistatic solution, one 4-ounce bottle of screen-cleaning solution, 10 plastic swabs with soft urethane foam tips, 16 screen-clean wipes, 50 lint-free wipes, two pump spray tops, gloves, and instructions.

(1 kit)	$44.00 ea.
(2–4)	42.00 ea.
(5+)	40.00 ea.

Individual cleaning accessories

Supplement and refill your HP cleaning kits with accessory cleaning components. You can save by ordering components in larger quantities based on your normal maintenance program.

3 92193W Lint-free wipes. Buy in bulk and save! One bag of 100 lint-free thermal-bonded polyester wipes. Safe to use on all HP equipment surfaces. 4 × 4-inch (10.2 × 10.2 cm) each.

(1–4 bags)	$12.00 ea.
(5+)	10.00 ea.

4 92193F Magnetic head cleaning solution with a new flip top to help prevent contamination. For easy, safe, effective maintenance of mag tape and flexible and rigid disc drives. Use this 100 percent Freon TF solution with cleaning swabs and compressed air on drive read-and-write heads, capstans, and guides. Each bottle contains 12 fluid ounces.

(1–4 bottles)	$16.00 ea.
(5+)	14.00 ea.

5 92193Y Compressed air cleaner. A box of two 12-ounce cans of compressed air cleaner. Use to clean hard-to-reach spots and to speed evaporation of cleaning solutions. Safe and handy to use. Includes extension spray tube.

(1–4 boxes)	$21.00 ea.
(5+)	19.00 ea.

6 9300-0468 Box of 50 lint-free wooden swabs with soft urethane foam tips. Use 9300-0767 for cleaning the high-density data cartridge transports.

(1–2 boxes)	$15.00 ea.
(3+)	12.00 ea.

7 9300-0767 Box of 50 lint-free plastic swabs with soft urethane foam tips. Recommended for use in cleaning tape head and capstan in HP 7908/11/12/14 tape transports. Use with 92193F magnetic head cleaning solution.

Price *Back by popular demand* $27.00 box

8 92193G Cleaning gloves. Protect your equipment and keep your hands clean when using HP cleaning supplies. Twenty-five pairs of gloves to the bag.

(1–4 bags)	$27.00 bag
(5+)	24.00 bag

Cleaning kit for 8-inch drives

New, easier-to-use cleaning kit eliminates the need for messy cleaning solutions. Provided are two double-sided cleaning discs and instructions. The cleaning procedure uses your system's initialize command or cleaning utility to move the read/write head across the cleaning surface. The entire procedure takes only a few minutes. Each cleaning disc is good for 26 cleanings.

92193L Head cleaning kit for 8-inch flexible disc drives. Includes protective case for two cleaning discs in envelopes.

(1 kit)	$32.00 kit
(2–4)	30.00 kit
(5+)	28.00 kit

FURNITURE

HP ergonomic chairs...adjustable up, down, forward or backward at the touch of a button. Our chairs are just one example of HP DIRECT furniture, designed to help you get the most from your HP computer systems. Take a look through this new section for the furniture configurations that suit your office best.

Office & workstation 74

Files & binders 84

Cabinets 86

Sound enclosures 89

Ergonomic chairs 90

Workstation accessories... 92

Anti-static accessories 98

It's easy to order: 800-538-8787

Design Plus...

It's the *total* solution, developed with your Hewlett-Packard Computer System—and you—in mind.

Design Plus matches your equipment perfectly, to give your office or workstation an appealingly coordinated look. And because each *Design Plus* component was designed to fit together, your work space can be easily re-configured or expanded to suit changing system needs.

What's the "Plus?" There are several. Ingenious cable management. More than ample workspace. Infinitely-expandable storage space. And a truly ergonomic design that affords enormous convenience and hours of comfort.

Fits your Hewlett-Packard system like a glove.

Design Plus fits HP computers and peripherals so perfectly, it becomes an integral part of your total computer solution.

It's constructed of the highest quality materials. Solidly die-cast metal legs withstand the weight of your equipment—and the pressures of normal office moves—without danger of buckling or breaking.

Attractive textured surfaces resist scratches and stains, while protecting your eyes from the glare of overhead lighting.

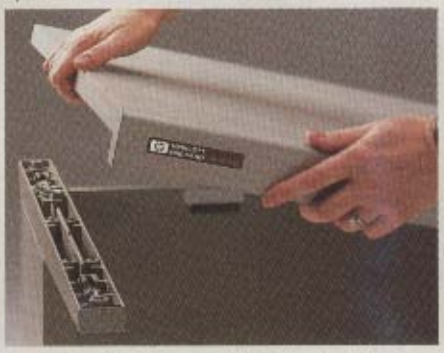
What a fit! The Mobile Drawer Unit is perfectly flush at the System Table's left, with the Mobile Support Cabinet nestled underneath. That's the Mobile LaserJet Cabinet at the table's right (see page II). And our Mini-Rack Cabinet completes the picture. For complete details, see the chart on page 78.

Our **System Tables** conform to stringent ergonomic standards for your optimal working comfort.

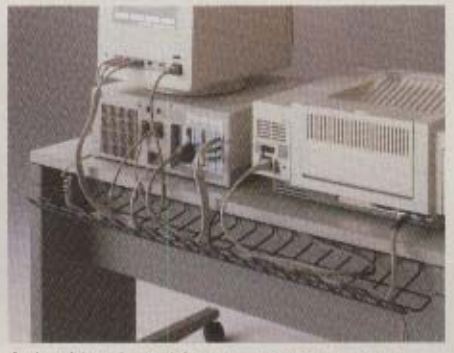
Our cabinetry is similarly well-conceived. The **Mini-Rack Cabinet**, designed to hold the CPU and disc drive of your HP 9000 Series 200, 300 or 500 computer, is the cabinet that encases the HP 3000 Series 37, HP 260 or MICRO 3000. Not only does it match the height and depth of our tables, it can be locked into place. Result? Additional work surface, flush-fitted and uninterrupted by troublesome gaps or height discrepancies.

Depend on our **Mobile Drawer Units** to store files, documentation and other valuables. Like the Mini-Rack Cabinets, they match the height of our tables exactly. You can slip hard-disc drives and tape back-up systems into **Mobile Support Cabinets**, and tuck them conveniently under our tables.

We offer printer stands that combine fit with durability and mobility. Look to the new **Mobile LaserJet Printer Cabinet** for an abundance of work- and storage space. Choose a **Mobile Sound Enclosure Cabinet** for HP dot matrix printers. Or the **Universal Support Stand** for other printers and small plotters. All roll easily on self-locking casters.



Tabletops slide on and lock into position in just seconds—without tools—to form a sturdy, secure working surface. It's as easy as drop, slide, lock.



A durable wire cable management system neatly routes cables along the back side of tables, allowing for equipment connection at the point most convenient to you.

Buy a *Design Plus* system and save...

The Design Plus One

This large system is ideal for managerial or administrative personnel. It offers ample desktop space for you to spread out and work, as well as for your terminal, keyboard and laser printer.

Included are two roomy drawers for your office supplies and documentation, plus a deeper one for hanging files and records. And because the cabinet of your HP 3000 Series 37, MICRO 3000, MICRO 3000 XE or HP 260 computer is perfectly flush with your system table, you get bonus workspace.

This system includes:
92214A Terminal Support Table
92214B Medium System Table
92214J Corner Turn
92211N Mobile Drawer Unit

92214AA *Design Plus One* ..... $1569.00 ea.

Save $144!

The Design Plus Two

This basic package is just right for support personnel and others who use a personal computer or the HP 9000, and require a compact workstation.

Desktop space easily accommodates a PC or a terminal and keyboard, plus a printer or small plotter. It includes a Mobile Support Cabinet to store your HP 9000 computer's CPU and mass storage devices tidily under the System Table. And like the *Design Plus One*, it includes a Mobile Drawer Unit for supplies, files and documentation.

This system includes:
92214C Large System Table
92211N Mobile Drawer Unit
92211L Mobile Support Cabinet

92214BB *Design Plus Two* .. $1229.00 ea.

Save $124!

For information on our ergonomic chairs, just turn to page 90. And remember...our prices include the cost of shipment to you. See center of catalog for details.

...Or buy one of these suggested configurations

The Desktop Publishing Configuration

This conveniently "L"-shaped configuration offers space for your computer equipment, and for *you*. One end easily accommodates your PC, LaserJet Printer and ScanJet optical scanner. Mass storage devices for large graphics and text files can be handily stored in a *Design Plus* Mini-Rack.

Devote the other end of the "L" to your research materials, PC-generated text and layouts, and the tools of your trade. The three-drawer Mobile Drawer Unit keeps background materials and office supplies close. You'll have room to work productively and creatively, and to share work-in-progress with others.

This configuration incorporates:

92214B Medium System Table (two)
92214J Corner Turn
92211N Mobile Drawer Unit
92211R Mini-Rack
92211B Mobile LaserJet Printer Cabinet (see page 11)

Choose the components that suit *your* current needs from the chart on the following page.

The CAD Configuration

This is the optimum workstation for those who recognize the value of an HP 9000 Series 300/500 for electrical- and mechanical design.

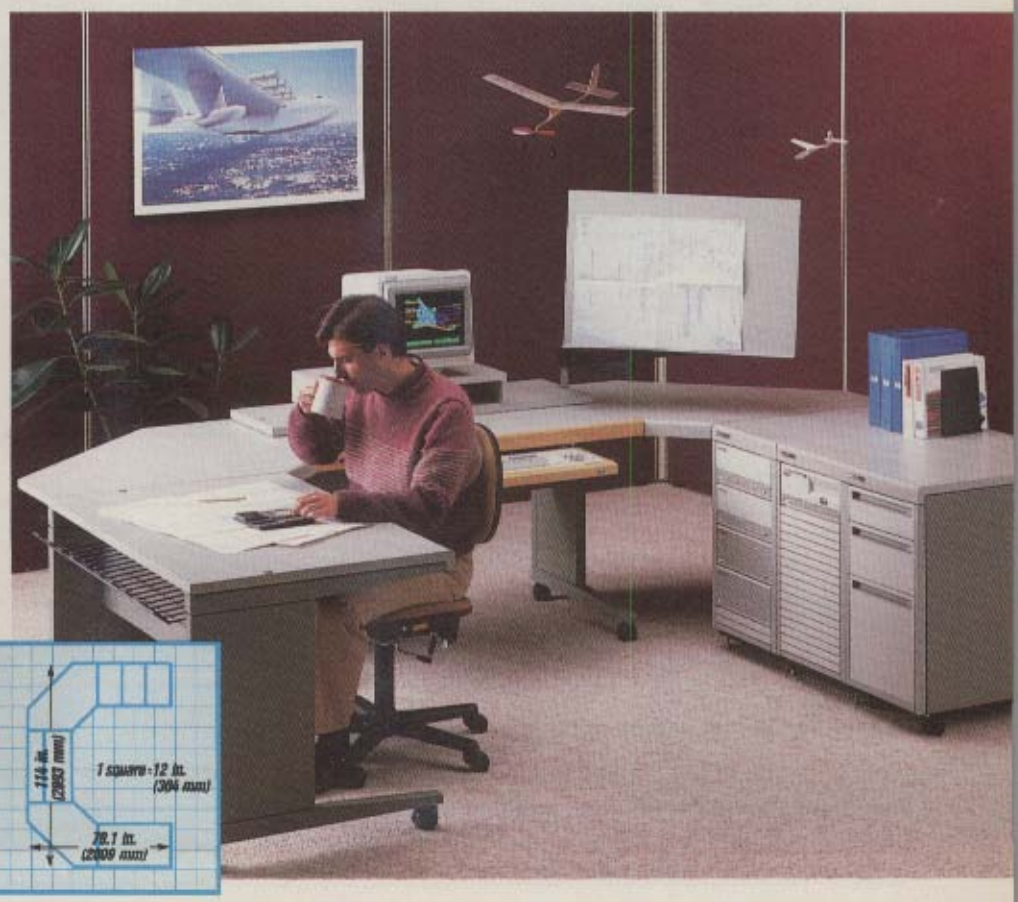
There's space for drawings, blueprints, diagrams, schematics, *and* a computer. Two mini-racks store CPU, disc drives and mass storage devices, while a platform raises the monitor for better visibility. A drawer slides your keyboard out-of-sight until you need it, or to the left or right end of your main work surface.

The main work surface extends to accommodate expansive drawings in front of your computer's monitor—you can view work on your desk and your screen at the same time. A large drawing holder offers further convenience, as do spacious System Tables and Corner Turns. Roomy drawers keep files at your fingertips.

Left to right, this configuration requires:

92214B Medium System Table
92214J Corner Turn (Two)
92213B CAD Mini-Workstation
92211R Mini-Rack (two)
92211N Mobile Drawer Unit
92213D "C" Sized Drawing Holder

See the chart on the next page for the components *you* need.



It's easy to order: 800-538-8787

Design Plus furniture

Part number	Description	Height	Width	Depth	Price
92214A	*Design Plus* Mobile terminal support and transport system table. Designed to safely move terminals and small systems. Comes with cable management, locking casters, and is same height as 92211R mobile rack system cabinet.	28.4 in. (720 mm)	29.5 in. (750 mm)	28.0 in. (711 mm)	(1–2 tables) . . . . $430.00 ea. (3+) . . . . . 400.00 ea.
92214B	Medium *Design Plus* system table. Comes with cable management, locking casters, and is same height as 92211R mobile rack system cabinet.	28.4 in. (720 mm)	44.3 in. (1125 mm)	28.0 in. (711 mm)	(1–2 tables) . . . . $489.00 ea. (3+) . . . . . 465.00 ea.
92214C	Large *Design Plus* system table. Comes with cable management, adjustable leveling glides, and is same height as 92211R mobile rack system cabinet.	28.4 in. (720 mm)	59.0 in. (1500 mm)	28.0 in. (711 mm)	(1–2 tables) . . . . $545.00 ea. (3+) . . . . . 520.00 ea.
92213B	*Design Plus* CAD mini-workstation. For use with the HP 9000 Series 300/500 computers. Comes with 14.25-in. (362 mm) wide raised monitor platform, pull-out work surface that extends to 36-in. (914 mm) deep, pull-out keyboard drawer and cable management. Same height as 92211R mobile mini-rack; 92211L/M fits underneath.	28.4 in. (720 mm)	44.3 in. (1125 mm)	28.0 in. (711 mm)	(1–2 units) . . . . . $799.00 ea. (3+) . . . . . 759.00 ea.
92213D	"C" sized drawing holder. Mounts to the monitor platform of the 92213B CAD table. Two-section arm for height and tilt position extends from 13.0 in. (330 mm) to 22.25 in. (565 mm). (see page 77 for photo.)	20.0 in. (508 mm)	30.0 in. (762 mm)	2.6 in. (6 mm)	(1–2 units) . . . . . $199.00 ea. (3–) . . . . . 189.00 ea.
92214J	90-degree *Design Plus* corner turn. Used for joining two system tables together for a larger work area.	Each side	28.0 in. (711 mm)		(1–2 units) . . . . . $225.00 ea. (3+) . . . . . 205.00 ea.
92211C	*Design Plus* mobile sound enclosure cabinet. For use with all 293X dot matrix printers. Rolls easily and sits level with all *Design Plus* tables. Gas cylinder door lifts, braking casters, paper storage, paper catcher tray and print monitoring window. Designed for rear paper exit. Comes fully assembled.	28.4 in. (720 mm)	29.5 in. (750 mm)	19.7 in. (500 mm)	(1 unit) . . . . . $675.00 ea. (2+) . . . . . 640.00 ea.
92211L	*Design Plus* mobile support cabinet. Rolls easily under the 92214B/C *Design Plus* system tables. Can be used as a stand-alone system cabinet for the HP 9000 Series 200/300/500, has open back. Comes with two sets of mounting rails, a cable routing kit (92199F), and a storage shelf. Internal dimensions are 12.8 in. (325 mm) wide × 20.40 in. (520 mm) high.	24.4 in. (620 mm)	16.7 in. (425 mm)	20.7 in. (525 mm)	(1–2 units) . . . . $239.00 ea. (3–9) . . . . . 229.00 ea. (10+) . . . . . 219.00 ea.
92211M	*Design Plus* small mobile support cabinet. Rolls easily under the 92214B/C *Design Plus* system tables. Can be used as a stand-alone system cabinet for the Series 200, Model 237 or 300. Comes with one set of mounting rails, a cable routing kit (92199F), and a pad to put under the Model 237. Internal dimensions are 12.8 in. (325 mm) wide × 13.26 in. (338 mm) high.	17.1 in. (435 mm)	16.7 in. (425 mm)	16.7 in. (425 mm)	(1–2 units) . . . . . $190.00 ea. (3–9) . . . . . 185.00 ea. (10+) . . . . . 175.00 ea.
92211N	*Design Plus* mobile drawer unit. Rolls easily and sits next to all *Design Plus* system tables (also same height as tables). Comes with three drawers, 4 in., 6 in. and 12 in. (104 mm, 156 mm, and 312 mm).	28.4 in. (720 mm)	14.8 in. (375 mm)	28.0 in. (711 mm)	(1–2 units) . . . . . $569.00 ea. (3–9) . . . . . 549.00 ea. (10–) . . . . . 539.00 ea.
92211R	*Design Plus* Mobile mini-rack system cabinet for HP modular peripherals and systems. Comes fully assembled with casters. Back opens for easy access. Accessories available are the 92211S mounting rail and module lock kit, 92211T filler panel kit, and 92199B power strip. Internal dimensions are 12.8 in. (325 mm) wide × 22.44 in. (572 mm) high.	28.4 in. (720 mm)	14.8 in. (375 mm)	28.0 in. (711 mm)	1–2 racks) . . . . . $550.00 ea. (3–9) . . . . . 520.00 ea. (10–) . . . . . 500.00 ea.
92211S	Rail kit for 92211R mobile mini-rack cabinet. Comes with four sets of rails and module locks. Used to mount up to four HP computer and peripheral equipment modules.		Rail length—25.1 in. (638mm)		(1–2 kits) . . . . . $45.00 ea. (3–9) . . . . . 40.00 ea. (10–) . . . . . 35.00 ea.
92211T	Filler panel kit for 92211R mobile mini-rack cabinet. Kit contains 20 snap-in panels used to fill empty space not occupied by computer equipment modules.	0.9 in. (23 mm)	12.8 in. (325 mm)	0.9 in. (23 mm)	(1–2 kits) . . . . . $38.00 ea. (3–9) . . . . . 33.00 ea. (10+) . . . . . 30.00 ea.
92214P	*Design Plus* universal support stand. For use with HP LaserJet, HP 2932/33/34, HP 2563A printers and small HP plotters. Comes with printout catcher shelf, casters and leveling glides. Has slot in top for bottom feeding and slot in door top for front feeding. Also has sound control pad on door and two interior walls.	28.4 in. (720 mm)	23.6 in. (600 mm)	17.7 in. (450 mm)	(1–2 units) . . . . . $275.00 ea. (3+) . . . . . 245.00 ea.

Design Plus furniture compatibility guide

Equipment	Recommended cabinet
HP 9000, Series 300/500	**92211R** Mini-rack system cabinet.
HP 3000 Series 37, Micro 3000, Micro 3000 XE	Comes mounted in **92211R** cabinet. For larger configurations of disc and tape support, order an additional **92211R** cabinet.
HP 9000 model 217, Series 300/550	**92211L** Mobile support cabinet. Computers mount in cabinet. Has space for two additional disc or tape peripherals.
HP 9000 model 237, Series 300	**92211M** Small mobile support cabinet. Computer sits on top of cabinet. Two additional disc or tape peripherals will mount in cabinet.

Design Plus accommodates the following mass storage devices:

7941A 24m-byte fixed disc drive
7942A 24m-byte fixed disc/tape drive
7945A 55m-byte fixed disc drive
7946A 55m-byte fixed disc/tape drive
9122D 3.5-in. dual-sided drive
9125S 5.25-in. floppy disc drive
9133D 15m-byte winchester/floppy drive
9133V 6m-byte winchester/floppy drive
9133XV 15m-byte winchester drive
9134D 15m-byte winchester drive
9134XV 15m-byte winchester drive
9144A cartridge tape drive

HP Standard Furniture: solid, expandable and economical

HP Standard furniture is solidly built to handle personal computers, terminals, printers, plotters and disc drives. You can put together the workstation you initially need on a modest scale and easily add accessory pieces as your needs grow. Every piece is color-coordinated to match HP computers and peripheral products. Durability and convenience are yours, at economical prices!

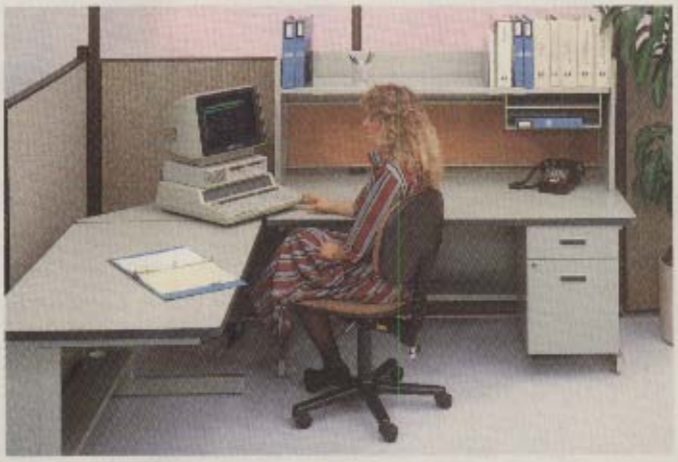
Buy a bundle and save up to $100

The Professional Workstation

For maximum work and storage space. It features a large, glare-free work surface area, 90-degree turn for PC or terminal, built-in cable management, drawer unit to mount on either side of the table, a desktop storage unit and space for optional suspended drawers. Included are:
92210A Compact table
92210B Standard table
92210G Desktop storage shelf
92210Q Suspended drawer unit
92210V 90-degree tabletop connector

Save $100!

92210AA Professional Workstation ..... $1090.00 ea.



The Administrative Support Workstation

For compact areas this space-saving workstation has an extension (return) that can be mounted on either side of its table, suspended drawers you can mount on either the table or the return and built-in cable management. All surfaces are glare-free. Included are:
92210B Standard table
92210Q Suspended drawer unit
92210E Workstation extension (return)

Save $50!

92210BB Administrative Support Workstation ..... $675.00 ea.

For information on our ergonomic chairs, just turn to page 90. And remember...our prices include the cost of shipment to you. See center of catalog for details.

The Team Workstation

For sharing computers and peripherals within your department. This economical workstation includes an adjustable keyboard surface, storage module for equipment or documentation, built-in cable management and glare-free work surfaces. Included are:
92210C Standard table with right-hand adjustable keyboard section
92210R Storage module

Save $40!

92210CC Team Workstation ..... $445.00 ea.

(NOTE: The cabinet in photo is not included in bundle. See page 88 for information.)

Just turn the page for complete product descriptions.

Order from your local HP dealer
Call 800-367-4772 for nearest location

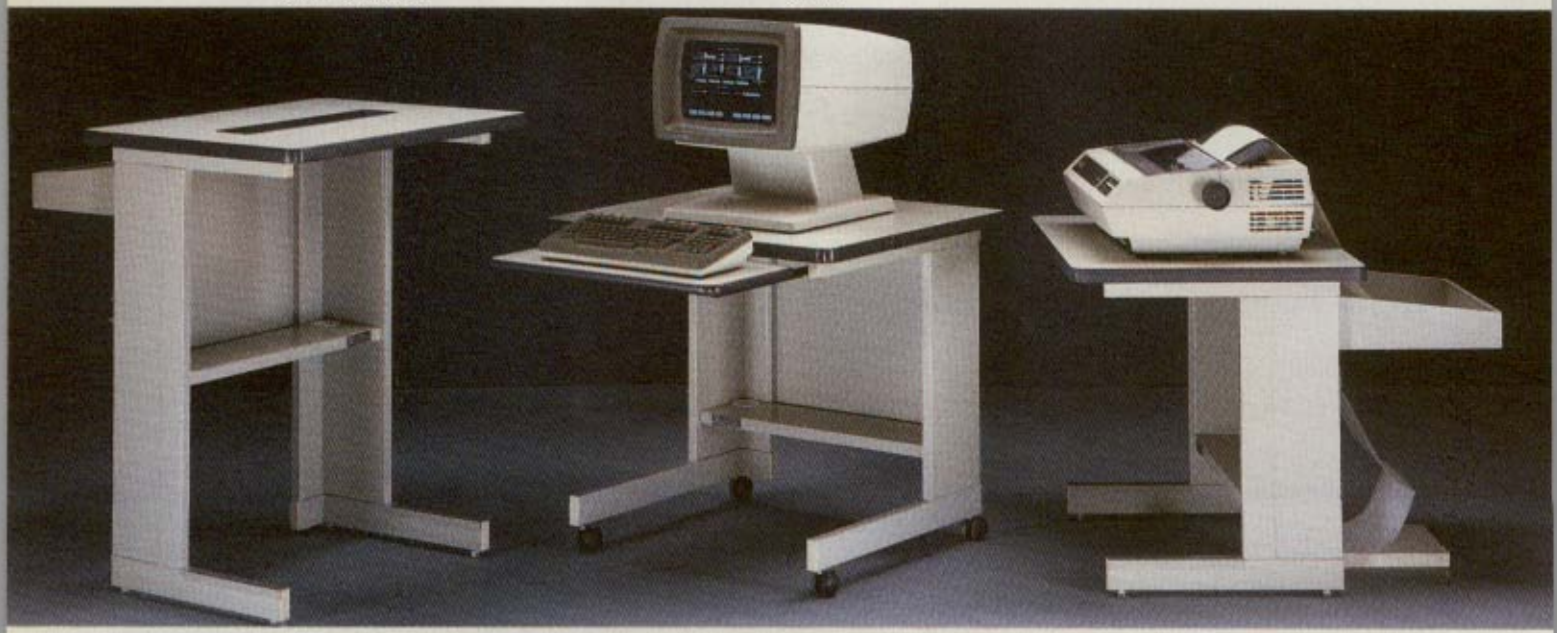
HP Standard furniture

	Part no.	Description	Height	Width	Depth	Price
	92210A	Compact workstation table, with leg levelers and modesty panel. 7-in. (178 mm) shelf standard. See 92210L casters next page to adapt table height to 28.4 in. (720 mm).	27.0 in. (686 mm)	48.0 in. (1220 mm)	30.0 in. (762 mm)	(1–2 units) . . . $295.00 ea. (3+) . . . . . 275.00 ea.
	92210B	Standard workstation table, with leg levelers and modesty panel. 7-in. (178 mm) shelf standard. See 92210L casters next page to adapt table height to 28.4 in. (720 mm).	27.0 in. (686 mm)	60.0 in. (1524 mm)	30.0 in. (762 mm)	(1–2 units) . . . $345.00 ea. (3+) . . . . . 325.00 ea.
	92210C	Workstation table with right-hand adjustable keyboard section. Leg levelers, modesty panel and 7-in. (178 mm) shelf standard. Keyboard section starts 3 in. (76 mm) from the right side, adjusts down a total of 2.1 in. (53 mm) from table top and can be tilted 10 degrees from the horizontal. Manual adjustments. See 92210L casters next page to adapt table height to 28.4 in. (720 mm).	29.0 in. (736 mm) **Adjustable keyboard dimensions** 1.2 in. (30 mm)	60.0 in. (1524 mm) 24.0 in. (610 mm)	30.0 in. (762 mm) 10.0 in. (254 mm)	(1–2 units) . . . $390.00 ea. (3+) . . . . . 350.00 ea.
	92210D	Workstation table with left-hand adjustable keyboard section. Leg levelers, modesty panel and 7-in. (178 mm) shelf standard. Keyboard section starts 3 in. (76 mm) from the left side, adjusts down a total of 2.1 in. (53 mm) from the table top and can be tilted 10 degrees from the horizontal. Manual adjustments. See 9221L casters next page to adapt table height to 28.4 in. (720 mm).	29.0 in. (736 mm) **Adjustable keyboard dimensions** 1.2 in. (30 mm)	60.0 in. (1524 mm) 24.0 in. (610 mm)	30.0 in. (762 mm) 10.0 in. (254 mm)	1–2 units) . . . $390.00 ea. (3+) . . . . . 350.00 ea.
	92210E	Work surface extension (return), with leg levelers and modesty panel. Fits right or left side of **92210B** table, left side of **92210C,** right side of **92210D.** Requires use of 'Z' bracket (included) when mounting on **92210C/D. Not for 92210A.**	27.0 in. (686 mm)	40.0 in. (1016 mm)	24.0 in. (610 mm)	(1–2 units) . . . $185.00 ea. (3+) . . . . . 170.00 ea.
	92210W	Task light unit. Screws into place underneath the **92210F/G/Z** desktop storage units. Includes 20-watt fluorescent bulb, lens and power cord wire management clips. UL listed and CSA approved.	2.0 in. (50.8 mm)	24.0 in. (610 mm)	6.6 in. (168 mm)	(1–2 units) . . . . $99.00 ea. (3+) . . . . . 89.00 ea.

92218H
Stand-up printer/ terminal stand

92210T
Mobile workstation table

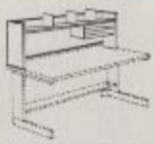
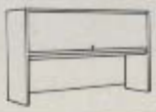
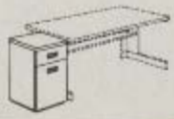
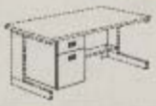
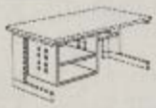
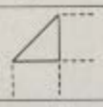
92210P
Printer stand



EASY ASSEMBLY! *A Phillips screwdriver is the only tool needed to assemble HP Standard Furniture. All mounting holes are pre-drilled/tapped, and all hardware and brackets are included.*

Remember! Our prices include the cost of shipment to you (see center of catalog for details).

HP Standard furniture (continued)

	Part no.	Description	Height	Width	Depth	Price
	92210F	Desktop storage shelf for **92210A** workstation table. Includes two book supports and back-wall message board. 11 in. (279 mm) storage shelf adjusts from 15 in. (381 mm) to 21 in. (533 mm) above work surface of table. Convenient paper/ storage shelf included.	23.0 in. (584 mm)	47.0 in. (1194 mm)	12.0 in. (305 mm)	(1–2 units) . . . $215.00 ea. (3+) . . . . . 195.00 ea.
	**92210G**	Desktop storage shelf for **92210B/C/D** workstation table. Includes three book supports and back-wall message board. 11 in. (279 mm) storage shelf adjusts from 15 in. (381 mm) to 21 in. (533 mm) above work surface of table. Convenient paper/ storage shelf included.	23.0 in. (584 mm)	59.0 in. (1499 mm)	12.0 in. (305 mm)	(1–2 units) . . . $235.00 ea. (3+) . . . . . 215.00 ea.
	**92210Z**	Newly revised desktop wide-flipper door storage unit for **92210B/C/D** workstation table. Includes lockable sliding doors and back-wall fabric-covered message board. Space from table top to shelf bottom is 19.5 in. (495 mm).	34.0 in. (864 mm)	59.0 in. (1499 mm)	14.0 in. (356 mm)	(1–2 units) . . . $475.00 ea. (3+) . . . . . 440.00 ea.
	**92210N**	Mobile drawer unit, on casters. Two drawers, with identical key lock all units. Deep bottom drawer like **92210Q** below. Unit rolls easily to any workstation; top same height as **92210A/B.**	27.0 in. (686 mm)	15.4 in. (391 mm)	20.0 in. (508 mm)	(1–2 units) . . . $295.00 ea. (3+) . . . . . 280.00 ea.
	**92210Q**	Suspended drawer unit. Two drawers, with identical key lock units. Deep bottom drawer can store three types of hanging files: letter-size, legal-size, and computer printout binders. Fits right or left side of **92210A/B/C/D** tables.	21.0 in. (533 mm)	14.8 in. (375 mm)	19.4 in. (493 mm)	(1–2 units) . . . $195.00 ea. (3+) . . . . . 178.00 ea.
	**92210R**	Storage module unit, with three-position adjustable shelf. Rear of module is open for ventilation and access to **92210A/B/C/D** cable management system, when module used to hold electronic equipment. Fits right or left side of **92210A/B/C/D** tables.	19.0 in. (483 mm) **Inside module dimensions** 17.0 in. (432 mm)	21.0 in. (534 mm) 19.4 in. (493 mm)	19.4 in. (493 mm) 19.4 in. (493 mm)	(1–2 units) . . . . $95.00 ea. (3+) . . . . . 87.00 ea.
	**92210V**	Workstation tabletop connector. 90-degree triangle. Joins two **92210A/B/C/D** tables together.	Each side	30.0 in. (763 mm)		(1–2 units) . . . $120.00 ea. (3+) . . . . . 110.00 ea.
	92210L	Set of four heavy-duty, double-wheel casters. Use in place of leg levelers on **92210A/B/C/D** tables or **92210P** stand where mobility is desired. Caster height 1.75 in. (45 mm). Adapts height of tables to 28.4 in. (720 mm).				(1–2 units) . . . . $26.00 set (3+) . . . . . 21.00 set
	92210H (see photo previous page)	Standup printer/terminal stand. Design matches HP 92210-series workstation system. Same slotted top and rear printout catcher as 92210P (see below). Height is 38 in. (965 mm), ideal for walk up operation of equipment. Cable management slots, 7-in. (178 mm) shelf standard.	38 in. (965 mm) 29.5 in. (749 mm)	**Work surface** 30 in. (762 mm) **Printout catcher** 17 in. (432 mm)	24 in. (610 mm) 13.5 in. (343 mm)	(1–2 units) . . $265.00 ea. (3+) . . . . . 250.00 ea.
	92210P (see photo previous page)	Printer stand. Design matches HP 92210 series workstation system. Convenient paper feed slot (4 × 19 in., 102 × 483 mm) in top allows bottom paper feed. Also features rear printout catcher with 1.5-in. (38 mm) slot to allow paper transport to rear feed printers. Cable management slots, 7-in. shelf standard.	7 in. (686 mm) 18.5 in. (470 mm)	**Work surface** 30 in. (762 mm) **Printout catcher** 17 in. (432 mm)	24 in. (610 mm) 13.5 in. (343 mm)	(1–2 units) . . $255.00 ea. (3+) . . . . . 240.00 ea.
	92210T (see photo previous page)	Mobile workstation table for terminals. Design matches HP 92210 series workstation system. Features a dropped, pull-out keyboard surface. Cable management slots, locking casters and 7-in. (178 mm) shelf standard.	28.3 in. (720 mm) 26.4 in. (670 mm)	**Work surface** 30 in. (762 mm) **Keyboard surface** 23.5 in. (597 mm)	28 in. (712 mm) 12 in. (305 mm)	(1–2 units) . . $290.00 ea. (3+) . . . . . 270.00 ea.

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Snap together your own custom workstation

Be creative–The MicroManager™ System introduces a practical alternative to custom designed workstations. You can mix and match the snap-together stacking modules into a peripheral stand, monitor cabinet, PC workstation, or whatever your working needs demand. The configurations are practically endless. Expand your workstation to meet your growing needs.

Each module conceals unsightly cables to give you a clean, cable-free appearance. Cable channels run vertically and horizontally throughout the frame of each module. Simply snap off the cable covers to route your cables along the channel system. Snap the cable covers back into place to conceal the cable path. With cables safely hidden, you won't have to worry about tripping over dangling cables when you move the MicroManager around your office.

Channels along each module conceal unsightly cables.

Starting with the basics The base floor unit (92299A) consists of two standard modules stacked together, mounted on a four-wheel base. Mobile and sturdy, it forms a convenient platform for printers, plotters and disc drives.

Store modems, switches and other devices by simply adding on the standard module (92299B) to the base floor unit. You gain a taller mobile unit and more storage space.

Add versatility Mount the pull-out shelf (92299C) between your base floor unit and standard module and gain easy access to your printers, plotters and disc drives.

Add the keyboard drawer module (92299D) to your base floor unit (92299A) and standard module (92299B) and you get a built-in roll-out drawer. The keyboard drawer locks into place to give you solid support for data entry.

Save with PC workstation kits Save time and money–take advantage of our two computer workstation kits. Use the 92299E compact PC workstation for your HP Touchscreen I/II (HP 150 Personal Computers) and Model 16 computers, as well as for your terminals. Use the 92299F compact workstation for your HP Vectra PC. The packaged price will save you money over the cost of modules when purchased individually.

Order what you need now. Later on, add to your workstation as your needs grow. The MicroManager System puts you in control of your budget. See the latest additions to HP's MicroManager™ system on the next page.

Constructed of high-impact styrene, the modules are easily assembled with a screwdriver.

HP MicroManager™ system*

	Part No.	Description	Price
	92299A	Floor Unit. Two standard modules on a locking caster base. 18 in. (457 mm) H × 24.25 in. (616 mm) W × 17.5 in. (445 mm) D.	(1–2 units) . . $109.00 ea. (3–5) . . . . . 103.00 ea. (6–9) . . . . . 98.00 ea. (10+) . . . . . 93.00 ea.
	92299B	Standard module. Can be stacked on 92299A or used on desktop as a printer stand. 7.25 in. (184 mm) H × 24.25 in. (616 mm) W × 17.5 in. (445 mm) D.	(1–2 units) . . . $41.00 ea. (3–5) . . . . . 38.00 ea. (6–9) . . . . . 36.00 ea. (10–) . . . . . 33.00 ea.
	92299C	Pull-Out shelf module. Mounted between two 92299B modules. 1.5 in. (38 mm) H × 24.25 in. (616 mm) W × 17.5 in. (445 mm) D. Shelf: .75 in. (19 mm) H × 20.75 in. (527 mm) W × 15.5 in. (394 mm) D.	(1–2 units) . . . $49.00 ea. (3–5) . . . . . 45.00 ea. (6–9) . . . . . 41.00 ea. (10–) . . . . . 39.00 ea.
	92299D	Keyboard drawer module. Can be stacked on standard modules or used on desktop. 4.5 in. (114 mm) H × 24.25 in. (616 mm) W × 17.5 in. (445 mm) D. Drawer: 2.6 in (66 mm) H × 20.4 in. (518 mm) W × 10 in. (254 mm) D.	(1–2 units) . . . $95.00 ea. (3–5) . . . . . 90.00 ea. (6–9) . . . . . 87.00 ea. (10+) . . . . . 83.00 ea.
	92299E	Compact PC workstation kit for HP Touchscreen I, II, Model 16 computers. Combination of 92299A/B/C/D. 30.5 in. (775 mm) H × 24.25 in. (616 mm) W × 17.5 in. (445 mm) D. Simple assembly required.	(1–2 units) . . $270.00 ea. (3–5) . . . . . 260.00 ea. (6–9) . . . . . 250.00 ea. (10–) . . . . . 240.00 ea.
	92299F	Compact workstation kit for Vectra PC. Combination of 92299A, 92299B, a special ½ height module, and 92299C (two each). 31.75 in. (806 mm) H × 24.25 in. (616 mm) W × 17.5 in. (445 mm) D. Simple assembly required.	(1–2 units) . . $260.00 ea. (3–5) . . . . . 250.00 ea. (6–9) . . . . . 240.00 ea. (10–) . . . . . 230.00 ea.

*All modules come in cream-gray color.

Workstations that grow along with your needs

With the help of the MicroManager™ System your office can be quickly organized. These compact units can be set up in almost endless configurations to make customized desktop stands, peripheral stations, or mobile work areas. Later, when you add new equipment or rearrange the office, you can interchange the modules or add new modules in a snap.

The stands are sturdy enough to hold CRT monitors, CPUs, printers or plotters. Each standard module contains concealed channels through which cables can be routed to reduce wire clutter. See facing page for the basic line of MicroManager components.

Place your work at the right angle Free up more space by attaching a copy holder (92299K) to the corner of any standard unit. This handy snap-on device is a must when data entry and word processing are your main activities. The viewing angle revolves 360 degrees so that documents can be positioned right where the operator can comfortably see and work with them. Combine the copy holder with a keyboard drawer unit (92299D) or your PC workstation (92299E/F) to form a complete data entry workstation.

Add to your work space Attach the side tray (92299J), shown in photo at left, to any standard module and gain extra surface area to spread out your work. It conveniently holds documents, flexible disk boxes, and other small accessories. The tray mounts on the front and rear corner channels. Two "snap-on" brackets are included to support up to 10 pounds of weight (4.5 kg).

Store plotter supplies in one place—right with the plotter With a mobile plotter station (92299G) your HP plotter and all the pens, paper, and film used with it are conveniently organized in one compact unit. And it easily rolls into place wherever it's needed in the office. The plotter station consists of a floor unit (92299A), a custom plotter drawer that extends and retracts on ball bearing slides, and a standard module (92299B). Inside the plotter drawer are three storage bins, an organizer for 20 pens, space for two plotter pen carousels, a tray for paper and a tray for packaged pens. Extra paper and transparency film store on bottom shelves.

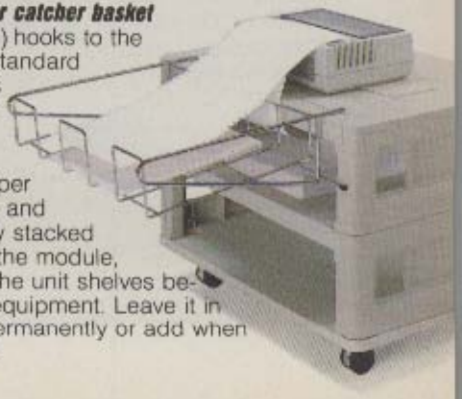
HP MicroManager™ accessories

	Part no.	Description	Price
	92299G	Mobile Plotter Station* for HP ColorPro, 7470A, and 7475A plotters. Floor unit and standard module (92299A/B) combined with special plotter drawer. 26.25 in. (667 mm) H × 24.25 in. (616 mm) W × 17.5 in. (445 mm) D.	(1–2 units) .. $249.00 ea. (3–5) ..... 239.00 ea. (6–9) ..... 225.00 ea. (10+) ..... 210.00 ea.
	92299J	Side Tray.* Can be mounted on 92299G or 92299E/F, or any standard module. ½ in. (12.7 mm) H × 9⅞ in. (251 mm) W × 17.5 in. (445 mm) D.	(1–2 units) ... $17.00 ea. (3–5) ..... 16.00 ea. (6–9) ..... 15.00 ea. (10+) ..... 14.00 ea.
	92299K	Copy Holder.* Mounts into corner of 92299G or 92299E/F, or any standard module. 9.5 in. (241 mm) W × 12.5 in. (318 mm) H.	(1–2 units) ... $34.00 ea. (3–5) ..... 32.00 ea. (6–9) ..... 29.00 ea. (10+) ..... 27.00 ea.
	92299L	Paper Refold Guide. Wire guide hooks onto back of module. 7.5 in. (191 mm) H × 18 in. (457 mm) W × 2 in. (51 mm) D.	(1–2 units) ... $17.00 ea. (3–5) ..... 16.00 ea. (6–9) ..... 15.00 ea. (10+) ..... 14.00 ea.
	92299M	Paper Catcher Basket. Wire basket hooks onto back of module. 4.5 in. (114 mm) H × 18 in. (457 mm) W × 16 in. (406 mm) D.	(1–2 units) ... $34.00 ea. (3–5) ..... 32.00 ea. (6–9) ..... 29.00 ea. (10+) ..... 27.00 ea.

*Constructed of high-impact styrene, in cream-gray color.

Paper refold guide (92299L) hooks onto the rear of any module to direct printouts into the module shelf below. The guide allows you to feed, print, and smoothly refold a stack of paper 5¾-inches (140 mm) high, yet only increases the depth of the unit by 2-inches (51 mm).

The paper catcher basket (92299M) hooks to the rear of standard modules to catch lengthy printouts. Paper is neatly and smoothly stacked outside the module, freeing the unit shelves below for equipment. Leave it in place permanently or add when needed.



Locking mobile PC Centre saves space, adds security

HP's Mobile PC Centre—space efficient in dimension and spacious in design. It stands 4½ feet (1.31 m) high and takes up a minimum of floor space. Yet it has lots of room for your computer/terminal, disc drive and printer as well as your software, diskette holder, printer paper and other supplies. With no computer clutter on your desk you gain more work surface and more space for your other office needs.

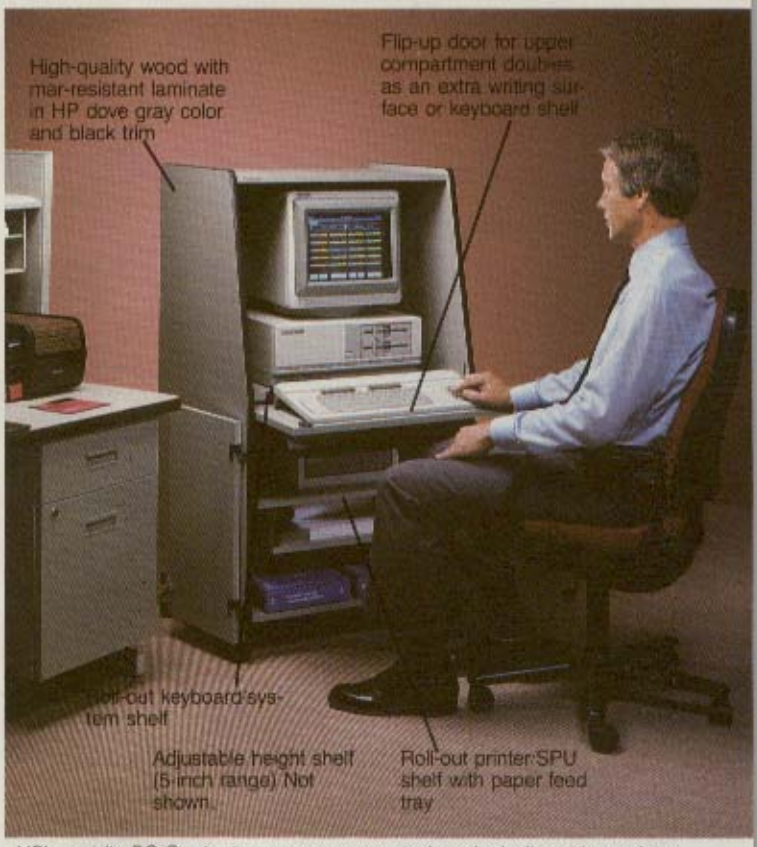
You can easily maneuver this PC Centre behind, or next to, your desk, or anywhere you want your computer system to be. And when you're through for the day, simply slide in the roll-out shelves, close the doors and lock your PC Centre. No need to worry about the security of your computer equipment and invaluable data!

Top shelf accommodates any of the following HP computers and terminals: HP Vectra PC, Touchscreen/Touchscreen II (HP 150 Personal Computers), the Model 16 Technical Computer, and the 239X Series Terminals. Middle shelf will support either one of the HP InkJet Series Printers or 2603A Daisywheel Printer. Dimensions: 48.5 in. H × 25.9 in. W × 23.7 in. D (1,232 mm × 658 mm × 602 mm).

92208A Mobile PC Centre

(1–2 units)	$659.00 ea.
(3–9)	629.00 ea.
(10+)	595.00 ea.

The PC Centre is shipped unassembled and requires assembly with simple tools.



HP's mobile PC Centre keeps your computer/terminal, disc drive, printer, software, and other supplies all in one secure place.

HP mobile files store data out-of-sight until needed

Do you have stacks of files, printouts, or magnetic media that are taking up valuable work space, but are too important to throw away? With HP's mobile file units, you can store materials in a convenient corner or under a desk, rolling them out only when needed. And they're great for sharing reference material with co-workers. Smooth-gliding casters make it easy to move files from one area to another.

These practical drop-filing systems are available in both a compact and large size. The compact file is designed to fit under almost any desk or workstation, yet still offer a full 13.5-inches (343 mm) of horizontal filing capacity.

The larger file has an even greater horizontal filing capacity of 24 inches (610 mm), so you can move reams of data wherever needed. And while you're seated, its convenient chair-level height keeps files within easy reach.

Both files are all steel construction and cream gray in color. Casters are black. Simple assembly is required.

See next page for HP data binders and page 64 for magnetic media hanging files.

92272N Compact mobile file unit: 18.75 in. H × 16.5 in. L × 14.75 in. D (476 × 419 × 375 mm). Depth is adjustable up to 16.75 in. (424 mm).

(1–2 units)	$67.00 ea.
(3+)	59.00 ea.

92272M Mobile file unit: 24 in. H × 27 in. L × 20 in. D (610 × 686 × 508 mm). Depth is adjustable up to 17.5 in. (446 mm).

(1–2 units)	$139.00 ea.
(3+)	129.00 ea.

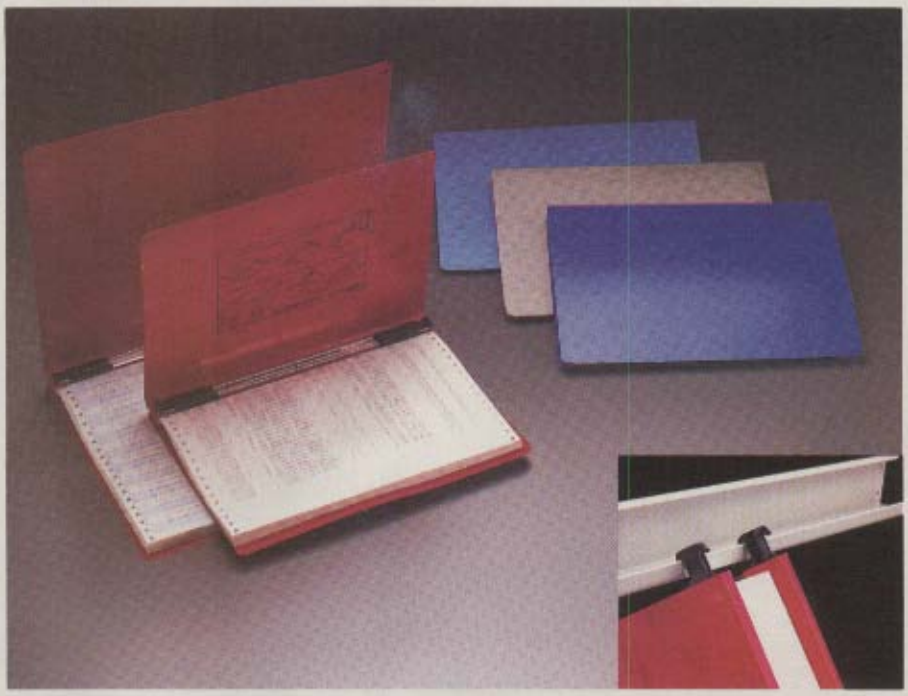
Store, protect laser and standard printouts in HP binders

Laser printout binders are made specifically to accommodate your 12- by 8.5-inch (305 mm × 216 mm) 2680 laser printouts. Their compact design will keep your frequently used printouts intact, neatly organized and protected from rips, tears and rough handling. See chart below.

Features:

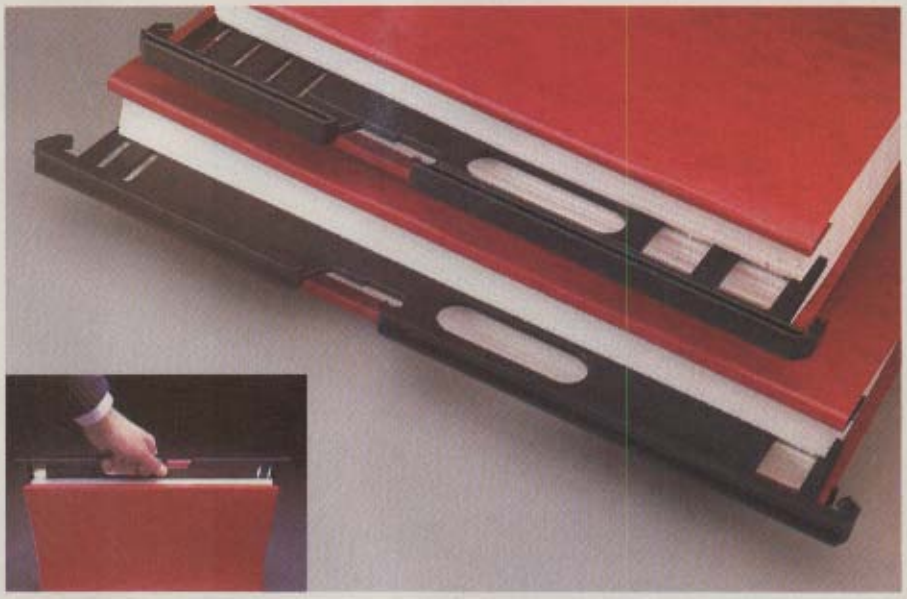
- Loading from the top or bottom for easy updating.
- Special slide-out suspension hooks for easy adaptation to drop filing.
- Specially coated 20-point pressboard covers which provide more resistance to moisture, stain and wear than regular pressboard.
- Unbreakable plastic-coated steel posts that hold up to 6 inches of unburst printouts.

Standard printout binders. The same sturdy binders described above are also available in additional sizes to house your standard 14.8- × 11-inch (376 mm × 279 mm) printouts and 9.5 × 11-inch (241 mm × 279 mm) fanfold documents. See chart below.



Data binder handles convert binders which do not have slide-out suspension hooks to single point suspension featured in the 92272 storage cabinets. Both handles have the additional capability of center point suspension which will help increase space in your 92272 cabinets.

These handles are made of tough, durable plastic, have a hand slot for easy carrying and can be used in a drop filing situation. They also can be used with the 92174-series binders to serve as convenient carrying handles for larger printouts.



Be sure to see HP's practical, easy-rolling file units on page 84.

HP Data binders

Part no.	Color	Description (10 binders per box)	Price
92174A 92174B 92174C 92174D	red gray light blue dark blue	14.8 × 11-in. (376 × 279 mm) binder. Holds up to 6 in. of unburst forms.	(1–4 boxes) . . . $34.00 ea. (5–9) . . . . . 32.00 ea. (10+) . . . . . 30.00 ea.
92174E 92174F 92174G 92174H	red gray light blue dark blue	12 × 8.5-in. (305 × 216 mm) binder. Holds up to 6 in. of unburst forms.	
92174J 92174K	red dark blue	9.5 × 11-in. (241 × 279 mm) binder. Holds up to 6 in. of unburst forms.	

Quantity discounts apply to purchase of single color only.

HP Data binder handles

Part no.	Color	Description (10 handles per box)	Price
92272K	Black	14-in. data binder handle. Converts 12 × 8.5-in (305 × 216 mm) data binders *not* having slide-out suspension hooks to single point suspension.	(1 box). . . . . $42.00 ea. (2+) . . . . . 36.00 ea.
92272L	Black	17-in. data binder handle. Converts 14.8 × 11-in. (376 × 279 mm) data binders *not* having slide-out suspension hooks to single point suspension.	(1 box). . . . . $42.00 ea. (2+) . . . . . 36.00 ea.

Quantity discounts apply to purchase of single product only.

It's easy to order: 800-538-8787

"Remember–Our listed prices include shipment to you!"

HP storage cabinets offer versatility and convenience plus!

Our line of cabinets offers you a more versatile, preconfigured system that will help save time and better organize your filing and storage needs.

They come pre-assembled in five common configurations so you don't have to build them–they arrive ready to use.

Another outstanding feature is the side-opening tambour door. No more bending or reaching to open and close your cabinet door. It glides open easily and when closed, locks to protect your stored data and media.

Other standard features:

- All steel construction.
- Three cabinet heights to fit your storage needs.
- Fixed and roll-out shelves for three-ring binders, disc cartridges and packs.
- Hanger bars for data binders and mag tape in seals.
- Optional oak woodgrain top for small and medium height cabinet tops.
- Extra accessories for special storage requirements.

With an attractive cream-gray finish, these cabinets are a perfect complement to HP *Design Plus* and HP Standard furniture, or any other office environment.

Also available are small and large data binder handles that convert standard data binders to single point suspension units. All hanger bars in the 92272 Series cabinets require a single or center point suspension capability for data binders. HP data binders, 92174A–H and J–K (page 85) already support single point suspension.

Finally, we pay the freight! That's right, we pay the freight to your location. No freight bill surprise when your cabinet arrives. Call and order today. Do allow extra time for delivery as these cabinets are shipped by truck.

Media and documentation storage cabinet guide (ordering information page 88)

Part no.	Cabinet description		Dimensions Height	Width	Depth	Weight	Installed components Fixed shelf	Hanger bars	Roll-out shelves
92272A	Workstation storage	Outer:	38.5 in. (98 cm)	36.5 in. (93 cm)	21.0 in. (53 cm)	148 lbs. (67.3 kg)	1		2
		Inner:	33.0 in. (84 cm)	31.0 in. (79 cm)	18.6 in. (47 cm)				
92272B	Medium storage	Outer:	60.0 in. (152 cm)	36.5 in. (93 cm)	21.0 in. (53 cm)	227 lbs. (103.2 kg)	1	1*	2
		Inner:	54.8 in. (139 cm)	31.0 in. (79 cm)	18.6 in. (47 cm)				
92272C	Printout/documentation storage*		Same as 92272B above			198 lbs. (90.0 kg)	1	2*	
92272D	Mag tape storage	Outer:	84.0 in. (213 cm)	36.5 in. (93 cm)	21.0 in. (53 cm)	249 lbs. (113.2 kg)		5*	
		Inner:	78.5 in. (199 cm)	31.0 in. (79 cm)	18.6 in. (47 cm)				
92272E	Large storage		Same as 92272D above			292 lbs. (132.7 kg)	1	2*	2
92272F	Library storage rack		79.5 in. (200 cm)	48.5 in. (123 cm)	13.2 in. (33 cm)				

*Mag tape-in-seals hang directly on bars. Printout documentation requires 92174-series HP data binders or 92272K/L data binder handles to hang on bars.

Cabinet accessories

92272G Hanger bar for data binders and mag tape. Holds 34 tapes-in-seals.
(1 bar) ..... $43.00 ea.
(2+) ..... 38.00 ea.

92272H Fixed shelf for documentation binders and miscellaneous items.
(1 shelf) ..... $55.00 ea.
(2+) ..... 49.00 ea.

92272J Oak top for 92272A/B/C cabinets. (Top is simulated oak woodgrain)
(1 top) ..... $65.00 ea.
(2+) ..... 55.00 ea.

92272K Data binder handles. Converts 12 × 8.5-inch data binders to single-point or center-point suspension for hanging on hanger bars. Handle length is 14 inches. Not needed if using HP data binders unless you want to convert to center-point suspension. Comes in box of 10.
(1 box) ..... $42.00 ea.
(2+) ..... 36.00 ea.

92272L Data binder handles. Converts 14.8 × 11-inch data binders to single point or center point suspension for hanging on hanger bars. Handle length is 17 inches. Not needed if using HP data binders unless you want to convert to center point suspension. Comes in box of 10.
(1 box) ..... $42.00 ea.
(2+) ..... 36.00 ea.

Exclusively Ergo

Vertical filing system in our new storage cabinets reduces the risk of back injuries (you need not lift items, you pull) and of stacked items falling on you while you're removing specific supplies from a shelf. It also allows you easier visual identification of filed items, thus, eliminating unnecessary waste of time. Detailed descriptions of our new cabinets appear on page 88.

For more cabinet accessories, see pages 84-85.

Remember! Our prices include the cost of shipment to you (see center of catalog for details).

HP storage cabinets . . . pre-assembled and space-efficient

92272A Workstation storage cabinet.* Comes with one fixed shelf and two installed roll-out shelves. See chart page 87 for dimension details.
(1 cabinet) ..... $825.00 ea.
(2+) ..... 780.00 ea.

*Shown with optional 92272J oak top

92272B Medium storage cabinet.* Comes with one fixed shelf, two roll-out shelves and one installed hanger bar. See chart page 87 for dimension details.
(1 cabinet) ..... $990.00 ea.
(2+) ..... 940.00 ea.

92272C Printout/documentation storage cabinet.* Comes with one fixed shelf and two installed hanger bars. See chart page 87 for dimension details.
(1 cabinet) ..... $825.00 ea.
(2+) ..... 785.00 ea.

92272D Mag tape storage cabinet. Comes with five installed hanger bars. Holds 170 tapes-in-seals. See page 87 for dimension details.
(1 cabinet ..... $900.00 ea.
(2+) ..... 855.00 ea.

92272E Large storage cabinet. Comes with one fixed shelf, two roll-out shelves, and two hanger bars. See chart page 87 for dimension details.
(1 cabinet) ..... $1125.00 ea.
(2+) ..... 1050.00 ea.

92272F Library tape storage rack for high-density tape storage at minimum cost. Up to 300 tape reels in seals may be stored in any combination of 600-foot, 1200-foot or 2400-foot reels. Some assembly is required.
(1 rack) ..... $335.00 ea.
(2+) ..... 308.00 ea.

Remember! Our listed prices include shipment to you (see center of catalog for details).

Eliminate that plotter noise!

Do you have sensitive ears? Our all-new Plotter Sound Enclosure reduces the sound of your HP 7470, 7475 or ColorPro plotter by as much as 90%, to as low as 53.4 decibels. Your plotter becomes as quiet as a murmur...less intrusive than the sound of computer keyboarding. It's a wonderful way to improve office productivity.

The most functionality you'll find in a sound enclosure An intelligent design negates the need for an annoying cooling fan. It's constructed of sound-swallowing particle board, with foam lining to absorb plotter vibrations. A foam plug can be removed to facilitate extra-long plotter paper, then re-inserted for further sound reduction. And the durable acrylic lid is attached by spring-loaded hinges for effortless opening and closing. Dimensions are 12 in. (305 mm) H × 25.8 in. (605 mm) × 18.9 in. (480 mm) D; stand measures 3.9 in. (10 cm) H.

Designed to complement your HP equipment This Plotter Sound Enclosure is designed to coordinate with HP LaserJet printers and printer sound enclosures, as well as our computers and Design Plus furniture. What's more, its design allows space for our 92177W/X Graphics Organizer underneath for additional convenience (see page 38).

Extra protection for your plotter This Plotter Sound Enclosure protects your plotter investment, too. It's a shield against dust, spills and environmental contaminants—just as it shields *you* from unwanted noise.

92166E Plotter sound enclosure $249.00

Muffle dot-matrix printer clatter!

Our Mobile Sound Enclosure Cabinet is designed to make the HP 293X Dot Matrix Printer easy on your ears.

This cabinet totally encases your printer against dust and moisture while it absorbs noise. Inside, there's a sturdy shelf for your printer and ample storage for continuous-feed paper. The wide front door has a handy finger-pull opener (added since we took this photo—it's just like the one on the LaserJet Printer Cabinet, page 77), and the top swings up on gas-cylinder lifts. Monitor your printing through the attractive acrylic top panel; printed copies exit from the rear of your printer into a convenient paper-catcher tray at the cabinet's rear.

The Mobile Cabinet is the perfect height for Design Plus furniture, and rolls smoothly on self-locking casters. Exterior dimensions are 28.4 in. (720 mm) H × 29.5 in. (750 mm) W × 19.7 in. (500 mm) D. Now comes fully assembled.

92211C Design Plus Mobile Sound Enclosure Cabinet

(1 unit) ..... $675.00 ea.
(2+) ..... 640.00 ea.

Absorb printer sound!

Help quiet your HP 2601A/2602A or other printers. Distracting printer noise and vibrations are minimized when this sound absorbing pad is placed under your printer. Sound and vibrations first penetrate through the pad's nylon surface, then further are absorbed into the sponge-like layers of natural rubber. This sound absorbing pad will provide firm support for your printer and is highly resistant to indenting and sliding. Size is 18 in. (457 mm) × 21 in. (559 mm). Order several and save!

92177B Sound absorbing pad

(1 pad) ..... $31.00 ea.
(2–4) ..... 25.00 ea.
(5+) ..... 21.00 ea.

It's easy to order: 800-538-8787

Left to right–92209G/E/F Ergonomic workstation managerial chair, 92209M Ergonomic executive chair, 92209S Ergonomic workbench chair.

HP ergonomic chairs–
extra comfort at exceptional value

HP Ergonomic executive chair. Ultimate comfort is yours with this chair which features:

- Thickly padded seat.
- Back support (lower lumbar, mid- and upper-back).
- Synchro-sit mechanism (as the back is tilted backward or forward, seat moves in same direction.)
- Gas cylinder height and back tilt adjustments.
- Seat/back adjusts with body movement and can be locked into floating position.
- Self-braking casters.

Comes in rust, dove blue and beige.

HP Ergonomic workstation/managerial chair. Maintain your budget while improving your comfort and productivity with this new line of ergonomic chairs. Its value-packed features include:

- Gas cylinder height- and back-tilt adjustments.
- Mechanical back-height and seat-tilt adjustments.
- Self-braking casters.
- Optional set of arms.

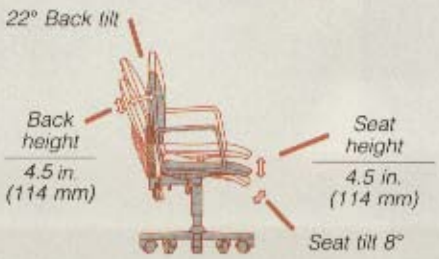
With the easily-installable set of arms you can convert this workstation chair into the attractive but affordable managerial chair. Comes in rust, dove blue and beige.

HP Ergonomic workbench chair. Perfect for those who sit at graphics workstations, CAD/CAM stations or other areas that have elevated work surfaces. Features include:

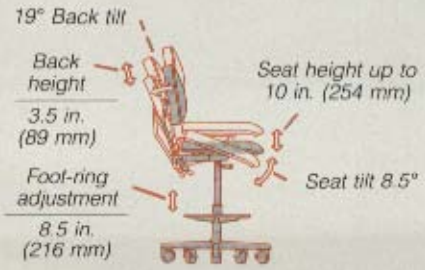
- Gas cylinder back-tilt and seat-cushion height adjustments.
- Mechanical back-height and seat-tilt adjustments.
- Foot ring adjustments.
- Optional casters.

Available in dove blue.

92209M/N/P Executive chair



92209E/F/G Workstation/managerial chair



Chair shown with optional casters.

92209S Workbench chair

"If you're like me, you probably spend more time than you'd like seated at your desk, conference table or workstation.

And if you do spend much of your workday in a chair, your productivity and end-of-day fatigue relate directly to the comfort of your chair.

That's why I want you to know that this office chair I've used over the past three years is the best chair I've ever had.

Staying comfortable in a chair is not, for me, a simple matter. I'm tall (6 feet 5 inches) and like many of you, my lower back gives me trouble. The lumbar support in this chair certainly relieves lower spinal pressures, while the high chair back provides support to my upper spine and shoulder area during long phone calls or meetings.

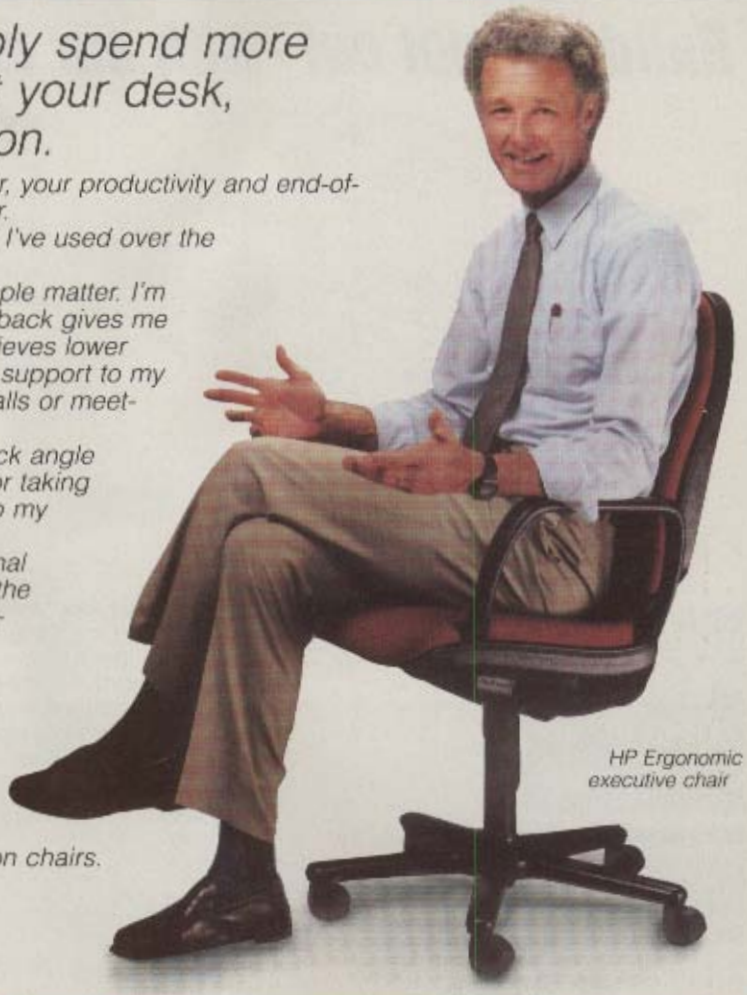
And it's so easy to change the seat height and back angle that I probably do it 10 times a day. Like stretching or taking a stroll, it just seems to relieve tension and loosen up my muscles.

I'm so convinced that these chairs increase personal productivity that I have made them our standard for the entire Direct Marketing Division–including our conference rooms.

They're that good!"

Will Carleton, General Manager
HP Direct Marketing Division

P.S. By the way, comfort does not have to mean premium prices. Check out our ergonomic workstation chairs.



HP Ergonomic executive chair

HP Ergonomic executive chair with arm support

Part no.	Color	Seat	Chair back	Weight	Price
92209M	Rust	**Height** 16.8–21.5 in. (430–550 mm)	**Height** 38.2–42.9 in. (980–1100 mm)	30.8 lbs.	(1–2) ..... $595.00 ea.
92209N	Dove blue	**Depth** 17.2 in. (440 mm)	**Depth** 23 in. (590 mm)	(14 kg.)	(3+) ..... 545.00 ea.
92209P	Beige	**Width** 17.6 in. (450 mm)	**Width** 17.9 in. (460 mm)		

HP Ergonomic workstation/managerial chair

Part no.	Color	Seat	Chair back	Weight	Price
92209E	Rust	**Height** 17.0–21.5 in. (432–546 mm)	**Height** 34.0–38.5 in. (846–978 mm)	25.0 lbs.	(1–2) ..... $265.00 ea.
92209F	Dove blue	**Depth** 17.0 in. (432 mm)	**Depth** 24.0 in. (610 mm)	(11.4 kg.)	(3–9) ..... 246.00 ea.
92209G	Beige	**Width** 18.0 in. (457 mm)	**Width** 18.2 in. (462 mm)		(10+) .... 238.00 ea.
92209K	Dark brown	Arm set		5 lbs.	(1–2) ..... $79.00 ea. (3–9) ..... 69.00 ea. (10+) ..... 65.00 ea.

In addition to adjustable seat height, the **92209E, F,** and **G** chairs also feature a mechanically adjustable seat back.

HP Ergonomic workbench chair

Part no.	Color	Seat	Chair back	Weight	Price
92209S	Dove blue	**Height** 22.2–32.2 in. (564–818 mm) **Depth** 17.6 in. (447 mm) **Width** 18.9 in. (480 mm)	**Height** 34.9–43.75 in. (886–1111 mm) **Depth** 19.5 in. (495 mm) **Width** 18.9 in. (480 mm)	30 lbs. (13.6 kg)	(1–2) ..... $425.00 ea. (3–9) ..... 395.00 ea. (10+) .... 385.00 ea.
92209L	Dark brown	Caster set		5 lbs.	(1–2) ..... $35.00 ea. (3–9) ..... 30.00 ea. (10+) ..... 8.00 ea.

Build up–not out–with our desktop space-savers

Keyboard park features a lower profile—only 2.6 in. (65mm) high—and will support HP's 2392 and 2394 Terminals as well as HP Touchscreen (HP 150) personal computers. Constructed of sturdy formed and bonded acrylic plastic. Exterior dimensions are: 2.6 in. (65 mm) H × 20 in. (505 mm) W × 11.2 in. (285 mm) D. (See 92171J keyboard park with HP's 2392A Terminal on page 116.)

92171J Keyboard park

(1–2 units)	$75.00 ea.
(3–9)	66.00 ea.
(10+)	60.00 ea.

Vectra PC rack-mount shelf kit. Now you can mount your Vectra PC processing unit in any standard 19 in. EIA rack cabinet with a shelf kit specifically designed to fit the Vectra footprint. Note: A rail kit is required to complete installation. For HP EIA racks, order 12679B Rail kit.

35199A Vectra PC rack-mount shelf

(1–9)	$79.00 ea.
(10–24)	72.00 ea.

12679B Rail kit ..... $60.00 ea.

Vectra PC keyboard park. When you're through with your keyboard, slide it into its keyboard park. You'll gain valuable desktop space and protect your keyboard from accidental spills. Constructed of wood with mar-resistant laminate, this park will easily support your Vectra PC, monitor and other small items. Exterior dimensions: 4.1 in. (104 mm) H × 23.6 in. (599 mm) W × 15.5 in. (394 mm)

92171Z Vectra PC keyboard park

(1–2 units)	$99.00 ea.
(3–9)	95.00 ea.
(10+)	89.00 ea.

Keyboard drawer park. Is your work surface too narrow to accommodate both a computer or terminal *and* its keyboard? We have the perfect solution for HP 262X, 2393, and 2397 Terminals and HP 120/125, Touchscreen (HP 150), Touchscreen II (HP 150 II), Vectra PC and Model 16 computers. The 92171C park features a drawer mounted on industrial strength ball bearing glides that can be pulled out a full 11 in. from the support stand. Constructed of 14-gauge steel, the drawer will support up to 100 pounds (45 kg) and can be locked in the open position for stability. Also features a built-in palm rest. Color is pearl gray. Support platform dimensions are: 5 in. (127 mm) H × 23 in. (584 mm) W × 18 in. (457 mm) D. Keyboard drawer size is 22 in. (559 mm) W × 9.75 in. (245 mm) D.

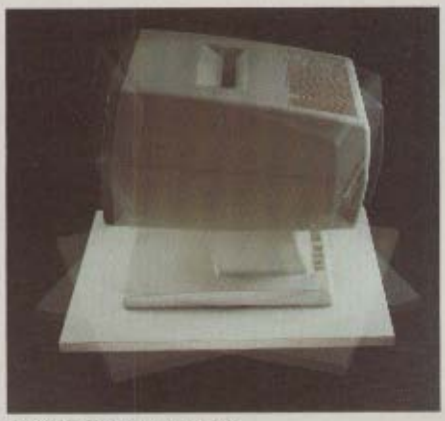
92171C Keyboard drawer park

(1–2 units)	$95.00 ea.
(3–9)	87.00 ea.
(10+)	82.00 ea.

Free surface delivery!

92171T Display turntable for properly positioning and sharing terminals. Turns 360 degrees on a strong, positive-position ball-bearing mechanism (limited by cabling). Color matches HP's standard workstation furniture (92210). Exterior dimensions: height 1.25 inches (32mm); width 20 inches (508mm); depth 24 inches (610mm).

(1–2 turntables) ..... $67.00 ea.
(3+) ..... 64.00 ea.



92171T Display turntable

Left–92171A, Right–92171B

92171A Clamp-on copy holder is easily adjusted; you can position it where you need it to most conveniently reference your copy.

It clamps to vertical or horizontal surfaces up to 1.25 inches (32mm) thick, and has a maximum reach of 30 inches (762mm). The line guide is movable, and friction locks securely hold the position you have selected.

(1–2 holders) ..... $53.00 ea.
(3+) ..... 48.00 ea.

92171B Easel copy holder. Placing this copy holder between detached keyboard and display means less eye strain for your data entry operators. The holder will tilt at the push of a button from zero to 90 degrees. The line guide mechanism is fingertip adjustable and can be used either on the left or right side of the holder, or may be completely removed.

This sturdy plastic copy holder is designed for page sizes up to 14.87×11 inches (378×279 mm) Cream-gray color.

(1–2 holders) ..... $59.00 ea.
(3+) ..... 53.00 ea.

Angled footrest lets you work in comfort

92171E Footrest. Reduce lower back fatigue and circulation-restricting lower thigh pressure–raise your feet off the ground and onto our angled footrest. This is especially helpful for those who sit all day and do data entry or other desk work. Constructed of steel, these footrests also have ribbed rubber facings and non-slip rubber feet. Order several and help others take a load off their feet.

(1–2) ..... $43.00 ea.
(3+) ..... 36.00 ea.

92171E Footrest

Exclusively Ergo

Almost all chairs are designed to accommodate the physical dimensions of only 90% of the population (the fifth to 95th percentile). With a footrest, those under the fifth percentile can be just as comfortable as tall people in any particular chair. See the 92171E footrest at left.

The stand that's great for your printer is just as good for your plotter

Desktop printer/plotter stand. Versatile acrylic stand is perfect for HP's small, dot matrix printers, as well as the HP 7470 Plotter.

Paper fits conveniently inside–providing organization and improved paper flow. Stand can accommodate paper 4 inches (102mm) to 10 inches (254mm) wide.

Exterior dimensions: height 3.37 inches (85mm); width 16.5 inches (419mm); depth 14 inches (355mm). The right size for personal/office workstations.

92171S

(1–2 units) ..... $59.00 ea.
(3+) ..... 53.00 ea.

92171S Desktop printer/plotter stand makes handling fanfold paper a snap!

Save desktop space and store your plotter paper in the most convenient place–right below your HP 7470 Plotter!

Protection with a perfect fit and professional look

Protect equipment from harm. Even the finest computer or printer can suffer a breakdown from environmental contaminants. Our handsome 100 percent cotton covers shield your delicate hardware from dust and dirt.

Prevent static and moisture damage. In addition to offering protection from static, these waterproof covers "breathe" to prevent harmful moisture from being trapped inside.

Professional-looking. Each cover is custom tailored to fit your computer or peripheral perfectly, and easily rolls or folds for compact storage. Durable and strong, HP dust covers are fully guaranteed against defects in workmanship.

For terminals and computers

HP product model no.	Dust cover part no.	Price
HP 83/85	82948A	$15.00
HP 86	92250J	$22.00
HP 125[1]	92250B	$25.00
Touchscreen HP 150 A/B[1]	92250F	$20.00
Touchscreen II HP 150 II[1]	92250K	$29.00
Touchscreen "stacked" (150,9121,92240A/B)[1]	92251P	$35.00
Vectra PC		
Monochrome monitor[1]	92259A	$30.00
Color monitor[1]	92259B	30.00
2382A[1]	92250A	$20.00
2392A[1],2394A[1]	92251E	$25.00
262X[1]	92250B	$25.00
264X[1]	92250C	$25.00
Integral Personal Computer (9807A)	92251F	$59.00
9816[1] (Series 200 Model 16)	92250P	$20.00

[1]Includes covers for keyboard and CRT.

For plotters, printers and disc drives

HP product model no.	Dust cover part no.	Price
2225A/B/C/D, 9114A	92250V	$15.00
2631	92251C	$20.00
LaserJet Series II Printer *New!*	92259G	$30.00
LaserJet printers	92259C	$30.00
7090A	92259D	$25.00
7220C, 7221C, 9872C	9222-0742	$17.00
ColorPro 7440A	07440-60006	$12.00
7470A	92250N	$15.00
7475A	07475-60010	$15.00
7550A	07550-60210	$18.00
82901M	92251A	$15.00
82902M	92251B	$15.00
82905A/B	92250T	$15.00
9121S/D	92251D	$12.00
2227A	92250W	$25.00
2228A	92250X	$20.00

Durable, water-resistant dust cover protects your ColorPro Plotter. See chart above to order.

Protect your computer equipment when you're on the go!

Portability & protection. Our convenient carrying cases are thickly padded with shock-absorbing cellular foam. Not only will they protect equipment from sudden impact, but adjustable, non-slip shoulder straps offer true portability. A sturdy plastic insert fitted to the case bottom and a leather snap around the handle help distribute the weight evenly, making your load seem lighter!

Our HP Vectra PC carrying case even features wheels for maximum transportation ease.

Quality, inside and out. Choose from a variety of custom-made cases constructed of tough cordura nylon; scuff-free, water-resistant vinyl; or authentic Italian leather.

Get your ColorPro Plotter to where you're going safe and sound in our thickly padded carrying case with a tough, nylon interior and scuff-resistant, vinyl exterior. See chart below to order.

For terminals and computers

HP product model no.	Case part no.	Exterior	Price
The PORTABLE (HP 110)*			
Vinyl replacement carrying case	13269K	Vinyl	$ 29.00
Soft leather briefcase	13269Z	Leather	85.00
System	13269V	Cordura	110.00
Attaché	13269W	Leather†	350.00
HP 120[1]	13269P	Vinyl	$125.00
Touchscreen (150) **and 9121S/D**	13269C	Vinyl	$140.00
Touchscreen II (150II)**—2-piece case** (monitor, 9123 & keyboard)	13269BB	Cordura	$190.00
Vectra PC 3-piece case (monochrome or color monitor, SPU & keyboard)	35178A	Cordura	$190.00
HP85/86/87 (86 monitor must be carried separately)	13269A	Vinyl	$ 98.00
HP 83/85 (Contoured foam insert)	82933A		$145.00
2382A	13269P	Vinyl	$125.00
Integral Personal Computer (9807A)	13269Y	Cordura	$110.00
9816[2]	13269P	Vinyl	$125.00

[1]A separate carrying case for the disc drive must be used if the HP 120 features the extended keyboard.

[2]Use 13269C for 9816 with extended keyboard.

*See page 108 for a complete description of all The PORTABLE carrying cases.

†Italian leather

For plotters, printers, and disc drives

HP product model no.	Case part no.	Exterior	Price
7225B, 7240A, 7245B, 7470A	07470-60001	Vinyl	$175.00
ColorPro 7440A	07440-60001		$195.00
7475A	07475-60001	Vinyl	$225.00
9121S/D	13269T	Vinyl	$65.00
2225A/B/C/D/P, 9114A	13269TT	Cordura	$49.00

Custom-fit dark gray cordura nylon case protects your integral from bumps, scrapes, and spills. Padded shoulder strap wraps around bag for reinforced strength, while convenient zippered top provides easy access to computer handle.

Two zippered pouch pockets (8 in. (203.20 mm) H × 8 in. (203.20 mm) W × ¾ in. (19.05 mm) D each) keep mouse, cables, floppy discs, and power cord close at hand. Interior or exterior flaps allow for flat storage of ThinkJet paper. See chart at left for ordering information.

Caution. Cases are not intended for shipment or as checked airline luggage.

Help prevent theft with our easy-to-install security kits

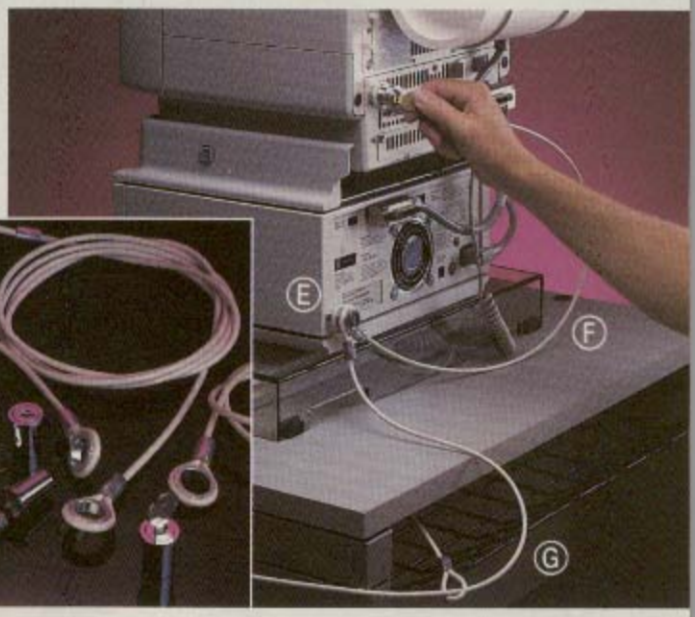
Plate lock security kit. With this new security kit, you won't have holes drilled into your equipment or adhesive mats marring your furniture. No bolts, rods, locking plates or electrical connections. With this kit installed, your equipment can be moved around your desk but not out the door.

Installation is easy. Remove the protective cover on the adhesive-backed plate and mount it on the bottom of your ThinkJet, 9121 disc drive, keyboard, etc. Loop the short security cable around your desk or workstation table leg. Lock all loops and the mounting plate cable together with the padlock. To move your secured equipment, simply unlock the padlock and you're ready to go (one plate per package).

92172G (See photo at left)

(1–2 units)	$29.00 ea.
(3–9)	26.00 ea.
(10+)	23.00 ea.

A. *Laminated steel padlock with set of duplicate keys.* ***B.*** *2-ft. (.6 m) double-looped cable* ***C.*** *3.5-in. (89 mm) × 3.5-in. (89 mm) adhesive-backed aluminum mounting plate with up to 2,000 lbs. of gripping strength* ***D.*** *5-ft. (1.5 m) tamper-resistant, steel security cable.*



Screw lock security kit. This affordable anti-theft system can be affixed to any equipment with an exposed screw in its rear panel area. Includes three screw locks and three cables (two 3-ft. or .91 m, one 6-ft. or 1.82 m) that can secure up to three pieces of equipment.

Installation is a breeze. Remove a screw from the rear panel area. Slip the cable ring onto the screw lock and mount the lock and cable with the previously removed screw. Insert lock tumbler into screw lock and turn the key. One screw lock can accommodate two cable rings so you can daisy chain your equipment together with the shorter cables. Use the longer cable to loop around the leg or cross-member of your workstation or table.

If you can't find a convenient screw on your equipment, use the 92172G security system.

92172H (See photo at right)

(1–2)	$49.00 ea.
(3–9)	46.00 ea.
(10+)	43.00 ea.

E. *Screw lock mounts on rear panel screw* ***F.*** *Short cable attaches equipment together* ***G.*** *Equipment is secured by long cable that loops around workstation to screw lock.*

Foil data thieves, secure confidential files, satisfy internal auditors!

Securing valuable information is a growing concern of internal auditors. Our Data Lock dispels those concerns.

This tiny device piggy-backs on the HP-IB interface of your PC or HP 1000, 3000 or 9000 computer system. Data transmission from disc drive to screen is effectively halted with the turn of a key—until *you* unlock it!

Your application software, test statistics, business data and personal information is secured. What's more, unwanted computer use is prevented, and your HP-IB peripherals have an extra measure of protection. Installation takes minutes, and requires only a small screwdriver (included).

92172F Data Lock ..... $99.00 ea.

You can see the difference!

Today's computer terminals are operating where the work is—often where the lighting is less than perfect. Glare on the screen is annoying and, over time, it can reduce operator productivity.

HP offers you a high-quality solution—an optically-coated glass filter that cuts 94 percent of reflected glare.

Rugged construction HP Anti-glare filters use distortion-free safety glass. And the tough optical coating was selected by NASA for use on the windows of the Space Shuttle.

Low maintenance Taking care of the anti-glare filter is easy—just use ordinary household strength glass cleaner to remove fingerprints.

Easy installation Press-on/pull-off Velcro® strips make it easy to install. Just place the adhesive-backed strips on your terminal and press the filter into place.

Improved contrast User tests show that the anti-reflective optical coating actually enhances screen readability and improves character contrast.*

*Robert J. Beaton and Harry L. Snyder, Department of Industrial Engineering and Operations Research, Virginia Polytechnic Institute and State University: "The Display Quality of Glare Filters for CRT Terminals."

Optically coated filters reduce annoying glare—increase productivity

HP's anti-glare filters put nothing between you and your data except a distortion-free, optically coated safety glass which actually increases contrast. There is no blurring of the image, nothing to obstruct your view.

Each filter is easily mounted in seconds with Velcro® strips. No tooling is required.

These filters will fit other terminals and computers, as well. The Velcro® mounting requires a .75-inch (2 cm) wide, flat surface on at least two sides. The accompanying illustrations will help you select the correct size.

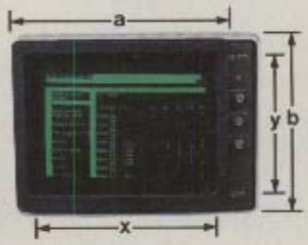
92193Y Video clean kit. Clean your CRT terminal screens and other glass surfaces with two 4-ounce bottles of screen-cleaning solution, fifty 3×5-inch (8×13 cm) lint-free wipes and one easy-pour dispensing cap.

(1 kit)	$17.00 ea.
(2–4)	16.00 ea.
(5+)	15.00 ea.

92207A *Anti-glare filter. For use with 262X-series terminals and the HP 125 Personal Computer.*

92207A

a.	12.71 in.	32.28cm
b.	10.45 in.	26.49cm
c.	12.93 in.	32.84cm
d.	10.82 in.	27.48cm
x.	11.66 in.	29.61cm
y.	8.70 in.	22.09cm



92207C *Anti-glare filter. For use with the HP 86 Personal Computer.*

92207C

a.	12.00 in.	30.48cm
b.	9.50 in.	24.13cm
x.	10.53 in.	26.74cm
y.	7.83 in.	19.88cm

92207A/C Anti-glare filters

(1–2 units)	$110.00 ea.
(3–6)	99.00 ea.
(7+)	95.00 ea.

We ship within 24 hours

CALL HP DIRECT
800-538-8787

Call us with your Purchase Orders or

VISA MasterCard AMERICAN EXPRESS 3712 345678 95006

It's easy to order: 800-538-8787

Static control–a key part of the computing environment

Sensitive components used in electronic equipment can be damaged by electrical discharges of just a few volts. Although the discharge path provided by proper grounding of electrical equipment provides significant protection, it is not a complete solution.

Static electricity is generated when two different materials come into contact and then are separated. Common actions, such as walking (shoes leaving floor), sitting (clothes rubbing against upholstery), and standing (clothes rubbing against the body), cause static energy buildup. The simple motions of a person working at a desk can develop a charge of 500 volts or more.

Consequently, controlling static is a must for getting the most out of your electronic equipment. Hewlett-Packard offers a complete line of anti-static products to help you do just that:

Tabletop mat–Just touch it before touching your electronic equipment.

Floor mats

- Hard-surface for use under chairs.
- Soft-surface for comfort at stand-up work stations.
- Carpet for comfort and appearance.

Shoe straps–A grounding path that moves with you.

Staticide™ Spray and Wipes–For surfaces not protected by grounding devices.

HELPFUL IDEAS!

Static facts

Static damage is described in two ways:

- Catastrophic–when the component is dead; the board/unit will not work.
- Degrading–when a discharge weakens a component, possibly causing premature failures within days, weeks or months after the incident, or characteristic changes such as intermittent failures (usually with temperature shifts, vibrations, or load variations).

	Most common static reading	Highest static reading
Walking across carpet	12,000 volts	39,000 volts
Walking across vinyl tile floor	4,000 volts	13,000 volts
Working at desk	500 volts	3,000 volts

*Institute of Electrical and Electronics Engineers Inc. (IEEE) from 12th Annual Proceedings of IEEE Reliability Physics.

The static charge level is:	When you:
3,500 volts	feel
15,000 volts	see

Use Staticide Spray and Wipes on areas not protected by anti-static carpets and mats.

Staticide™ Spray and Wipes complete the protection your equipment deserves.

Non-toxic, non-flammable, biodegradable Staticide™ from ACL is the only EPA-registered anti-static solution and is now available in convenient spray bottles and handy wipes.

Use the spray on large areas, such as walls and floors, and the wipes on CRTs and keyboards. Since static attracts dust, you will be delighted with the wipes' cleaning ability, as well.

92176S Spray 1-quart (0.95 l) bottle with spray trigger
(1–11) ..... $10.95 ea.
(12+) ..... 9.95 ea.

92176W wipes 24 individually packaged wipes per box
(1–11) ..... $6.50 ea.
(12+) ..... 6.00 ea.

HELPFUL IDEAS!

Controlling static facilitates LaserJet paper flow

If you live in a dry climate, static buildup may be causing your LaserJet pages to stick to your forward collator or to one another. This in turn may cause your printer to jam. Although the problem is serious, the solution is very simple. Just spray or wipe the forward collator with our easy-to-use anti-static spray and wipes. See above.

"I am looking forward to hearing many more of your smiles over the phone line."

I want to let you know how very well your Direct Marketing group is performing. Each time I call the (800) order line, I am greeted by someone who seems to enjoy working for HP, and continuing HP's tradition of excellence.

Being able to order all the supplies I need over a toll-free line is an invaluable aid to my business, and saves me much time and frustration. I have never reached a busy line, and a well-informed telemarketing sales person has always been able to answer my questions on the spot.

I just want to say thanks.

Very truly yours,

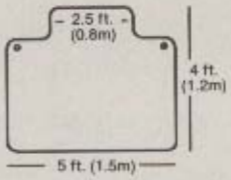
Paul Karkeck
Owner, Wilderness Trading Posts
Sequim, Washington

(grounding wire included)

Static control mats*

1 ***92175A Black hard-surface mat***
- For sit-down applications–castered chairs will roll easily on mat
- Shaped to fit most desks/workstations
- 10-foot (3.05m) ground wire

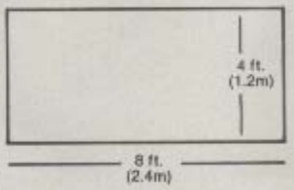
NOTE: Shipped by truck.



(1–2 mats) ..... $195.00 ea.
(3+) ..... 175.00 ea.

2 ***92175B Chocolate brown soft-surface mat***
- For stand-up application
- Cut-to-fit space requirements
- 10-foot (3.05 m) ground wire
- Foam backing has both anti-skid and anti-fatigue characteristics

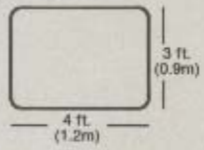
NOTE: Shipped by truck.



(1–2 mats) ..... $285.00 ea.
(3+) ..... 255.00 ea.

3 ***92175C Small black hard-surface mat***
- For sit-down applications–castered chairs will roll easily on mat
- Ideal for terminal and processing data entry
- 10-foot (3.05m) ground wire

NOTE: Shipped by truck.



(1–2 mats) ..... $100.00 ea.
(3+) ..... 91.00 ea.

Tabletop anti-static mat*

4 ***Now an alternative to floor mats is here! 92175T Tabletop mat*** When anti-static carpets and floor mats are impractical or aesthetically unappealing, tabletop mats are the answer to static protection. Simply touch the mat before using your equipment and any charge you have generated will drain via the 10-foot ground wire.

For peripheral equipment positioned off the mat, the procedure is the same. Just touch the mat before handling the equipment and static charge is dissipated.

Our desktop mats are cushioned, skid-resistant and easily cleaned with detergent and warm water. For a custom fit, they can be cut to size with heavy scissors.

Size: 23 × 30 inches (58 × 76 cm)
(1–2) ..... $59.00 ea.
(3+) ..... 53.00 ea.

Anti-static carpets*

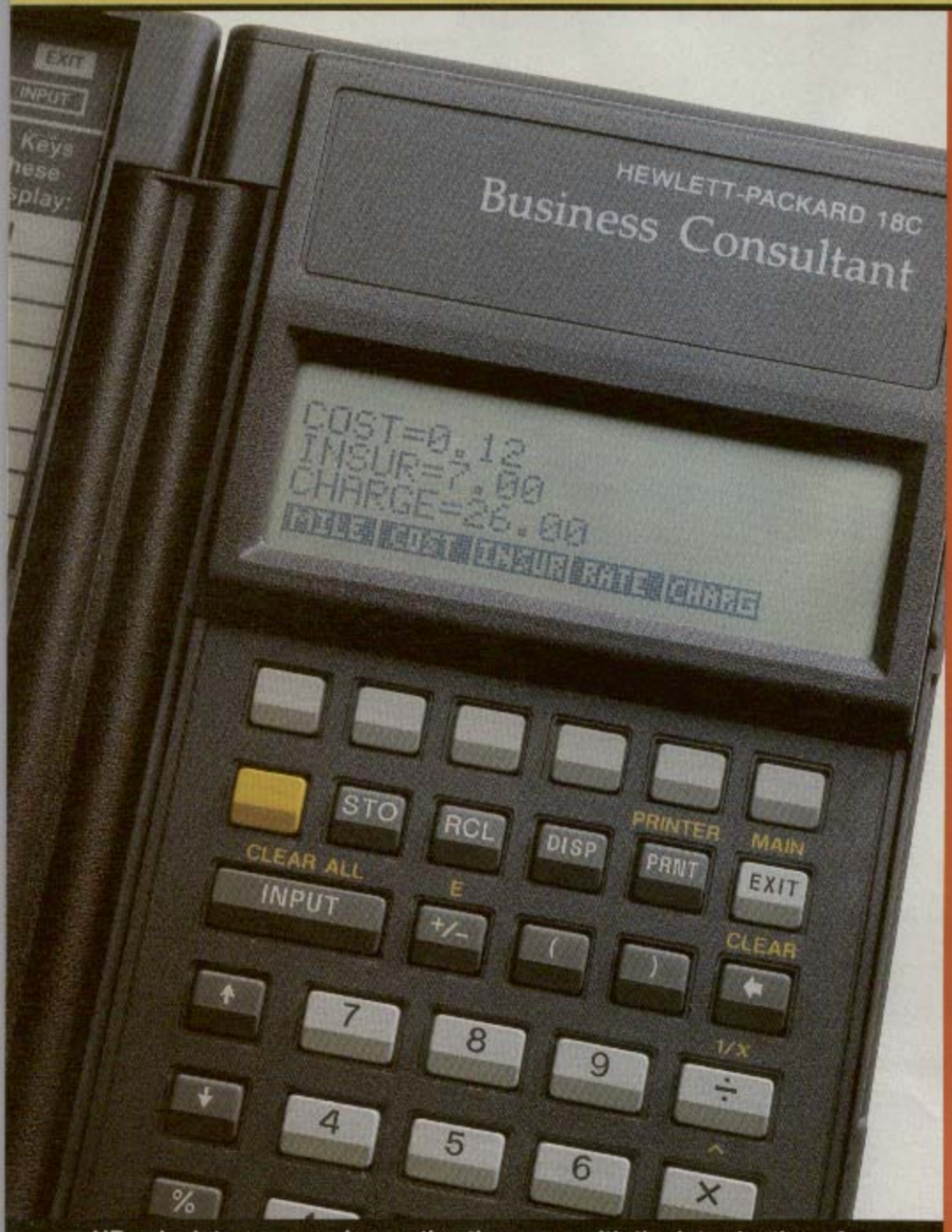
5 Carbon-impregnated filaments woven into the carpet automatically drain off static. This protection remains even after washing. Our exclusive non-skid backing prevents the mat from shifting or curling. And to complement all types of workstation furniture, our nubby-weave mats are offered in two warm hues. Grounding wire included.

Size: 4 × 6 foot (1.2 × 1.8m)
92176A Natural color
92176C Russet color
(1–2 mats) ..... $106.00 ea.
(3+) ..... 98.00 ea.

Size: 4 × 8 foot (1.2 × 2.4m) shown in photo above
92176B Natural color
92176D Russet color
(1–2 mats) ..... $138.00 ea.
(3+) ..... 129.00 ea.

***Recommended for HP computer installations by HP's Customer Engineers.**

CALCULATORS, PC SUPPLIES & TERMINALS



HP calculators...more innovative than ever with the introduction of the HP Business Consultant. Now, formulas can be expressed in numbers and letters. And at the touch of a softkey, you can call up your own customized business formulas and print out the results. To learn more, turn the page or see your HP dealer.

Professional calculators 101

Infrared printer 101

Advanced programmable calculators 102

Handheld computers 103

Calculator accessories ... 104

HP Vectra PC accessories 105

Touchscreen PC (HP 150) accessories 106

PORTABLE/Portable PLUS (HP 110) accessories 107

Series 80 computer accessories 109

Application software 111

Computer terminals 116

Books 118

Numeric co-processor. This Intel 80287 numeric co-processor increases the speed of arithmetic functions, and provides faster response and greater throughput for graphics applications.* Just plug it into your Vectra's special processor board socket.

45987A 80287 Numeric co-processor ..... $375.00 ea.

Memory expansion kit. Boost the memory of your Vectra PC Model 25 or 35 to 384K, 512K or 640K bytes, in convenient 128K byte increments. This kit's RAM chips plug into your PC's processor board sockets without using an accessory slot.

45971A 128K byte Memory expansion kit .. $75.00 ea.

Memory expansion cards. Expand your Vectra PC's memory from 640K bytes to 3.64M bytes by installing a combination of a 0.5M byte and 1M byte memory expansion card. The Vectra PC's Virtual Disc utility allows memory to be used as an "electronic disc" for storing large data files and accessing programs and data quickly. NOTE: These cards do not meet the Lotus™ Intel®/Microsoft® expanded memory specification. MS-DOS 3.1 can directly address a maximum of 640K byte memory. Additional memory may be configured as a high-speed RAM disc.

45973A 0.5M byte memory expansion card ..... $595.00 ea.

45974A 1M byte memory expansion card ..... $995.00 ea.

Enhancements for your HP Vectra Personal Computer

Disc/tape interface. Increase the external storage capacity of your Vectra PC, IBM® PC, PC/AT or PC/XT, or Compaq Portable.™ This low-cost disc/tape interface lets you daisy-chain as many as seven stand-alone disc drives and one tape backup system to a PC. It also allows you to access files without complicated DOS commands. Use it with HP's 9134H 20M byte stand-alone hard disc drive, 9134L 40M byte stand-alone hard disc drive, 9142A low-cost tape backup system and 9122D/S 710K byte stand alone micro disc drive (the latter is for the Vectra PC only). Includes interface card, cable, manual and software utilities.

88500A Disc/tape interface .. $199.00 ea.

Serial/parallel interface offers an industry standard serial (RS-232) port and parallel printer port that works with PC-DOS™ based software. It has a nine-pin male serial port for full-duplex asynchronous communication and remote access to dial-up information services via modem, plus a 25-pin female parallel port for connection to Centronics-type printers.

24540A Serial/parallel interface ..... $150.00 ea.

*Check with your local HP dealer or software manufacturer for software written to take advantage of the numeric 80287 Co-processor.

Dual RS-232 interface has a nine-pin male industry-standard (RS-232) serial port for asynchronous communications, plus a 25-pin female RS-232/HP422 port for full-duplex asynchronous communication up to 19.2K baud, and connection to HP 3000 computers as far away as 1200 meters. (Note: HP422 is HP's implementation of RS-422.)

24541A Dual RS-232/422 interface ..... $220.00 ea.

HP Graphics tablet. Use this high-performance, low-cost input device for menu selection, graphics placement, drawing and tracing. It works with HP Drawing Gallery, Microsoft® Windows for the HP Vectra PC and AutoCAD 2.52. You get a highly accurate 1200+ line-per-inch resolution that captures the most minute detail. Includes tablet, stylus with attached wand, two overlays and HP-HIL cable.

45911A HP Graphics tablet .. $499.00 ea.

HP-HIL extension module. Position your CPU up three meters from your keyboard, and free up your desktop.

46080A HP-HIL extension module ..... $85.00 ea.

HP Mouse. This easy-to-install, Microsoft compatible device is great for applications that require precise cursor positioning. It has two buttons, tactile feedback and 200 pixel-per-inch resolution. Works with: Executive Card Manager, Executive Card Manager: Templates, Executive Spreadsheet, Drawing Gallery, Charting Gallery and The Gallery Collection.

46060A HP Mouse ..... $148.00 ea.

HP Touch facilitates one of the most natural means of communicating with a computer—pointing! Works with: Executive Memomaker, Executive Card Manager, Executive Card Manager: Templates and Executive spreadsheet. Requires the 46020-60001 or 92241A HP-HIL cable.

35723A HP Touch ..... $400.00 ea.

46020-60001 (92241A) HP-HIL cable ..... 19.50 ea.

Security lock. Prevent unauthorized access to your Vectra PC with this key-lock security switch. Install it on the pop-out front panel of your PC, and you can protect your accessory cards, or guard accessory cards *and* files stored on hard disc. Just switch it off to access to data and internal workings.

45986A Security lock ..... $50.00 ea.

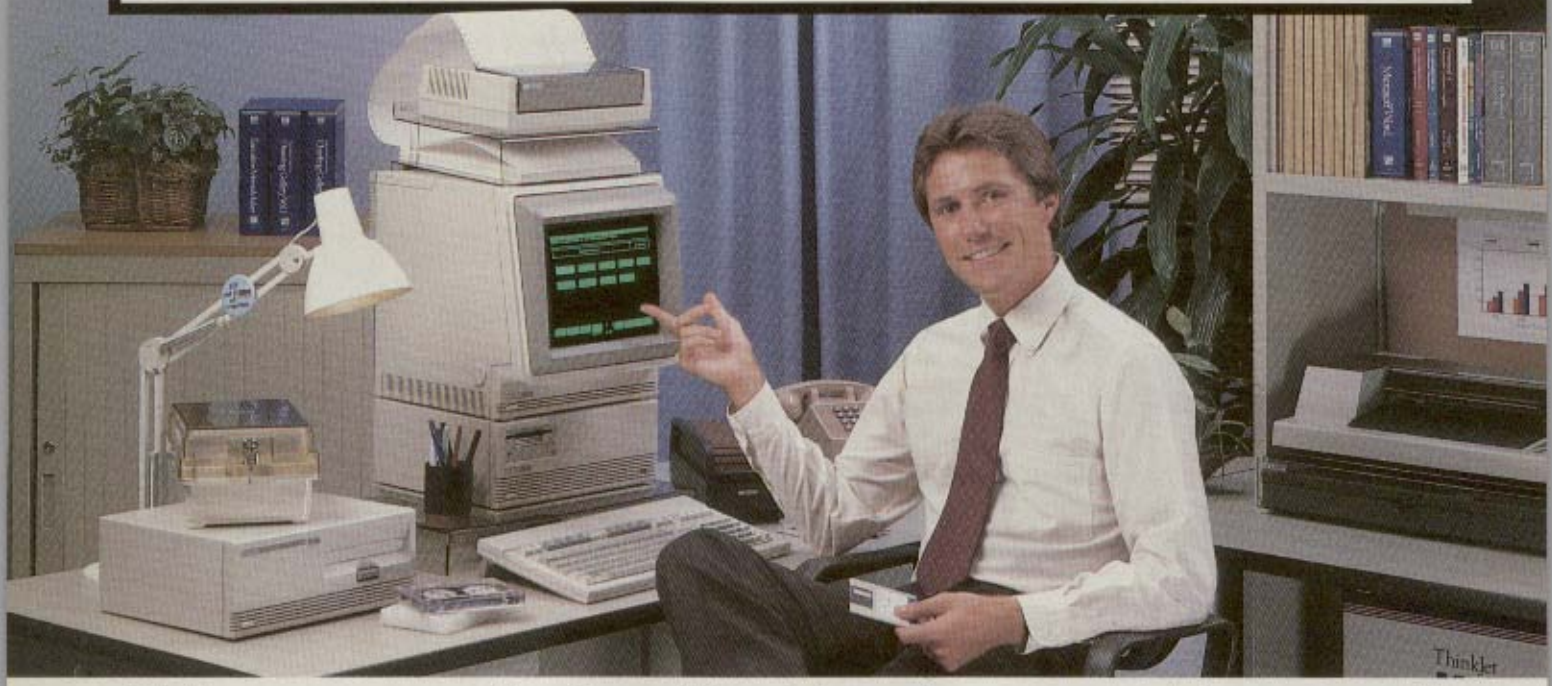
It's easy to order: 800-538-8787

384K byte RAM board. It's easy to increase the memory of your Touchscreen (HP 150 A/B) or Touchscreen II (HP 150 II). Just install this 384K byte RAM board in one of its expansion slots, and you can utilize powerful business applications and graphics with speed and ease.

45632A 384K byte RAM board ..... $365.00 ea.

HP-HIL/384K byte RAM board. This board lets you increase the memory of your Touchscreen (HP 150 A/B) to 640K bytes, and add HP-HIL interface devices besides. It's all-new convenience for your Touchscreen! (NOTE: the Touchscreen II (HP 150 II) has a built-in HP-HIL interface and does not require this board.)

45915A HP-HIL/384K byte RAM board ..... $440.00 ea.



Enhancements for the Touchscreen Personal Computer (HP 150)

IBM 3278 Emulation accessory. Now your Touchscreen or Touchscreen II (HP 150 A/B or HP 150 II) can tap into data bases on your IBM system as if it were an IBM terminal. Enjoy easy access to departmental files—augment your PC applications with those on your company mainframe. Your IBM connection is maintained even while you use your Touchscreen as a PC. Just touch the screen to switch applications.

45641B IBM 3278 Emulation accessory ..... $1200.00 ea.

Extended I/O Accessory card. Your Touchscreen or Touchscreen II (HP 150 A/B or HP 150 II) can talk and share data files with The PORTABLE and Portable PLUS. With the Extended I/O Accessory card, you can download data compiled on HP portable computers in the field to Touchscreen PCs in the office...or vice versa. You can even send information from a Portable to the printer or disc drive of a Touchscreen. Save time, save energy, get more done! Includes HP-IL and Centronics interfaces, software and manuals. Requires 82167A or 82167B cable.

45643A Extended I/O Accessory card ..... $175.00 ea.

82167A 0.5m HP-IL cable ..... $ 6.00 ea.

82167B 1m HP-IL cable ..... 8.00 ea.

HP-IL Interface card lets Touchscreen PCs talk and share information with the Portable PLUS, for convenience and productivity. Includes software and manuals.

82973A HP-IL Interface card ..... $150.00 ea.

HP Graphics tablet. Use this high-performance, low-cost input device for menu selection, graphics placement, drawing and tracing. It works with HP Painter, HP Drawing Gallery and Microsoft® Windows for the HP Touchscreen PC. You get a highly accurate 1200+ line-per-inch resolution that captures the most minute detail. Includes tablet, stylus with attached wand, two overlays and HP-HIL cable.

45911A HP Graphics tablet ..... $499.00 ea.

Bar code reader. This keyboard alternative is perfect for order entry applications such as material flow, item tracking and warehousing, on your Touchscreen or Touchscreen II (HP 150 A/B or HP 150 II). The keyboard remains active while you're using the bar code reader, so you can mix bar code and keyboard entries in the same applications.

92915A Bar code reader for the Touchscreen (HP 150 A/B) ..... $590.00 ea.

92916A Bar code reader for the Touchscreen II (HP 150 II) ..... $590.00 ea.

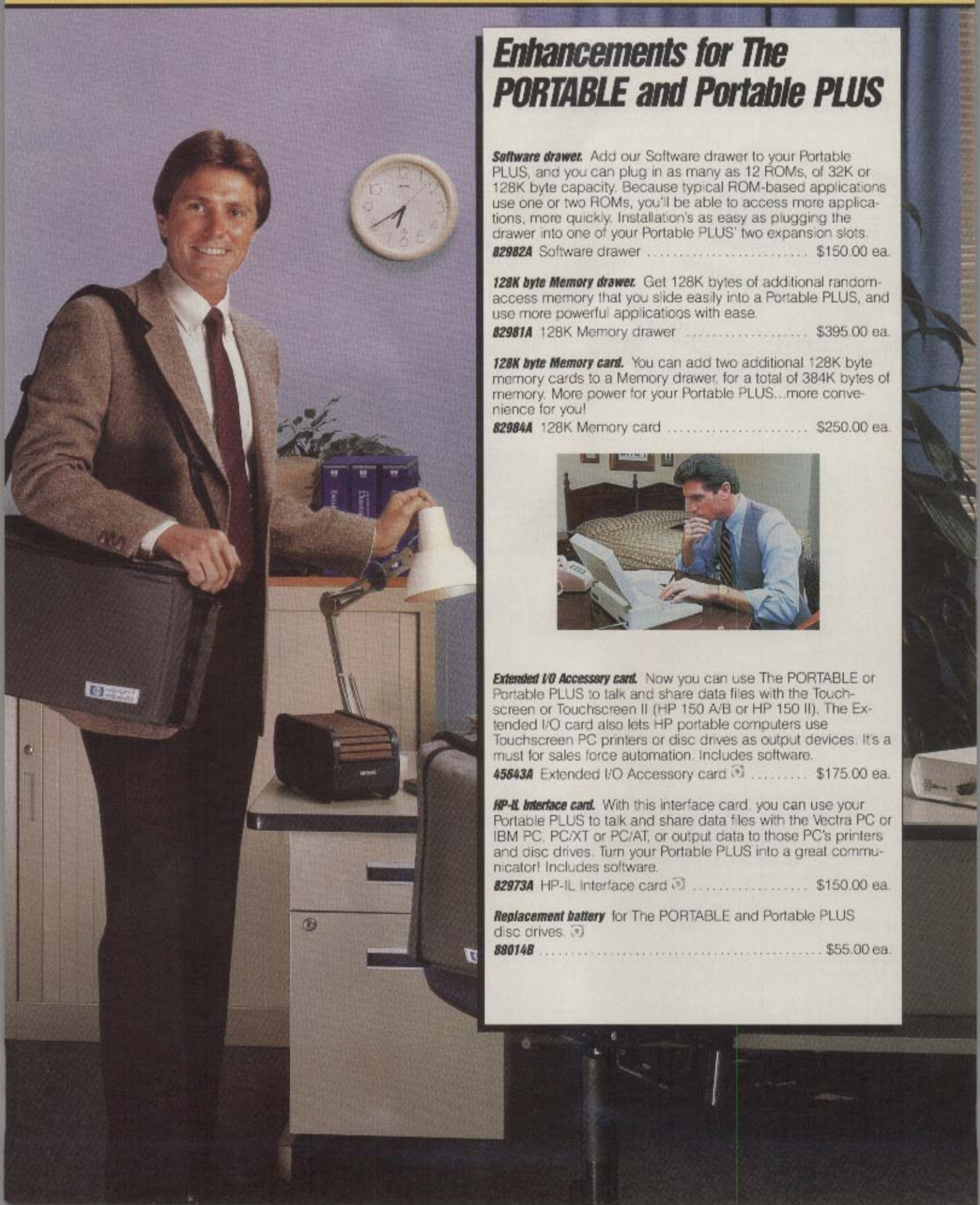
HP Touch Accessory. This popular, easy-to-install accessory for the Touchscreen II lets you control applications written for HP Touch, with the touch of a finger.

35723A HP Touch accessory ..... $400.00 ea.

HP Mouse makes moving around mouse-supported applications a breeze. It features two buttons, tactile feedback and 200 pixel-per-inch resolution. You'll find it an excellent tool for graphics applications. Touchscreen (HP 150 A/B) PCs require an HP-HIL accessory card.

46060A HP Mouse ..... $148.00 ea.

45914A HP-HIL accessory card ..... 155.00 ea.



Enhancements for The PORTABLE and Portable PLUS

Software drawer. Add our Software drawer to your Portable PLUS, and you can plug in as many as 12 ROMs, of 32K or 128K byte capacity. Because typical ROM-based applications use one or two ROMs, you'll be able to access more applications, more quickly. Installation's as easy as plugging the drawer into one of your Portable PLUS' two expansion slots.

82982A Software drawer ..... $150.00 ea.

128K byte Memory drawer. Get 128K bytes of additional random-access memory that you slide easily into a Portable PLUS, and use more powerful applications with ease.

82981A 128K Memory drawer ..... $395.00 ea.

128K byte Memory card. You can add two additional 128K byte memory cards to a Memory drawer, for a total of 384K bytes of memory. More power for your Portable PLUS...more convenience for you!

82984A 128K Memory card ..... $250.00 ea.

Extended I/O Accessory card. Now you can use The PORTABLE or Portable PLUS to talk and share data files with the Touchscreen or Touchscreen II (HP 150 A/B or HP 150 II). The Extended I/O card also lets HP portable computers use Touchscreen PC printers or disc drives as output devices. It's a must for sales force automation. Includes software.

45643A Extended I/O Accessory card ..... $175.00 ea.

HP-IL Interface card. With this interface card, you can use your Portable PLUS to talk and share data files with the Vectra PC or IBM PC, PC/XT or PC/AT, or output data to those PC's printers and disc drives. Turn your Portable PLUS into a great communicator! Includes software.

82973A HP-IL Interface card ..... $150.00 ea.

Replacement battery for The PORTABLE and Portable PLUS disc drives.

88014B ..... $55.00 ea.

Durable, convenient and versatile carrying cases—when you're on the go!

The PORTABLE/Portable PLUS Plush leather briefcase

Ideal for the traveling executive, this brown leather briefcase features a soft glove finish. In addition to inside space for your PORTABLE or Portable PLUS, the briefcase has three large pockets for as many as six file folders and two small pockets for your calculator, pens and pencils. It also features two carrying handles and a removable shoulder strap. Dimensions are 3.50 in. (88.90 mm) W × 17.25 in. (438.15 mm) L × 10.25 in. (260.35 mm) D.

13269Z Plush leather briefcase ..... $85.00 ea.

The ATTACHÉ

Start with a stylish Italian-leather attaché case. Add a special compartment for The PORTABLE or The Portable PLUS and some essentials—discs, manual and business documents.

There's a rigid writing surface you can swing up or remove; your PORTABLE/Portable PLUS is secure with Velcro strips and a rear brace. The elegance and functionality of this briefcase is complete with a silk-lined calfskin file folder, four-pen file belt and gusseted storage pouches—even one to fit your HP-12C! Measures 5.25 in. (133.35 mm) W × 17.25 in. (438.15 mm) L × 12.75 in. (323.85 mm) D.

13269W ATTACHÉ ..... $350.00 ea.

The System SLIMLINE

When you travel and need the power of a desktop, our System SLIMLINE is the way to go. Slip in your PORTABLE or Portable PLUS, micro drive and ThinkJet Printer, plenty of discs, a rechargeable battery or two, and some printer paper—you've got an easily managed portable system. Made of 1000 denier cordura nylon, this bag has a tensil strength much tougher than ordinary nylon. Light padding separates each component and protects your valuable equipment against the scrapes and bangs of normal travel. Custom styled at only 7¼ in. wide, 18 in. long, and 12 in. high (184.15 mm × 457.20 mm × 304.80 mm), the SLIMLINE easily fits under an airline seat.

13269V System SLIMLINE ..... $110.00 ea.

Choose the right battery for your HP system

Whatever your application, you need the right battery to keep your system up and running. Here's a chart to help you select the battery for your HP equipment. HP calculator batteries are readily available in several brands through your local dealer, photo store or drug store. For batteries that are not customer-installable, please consult your local dealer. Note: Silver oxide batteries should last twice as long as Alkaline batteries. A set of three fresh silver oxide batteries will provide 180 hours of continuous program running, as opposed to 80 hours provided by three fresh Alkaline batteries.

HP Equipment	Battery	Availability
HP Vectra PC	45935-60008	Notcustomerinstallable
Touchscreen II (HP 150 II)	1420-0338	Notcustomerinstallable
Touchscreen (HP 150A/B)	N cell	Drug store
The PORTABLE	1420-0329	Notcustomerinstallable
The Portable PLUS	1420-0346	Notcustomerinstallable
HP 120	1420-0255	Notcustomerinstallable
HP 125	45701-63003	Notcustomerinstallable
HP 2225B	82199A	
9114A/B Disc Drive	88014B	
262X/2675A	1420-0259	
HP35/45/55/67, Series 70	82001B	
HP71	AAA	Drug store
82161A, 82162A, 82168A, 97A	82033A or 82037A	
HP41C/CV/CX	N cell	Drug store
HP31E/32E/33E/33C/34C/37C/38C	82109A	
HP21A/22A/25A/27A/29C	82019B	
HP10A/19C	82052A	

HP Equipment	Battery	Availability
HP 10C, 11C, 12C, 15C and 16C calculators HP 01 Wristwatch	**Alkaline** VCAR A76 Eveready A76 RAY-O-VAC RW82 National or Panasonic LR44	Drug store
	OR	
	Silver Oxide VCAR 357 Eveready 357 RAY-O-VAC RS76 or RW42 Duracell MS 76	Drug store
HP 18C and HP 28C calculators	N cell	Drug Store

Software for the HP Vectra PC and IBM PC™/IBM XT™/AT™

Software			Product no.	Price
Business Planning and Analysis				
Executive Spreadsheet	*Touch*	*Mouse*	**68332F**	$250.00 ea.
1-2-3® by Lotus®			**68340F**	495.00 ea.
Symphony® by Lotus††			**68339F**	695.00 ea.
Data Base Management				
Executive Card Manager	*Touch*	*Mouse*	**68331F**	295.00 ea.
Executive Card Manager/Templates	*Touch*	*Mouse*	**68335F**	125.00 ea.
R: Base 5000™ †††			**68336F**	495.00 ea.
R:Base System V			**68328F**	700.00 ea.
Data Communications				
AdvanceLink 2392			**68333F**	325.00 ea.
Graphics				
Charting Gallery			**68350F**	295.00 ea.
Drawing Gallery			**68351F**	395.00 ea.
Gallery Collection			**68352F**	695.00 ea.
Text Charts			**45406E**	200.00 ea.
HP Draw Figures Portfolio			**68327F**	175.00 ea.
Chemical/Petrochemical Portfolio	*Touch*	*Mouse*	**68325F**	150.00 ea.

†Requires 320K of memory

††Requires 384K of memory, a hard disc system is recommended.

†††Requires 512K of memory, a hard disc system is recommended.

Software		Product no.	Price
Programming			
Vectra Assembler		**45953A**	100.00 ea.
Word Processing			
Advancewrite I**		**27506F**	295.00 ea.
Advancewrite II**		**27507F**	550.00 ea.
Advancewrite III**		**27508F**	695.00 ea.
Executive MemoMaker	*Touch*	**68330F**	245.00 ea.
WordStar®		**68345F**	350.00 ea.
WordStar® Professional		**68346F**	495.00 ea.
WordStar® 2000		**68341F**	495.00 ea.
WordStar® 2000 Plus†		**68342F**	595.00 ea.
Utility			
Laser Control		**35190J**	150.00 ea.

**Does not run on the IBM PC/XT/AT

How to upgrade or replace your HP software media

North American customers: If your software disc is damaged or discontinued or you wish to upgrade your software program to the latest revision, send in your original disc with a check or credit card number to:

Hewlett-Packard
Mail Order Dept.
P.O. Box 60008
Sunnyvale, CA 94088

Or send in a software update order form which can be obtained from the *HP PC Communicator* magazine, or call:
800-538-8787

Customers outside North America: Customers who have either damaged their software media or who wish to upgrade their software to the latest revision should take their original media to their local HP sales office. The sales office will in turn order the replacements or upgrades.

Canadian customers: Please send in your original disc with preferred method of payment to:

HP Canada Limited
3710 Nashua Dr. Units A-E
Mississauga, Ontario
Canada
L4V IM5

We ship within 24 hours

CALL HP DIRECT
800-538-8787

Call us with your Purchase Orders or

It's easy to order: 800-538-8787

HP Series 200: Models 216, 220, 226 & 236 Personal Technical Computers*

	Software package name	Product number***	HP 216/220 3.5-in. disc	HP 216/220 5.25-in. disc	HP 226/236 5.25-in. disc	Required for operation**	Price
Business planning & analysis	Context MBA™†	**45481B**	Opt. 630	Opt. 650	Opt. 655†	512K**	$795.00 ea.
	Forecasting	**98818A**	Opt. 630	Opt. 650	Opt. 655	180K, B2.0	500.00 ea.
	Project Management	**98817A**	Opt. 630	Opt. 650	Opt. 655	130K, B4.0	500.00 ea.
Graphics	Data Grapher/200†	**45480B**	Opt. 630†	Opt. 650†	Opt. 655	512K**	$375.00 ea.
	Diagraph™††	**45463B**	Opt. 630	n/a	Opt. 655	512K**	695.00 ea.
	Graphics Editor/200	**45537B**	Opt. 630	Opt. 650	Opt. 555	512K**, **D,E**	525.00 ea.
	Graphics Presentations	**98815A**	Opt. 630	Opt. 650	Opt. 655	230K, B4.0 plotter	750.00 ea.
	Picture Perfect™††	**45462B**	Opt. 630	n/a	Opt. 655	512K**	595.00 ea.
Statistics/mathematics	Numerical Analysis Library	**98821A**	Opt. 630	Opt. 650	Opt. 655	260K, B4.0	$500.00 ea.
	Statistics Library, Complete	**98820A**	Opt. 630	Opt. 650	Opt. 655	260K, B4.0	1500.00 ea.
	Statistics Library, Part I	**98820B**	Opt. 630	Opt. 650	Opt. 655	260K, B4.0	925.00 ea.
	Statistics Library, Part II	**98820C**	Opt. 630	Opt. 650	Opt. 655	260K, B4.0	750.00 ea.
Word processing	HP TechWriter	**98819A**	Opt. 044	Opt. 043	Opt. 042	512K**, **A**	$795.00 ea.
	Text Editor/200	**45538B**	Opt. 630	Opt. 650	Opt. 655	270K, B4.0	325.00 ea.

* Originally Models 9816, 9920, 9826 & 9836. Also referred to in this catalog as HP 216, HP 220, HP 226, and HP 236.

** Memory requirements are stated in terms of additional read/write memory needed except for those items with a double asterisk (**). All packages require either BASIC version 2.0 (B2.0) or 4.0 (B4.0) except Context MBA™, HP TechWriter, Picture Perfect, and Diagraph. The versions of BASIC are *not* interchangeable.

*** For all products **except** HP TechWriter, you must order one of the following options to specify the HP Series 200 computer model and disc size:
Opt. 630 Model 216 or Model 220 3.5-in. flexible disc.
Opt. 650 Model 216 or Model 220 5.25-in. flexible disc.
Opt. 655 Model 226 or Model 236 5.25-in. flexible disc.
For **HP TechWriter** order one of the following options:
Opt. 044 Model 216 or Model 220 3.5-in. flexible disc.
Opt. 043 Model 216 or Model 220 5.25-in. flexible disc.
Opt. 042 Model 226 or Model 236 5.25-in. flexible disc.

† Context MBA, Data Grapher and Diagraph are not available for model 226

†† Picture Perfect and Diagraph are not available for model 226. To run on model 220, you must have a video interface (98204B).

A Requires IO PROM

D Supports color on model 236

E 768Kb required for model 236 C

HP Series 200: Models 217 and 237 Personal Technical Computers

	Software package name	Product number*	HP 217/237 3.5-in. disc	HP 217/237 5.25-in. disc	Required for operation**	Price
Business planning & analysis	Context MBA™	**45481B**	Opt. 630	Opt. 650	512K**	$795.00 ea.
	Project Management	**98817A**	Opt. 630	Opt. 650	130K,B3.0	500.00 ea.
Graphics	Data Grapher***	**45480B**	Opt. 630	Opt. 650	512K**	$295.00 ea.
	Diagraph™/200***	**45463B**	Opt. 630	n/a	512K	695.00 ea.
	Graphics Editor/200	**45537B**	Opt. 630	Opt. 650	512K**, **B**	445.00 ea.
	Graphics Presentations	**98815A**	Opt. 630	Opt. 650	230K,B3.0 plotter	750.00 ea.
	Picture Perfect™***	**45462B**	Opt. 630	n/a	512K**	595.00 ea.
Statistics/mathematics	Numerical Analysis Library	**98821A**	Opt. 630	Opt. 650	100K,B3.0	$500.00 ea.
	Statistics Library, Complete	**98820A**	Opt. 630	Opt. 650	260K,B3.0	1500.00 ea.
	Statistics Library, Part I	**98820B**	Opt. 630	Opt. 650	260K,B3.0	925.00 ea.
	Statistics Library, Part II	**98820C**	Opt. 630	Opt. 650	260K,B3.0	750.00 ea.
Word processing	HP TechWriter	**98819A**	Opt. 044	Opt. 043	512K**, **A**	$795.00 ea.
	Text Editor/200	**45538B**	Opt. 630	Opt. 650	512K**, B3.0 **C**	275.00 ea.

* Except for HP TechWriter, one of the following options must be ordered with the product number:
Opt. 630 Model 217 or Model 237 3.5-in flexible disc.
Opt. 650 Model 217 or 237 5.25-in flexible disc.
For HP TechWriter order either of the following options:
Opt. 044 Model 217 or Model 237 3.5-in flexible disc.
Opt. 043 Model 217 or Model 237 5.25-in flexible disc.

** Memory requirements are stated in terms of additional read/write memory needed except for those items with a double asterisk (**)

*** Data Grapher, Picture Perfect and Diagraph are not available for model 237.

A Requires ID PROM

B Model 237 customers may require additional memory for complex drawings.

C Basic 3.0 customers may desire more memory when creating large documents.

HP Series 200 HP-UX: Models 217, 220, 236 and The Integral PC

	Software package name	Product number*	3.5-in. disc	.25-in. Linus tape†	Required for operation	Price
Business planning & analysis	MicroTrak™ (SU)/HP-UX	**45524G**	standard	Opt. 022	**A**	$775.00 ea.
	MicroTrak™ (MU)/HP-UX	**45524H**	standard	Opt. 022	**B**	1550.00 ea.
	Multiplan® (SU)/HP-UX	**45473G**	standard	Opt. 022	**A**	345.00 ea.
	Multiplan® (MU)/HP-UX	**45473H**	standard	Opt. 022	**B**	595.00 ea.
Data communications	DataComm**	**82815J****	standard	n/a	**	$195.00 ea.
Programming	HP-UX BASIC**	**82860J****	standard	n/a	**	295.00 ea.
	HP-UX C Compiler**	**82857J****	standard	n/a	**	295.00 ea.
	HP-UX Development System**	**82856J****	standard	n/a	**	495.00 ea.
Statistics/mathematics	TK!Solver® (SU)/HP-UX	**45515G**	standard	Opt. 022	**A**	$499.00 ea.
	TK!Solver® (MU)/HP-UX	**45515H**	standard	Opt. 022	**B**	999.00 ea.
	TK!Solver® Packs/HP-UX:					
	Building Design & Construction***	**45518G**	standard	Opt. 022	**C**	125.00 ea.
	Financial Management***	**45516G**	standard	Opt. 022	**C**	125.00 ea.
	Introductory Science***	**45519G**	standard	Opt. 022	**C**	125.00 ea.
	Mechanical Engineering***	**45517G**	standard	Opt. 022	**C**	125.00 ea.
Word processing	MemoMaker (SU)	**45420G**	standard	Opt. 022	**A**	$195.00 ea.
	MemoMaker (MU)	**45420H**	standard	Opt. 022	**B**	395.00 ea.

† **Add $125.00 per application to listed price when ordering option 022 for Linus tape.**

* SU designates single-user version

** Available only for The Integral Personal Computer

*** TK!Solver Pack templates require the TK!Solver program for operation

A Single-User Version. Requires HP-UX version 2.1or 2.2

B Multi-User Version. Requires HP-UX version 2.1 For models 220 and 236 only.

C Will operate with either single-user or multi-user version of TK!Solver

HP 9000 Series 200, 300, 500 and Integral PC HP-UX Software

Software	Software package name Models: 217, 220, 236, 310, 320, 520, 530, 540, 550, and 560	Product number	Integral PC & Series 200 HP-UX 2.1 or 5.0	Series 200 or 300 HP-UX 5.1	Series 500 HP-UX 5.0	Required for Operation	Price
Graphics	Diagraph™/HP-UX	**45463J**	•			750K, HP-UX 5.0	$ 695.00 ea.
	Diagraph™/HP-UX	**45463V**		•		750K, HP-UX 5.0	695.00 ea.
	Picture Perfect™/HP-UX	**45462J**	•			HP-UX 5.0	595.00 ea.
	Picture Perfect™/HP-UX	**45462V**		•		HP-UX 5.0	595.00 ea.
Integrated Office Automation	Alis®/HP-UX	**98801V**		•		3 Mbytes	$2500.00 ea.
	Alis®/HP-UX	**98801W**		•		6 Mbytes	4000.00 ea.
Mathematics/ spreadsheet	TK!Solver®/HP-UX	**45515V**		•			$ 499.00 ea.
	TK!Solver®/HP-UX	**45515W**		•			999.00 ea.
	TK!Solver®/HP-UX	**45515U**			•		1495.00 ea.
	TK!Solver® Packs/HP-UX:						
	Financial Management	**45516V**		•	•		225.00 ea.
	Mechanical Engineering	**45517V**		•	•		225.00 ea.
	Bldg. Const. & Design	**45518V**		•	•		225.00 ea.
	Introductory Science	**45519V**		•	•		225.00 ea.
	Multiplan®/HP-UX	**45473V**		•			395.00 ea.
	Multiplan®/HP-UX	**45473W**		•			695.00 ea.
Programming	Device I/O Library/HP-UX	**82696J**	•				$ 295.00 ea.
	FORTRAN Compiler/HP-UX	**82858J**	•				395.00 ea.
	Pascal Compiler/HP-UX	**82859J**	•				395.00 ea.
	Technical Basic Upgrade Kit	**82988J**	•				395.00 ea.
	Technical Basic (ROM)	**82989J**	•				595.00 ea.
Project Management	MicroTrak™/HP-UX	**45524V**		•			$ 775.00 ea.
	MicroTrak™/HP-UX	**45524W**		•			1550.00 ea.
	MicroTrak™/HP-UX	**45524U**			•		2500.00 ea.
	PlotTrak™/HP-UX	**45524J**	•			MicroTrak/HP-UX	500.00 ea.
	PlotTrak™/HP-UX	**98800V**		•		1 Mbyte RAM	500.00 ea.
	PlotTrak™/HP-UX	**98800W**		•			1000.00 ea.
	PlotTrak™/HP-UX	**98800U**			•		1500.00 ea.
Word Processing	Memomaker/HP-UX	**45420V**		•			$ 245.00 ea.
	Memomaker/HP-UX	**45420W**		•			495.00 ea.

Letter at end of product number signifies the following:

'V' denotes single-user version for Series 200/300 HP-UX 5.1 and is distributed either on 3.5", double-sided media (Opt. 045) or ¼" tape (Opt. 022). There is an additional charge for Opt. 022. and Alis/HP-UX Opt. 045. There is no additional charge for Alis/HP-UX Opt. 022.

'W' denotes multi-user version for Series 200/300 HP-UX 5.1 and is distributed either on 3.5", double-sided media (Opt. 045) or ¼" tape (Opt. 022).

'U' denotes multi-user version for Series 500 and is distributed on ¼" tape (Opt. 022).

TK!SolverPacks/HP-UX are not single-user or multi-user specific since they are data files only.

Picture Perfect/HP-UX and Diagraph/HP-UX are only available for Models 310 and 320 and require the use of the 46084A HP-HIL ID Module.

Alis/HP-UX integrates text, spreadsheets, drawing and business graphics, database information, electronic mail, and time and calendar management all on a single screen and document. Alis/HP-UX requires the use of the 46084A HP-HIL ID Module.

There is an additional charge for Opt. 022 and Alis/HP-UX Opt. 045. There is no additional charge for Alis/HP-UX Opt. 022.

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HP 2392A Display Terminal

Compact and easy-to-use, the HP 2392A provides powerful capabilities for alphanumeric display, from data entry to program development. Also increases productivity with its additional memory, smooth scrolling, faster data communication rates, and variety of printer interfaces.

Complete alphanumerics • Up to four pages of display memory • Smooth vertical scrolling • Display enhancements and line drawing character set • Line modify, block and format modes • Twelve-inch diagonal CRT displays 24 lines of 80 characters

Ergonomics • Compact design • Integrated tilt and swivel • Anti-glare green phosphor screen • Front-panel power and brightness controls • Detachable low-profile keyboard

Ease of use • Screen-labeled function keys • Nonvolatile user-definable soft keys • Nonvolatile configuration menus

High-performance data communications • Character, line or HP block mode transmission • Port 1 offers both RS232C and HP422 with data rates up to 19.2 kpbs with handshaking • Port 2 provides either an optional RS232C Serial Interface or Centronics®-type parallel interface • Supports X.25 PAD connection

HP 2392A Display Terminal ..... $1,375.00 ea.*

Occupying just over a cubic foot of space, the HP 2392A Terminal fits easily into even the busiest workplace.

Choose the right interface, cable and output device for your terminal

Terminal	Printer interface	Printer/plotter cable, pages 49–55	ThinkJet Printer**, page 11	ColorPro Plotter***, page 26
2392A or **2394A**	**40210R** Port 2 RS232C interface ..... $210.00 ea.	**40242G** RS232C printer/plotter cable ..... $95.00 ea.	**2225D** RS232C ThinkJet Printer ..... $495.00 ea.	
	40210P Port 2 Parallel interface ..... $210.00 ea.	**40242D** Parallel printer cable ..... $95.00 ea.	**2225C** Parallel (Centronics) ThinkJet Printer .... $495.00 ea.	
2393A or **2397A**	**40210R** Port 2 RS232C interface ..... $210.00 ea.	**40242G** RS232C printer/plotter cable ..... $95.00 ea.	**2225D** RS232C ThinkJet Printer ..... $495.00 ea.	**7440A Opt 001** RS232C ColorPro 8-pen Plotter ..... $1295.00 ea.
	40210P Port 2 Parallel interface ..... $210.00 ea.	**40242D** Parallel printer cable ..... $95.00 ea.	**2225C** Parallel (Centronics) ThinkJet Printer .... $495.00 ea.	
	40210H Port 2 HP-IB interface ..... $210.00 ea.	**10833A** HP-IB cable (1.0m) ..... $80.00 ea.	**2225A** HP-IB ThinkJet Printer ..... $495.00 ea.	**7440A Opt 002** HP-IB ColorPro 8-pen Plotter ..... $1295.00 ea.

Datacomm cables

40242M U.S./European modem cable ..... $95.00 ea.
40242X RS232C direct connect to HP 3000 ATP ..... 95.00 ea.
40242P RS422 direct connect to HP 3000 ATP ..... 95.00 ea.
40242C RS232C extender cable ..... 95.00 ea.
40242Y RS232C EMP protect cable ..... 95.00 ea.

Also see page 55.

*Sorry, but quantity, contract, or other discounts do not apply to the special off-the shelf service.

**Other printers supported include HP 2603A (see page 16), 2601A, 2602A, LaserJet Printer (2686A), LaserJet PLUS Printer (2686A Opt 300), 2932A, and 2934A.

***Other plotters supported include HP 7475A (see page 27), 7470A, 7550A, 7585B, 7586B, and the 7510A Film Recorder.

Accessories and input devices for your terminal

Terminal	Accessories	Input devices
2392A or **2394A**	**92171X** Terminal-top ThinkJet Printer stand, page 14 ..... $59.00 ea.	**92915A** Bar code reader, page 106 ..... $590.00 ea.
	92171J Keyboard park, page 92 ..... $75.00 ea. or **92171C** Keyboard drawer park, page 92 ..... $95.00 ea.	
	92251E Dust cover, page 94 ..... $25.00 ea.	
2393A or **2397A**	**92171X** Terminal-top ThinkJet Printer stand, page 14 ..... $59.00 ea.	**46060A** HP Mouse, page 105 ... $148.00 ea.
	92171C Keyboard drawer park, page 92 ..... $95.00 ea.	**35723A** HP Touch, page 105 .... $400.00 ea.
		92916A Bar code reader HP-HIL, page 106 ..... $590.00 ea.

HP 2394A Data Entry Terminal

The 2394A is ideally suited to high-volume data entry jobs. Special enhancements make it your data-entry choice for HP 3000 VPLUS applications. Forms are stored locally in the terminal's memory to be displayed quickly, without system downloading from the computer. Local edit checks let you know immediately when an error is made, so incorrect data is not sent to the system. The modified data tag feature reduces data communication traffic by transmitting to the system only those fields that have been modified.

Includes all of the 2392A features, PLUS

High-performance data entry • Local forms cache • Eleven local edit checks • Modified data-only transmission • Programmable tab sequencing

Complete alphanumerics • Up to eight pages of display memory

HP 2394A Data Entry Terminal ..... $1,875.00 ea.*

HP 2393A Graphics Terminal

The 2393A offers you maximum flexibility in minimal space. With the unique HP-HIL interface, you can connect input devices and hardcopy devices simultaneously. The 2393A allows you to daisy chain up to three input devices to the keyboard, freeing the auxiliary port for hardcopy devices. Select from an impressive array of user-friendly input devices such as HP Touch.

Connect to HP plotters or printers, such as ThinkJet. Or create 35 mm slides on an HP film recorder.

Choose from a wide variety of HP software specifically designed for business applications on HP 3000 computer systems. The 2393A supports bit mapped vector graphics on a raster display with selectable resolution (see feature set).

In addition, the HP 2393A offers comprehensive alphanumeric capabilities. Up to 12 pages of text can be stored in display memory and viewed easily using smooth scrolling capabilities.

Includes most 2394A features,† PLUS

Bit mapped vector graphics • Selectable 512H X 390V or 640H X 400V pixels resolution • Primitives: polyline, area fill and text • Rubberband line.

Input devices include: Touchscreen, Mouse, Bar code reader

Output devices include: Printers, Plotters, Film recorders

Graphics software includes: HP DSG/3000, HPDRAW, HPEASYCHART, HPMAP

Complete independent alphanumerics • Up to 12 pages of display memory • Horizontal scrolling to 160 columns • Display enhancements including double-high, double-wide characters, math, italics and bold character sets

High performance data communications Peripheral port provides a choice of an optional HP-IB Interface, as well as RS232C serial interface, or Centronics®-type parallel interface.

HP 2393A Graphics Terminal ..... $2,095.00 ea.*

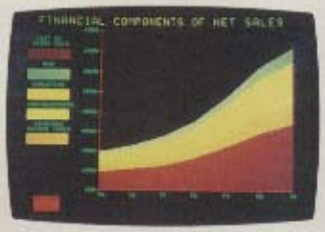
HP 2397A Color Graphics Terminal

The 2397A offers high-quality graphics, plus color. You can select eight displayable colors from a palette of 64. The default colors are red, green, blue, cyan, magenta, yellow, black and white.

In addition, the HP 2397A offers comprehensive color alphanumeric capabilities. Using eight predefined colors, you can define foreground/background color combinations (pairs) for each character cell in the alphanumeric plane. At any one time, you can display eight color pairs from a total of 64 possible pairs.

Includes all the 2393A features, PLUS

Bit mapped color graphics • Eight colors from palette of 64 • Selectable 512H X 390V or 640H × 400V pixels resolution



Independent color alphanumerics • Eight foreground, eight background colors

HP 2397A Color Graphics Terminal .....$3,095.00 ea.

Keyboard drawer park. Is your work surface too narrow to accommodate both a computer or terminal and its keyboard? HP has the perfect solution for HP 2393, 2397 and 262X Terminals and Touchscreen (HP 150A/B), Touchscreen II (HP 150II), HP Vectra PC and Model 16 Computers. The 92171C park features a drawer mounted on industrial strength ball bearing glides that can be pulled out a full 11 inches from the support stand. Constructed of 14 gauge steel, the drawer will support up to 100 pounds and can be locked in the open position for stability. Also features a built-in palm rest. Color is pearl gray. Support platform dimensions are: 5 inches (127 mm) H × 23 inches (584 mm) W × 18 inches (457 mm) D. Keyboard drawer size is 22 inches (559 mm) W × 9.75 inches (245 mm) D.

92171C Keyboard drawer park

(1–2 units)	$95.00 ea.
(3–9)	87.00 ea.
(10+)	82.00 ea.

Keyboard park features a low profile—only 2.6 inches (65 mm) high. Constructed of sturdy formed and bonded acrylic plastic the keyboard park will support HP's 2392 and 2394 Terminals as well as the Touchscreen Personal Computers (HP 150A/B/II). Exterior dimensions are: 2.6 inches (65 mm) H × 19 inches (483 mm) W × 11.2 inches (285 mm) D.

92171J Keyboard park

(1–2 units)	$75.00 ea.
(3–9)	66.00 ea.
(10+)	60.00 ea.

†HP 2394A features a local forms cache and 11 local edit checks. HP 2393A features three local edit checks alpha, numeric, and alphanumeric.

*Sorry, but quantity, contract, or other discounts do not apply to the special off-the-shelf service.

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Handheld calculators

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We are pleased to offer for your convenience a selection of computer-related books, which can be ordered without leaving your desk. These books have been carefully selected for excellence in their subject areas and also provide a selection of topics that should interest many people in different parts of any organization. For easy reference, titles are organized into major subject areas. Browse through the list and remember —these books are only a phone call away!

Handheld calculators

Quick Reference Book for the HP-12C
Evan Gost 1984

Take this handy reference book with you—it fits right in the HP-12C carrying case along with your calculator. Inside you'll find easy-to-follow examples for almost all of the popular HP-12C functions. Loan amortization, annuity value, blended rate mortgages, depreciation, future value, internal rate of return, leases, variable rate mortgages, and weighted averages are just a few of the topics discussed.

92233F ..... $6.95 ea.

Also available in a package of 25 copies.

92234U ..... $139.00 ea.

An Easy Course in Using the HP-12C C. Coffin and T. Wadman/Grapevine Publications 1984

A self-paced, easy-to-follow course book for your HP-12C Financial Calculator. Devoid of highly technical and confusing jargon, its rich conversational style and classic illustrations make learning about the HP-12C easy and fun. Filled with examples, explanations, self tests, and solutions, this text introduces you to the "How's and Why's" of loans, mortgages, investments, NPR and IRR calculations, and much more. Take your time, set your own pace, and enjoy learning to use your HP-12C.

92234S ..... $22.00 ea.

An Easy Course in Programming the HP-11C and HP-15C T. Wadman and C. Coffin/Grapevine Publications 1984

Learn to master the capabilities of your HP-11C or HP-15C calculator. In a conversant and jargon-free style, this self-paced course will help you get the most out of your calculator. Humor, graphics, examples and review questions make reading enjoyable and learning fun. Discover how to use features like data registers, stacks, decision-making, branching, indirect addressing and more. Set your own pace, and in no time you'll be using your HP-11C or HP-15C like an expert.

92234W ..... $22.00 ea.

An Easy Course in Programming the HP-41
T. Wadman and C. Coffin/Grapevine Publications 1984

Get to know your HP-41 Advanced Programmable Calculator. In understandable and friendly terms, this self-paced course leads you on an enjoyable learning excursion, complete with review questions, explanations, self tests, and lots of examples. Learn about data, stack and alpha registers; the keyboard, its functions and arithmetic; program memory, labels, flags and conditional tests; indirect addressing and alphanumerics; and much more. Soon you will be programming like an expert. Applicable to the HP-41C, HP-41CV, and HP-41CX.

92234T ..... $22.00 ea.

Using Your HP-41 Advantage: Statics for Students C. Coffin and T. Wadman/Grapevine Publications 1985

Supplement your HP-41CV or CX, and the HP-41 Advantage Pac with the unique program in this book. It's powerful enough to help you solve the internal forces of a structure by the "method of sections" and convenient enough to use for calculating simple things like supporting reactions of a statically determinate structure. Includes program listings, bar code, and easy instructions.

92235R ..... $9.95 ea.

Using Your HP-41 Advantage: Electrical Circuits for Students C. Coffin and T. Wadman/Grapevine Publications 1985

Help has arrived for those tough electrical fundamentals courses. Use this program with your HP-41CV or CX and the HP-41 Advantage Pac to calculate voltages, currents and powers in typical AC circuits. Model mutual inductance, solve for input impedances and Thevenin's and Norton's equivalents, perform parallel-series conversions and more. Includes program listings, bar code, and instructions.

92235S ..... $9.95 ea.

The HP Business Consultant Training Guide
C. Coffin and T. Wadman/Grapevine Publications 1986

In everyday English, this friendly guide explains how you can use your HP 18C Business Consultant Calculator to develop a personal list of equations and work with menus, lists, and arithmetic. Learn to use built-in financial equations, NPV, NFV, IRR, loan, lease, mortgage, and investment functions with ease.

92235T ..... $17.95 ea.

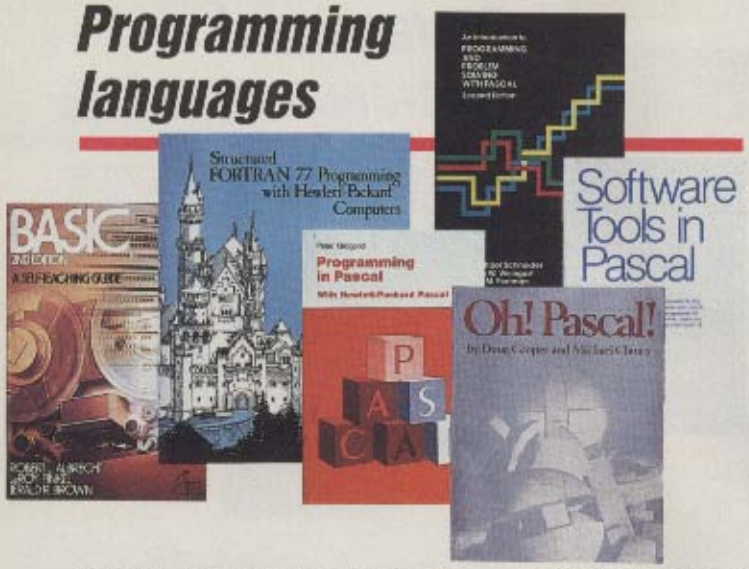
Inventions of Opportunity: Matching Technology with Market Needs Introduction by William R. Hewlett/Hewlett-Packard

Learn about HP's most significant technological developments of the last three decades. This book presents selections from the *HP Journal* which, in the opinion of William Hewlett and a panel of HP experts, best illuminate HP's most significant technological contributions to the marketplace.

The introduction by Mr. Hewlett provides rare insights into the dynamics of innovation—where a need, a technology, and creative people come together to produce a successful invention. This handsome volume is clothbound, comes with a dust cover and is more than 350 pages in length.

92233B ..... $13.75 ea.

Programming languages



Data communications

Programming languages

BASIC 2nd Edition R. Albrecht, L. Finkel and J. Brown/Wiley & Sons 1978

Teach yourself BASIC with this step-by-step beginners' guide. Every BASIC command is explained using a short working program and illustrated in a variety of business applications. BASIC varies slightly from computer to computer so consult your machine's reference manual for clarification of these differences.

The BASIC used here is very similar to the Dartmouth version, which can be considered the "common denominator" of most versions of BASIC.

92233D ..... $12.95 ea.

BASIC for Home Computers R. Albrecht, L. Finkel & J. Brown/Wiley & Sons 1978

Learn Microsoft™ BASIC with this step-by-step, self-teaching guide. Microsoft BASIC is a version of BASIC used on HP's Series 100 computers. Written by the same authors of the popular book *BASIC 2nd Edition*, this book utilizes the same successful style and format. It is suitable for the novice who has never programmed before. Commands are explained using a short working program and then illustrated in a variety of applications.

92234D ..... $11.00 ea.

Structured FORTRAN 77 Programming with Hewlett-Packard Computers Seymour V. Pollack/Boyd & Fraser 1983

Learn structured FORTRAN 77 programming from the ground up. This book is an effective introductory text for beginners. For those with experience, it provides an orderly presentation of FORTRAN 77 and its effective use. And numerous well-structured examples illustrate the use of key features of this language. All examples and programs have been tested on the HP 1000/9000.

92836-90005 ..... $40.00 ea.

Programming in Pascal with Hewlett-Packard Pascal Peter Grogono/Hewlett-Packard 1984

Programming in Pascal is a revised version of *Programming in Pascal with Pascal/1000*. It explains the computer programming language Pascal, as described by the DRAFT ANSI Standard, and the enhancements to standard Pascal provided by HP Pascal/1000 and Pascal/9000 compilers. Throughout the 10 chapters, each extension to standard Pascal is identified, and a separate appendix section summarizes the differences between standard Pascal and HP Pascal/1000 and Pascal/9000. The book assumes no prior knowledge of other programming languages and is intended for people who want to write programs in Pascal.

97882-90002 ..... $50.00 ea.

An Introduction to Programming & Problem Solving in Pascal M. Schneider, S. Weingardt and D. Perlman/Wiley & Sons 1978

An excellent general introductory book that teaches Pascal by using it as a vehicle to illustrate the fundamentals of programming and good style. Appendices contain the complete syntax of Pascal and a list of all standard Pascal identifiers, along with a description of all functions and operators. A recommended reference too for the HP 9000 Series 200 Pascal users.

09826-90072 ..... $40.00 ea.

OH! Pascal! D. Cooper and M. Clancy/Norton 1982

A self-teaching guide offering a clear, nonmathematical introduction to the standard version of Pascal. Detailed enough for independent study. "Oh! Pascal!" emphasizes: general program solving techniques; early discussion of procedures; examples suitable for interactive use—which are then modified for batch; antibugging and debugging sections in each chapter; self-check questions; and chapter tests.

92233C ..... $32.00 ea.

Software Tools in Pascal B. Kernighan and P. Plaugher/Addison-Wesley 1981

Writing good programs that make good tools is the subject of this book. This goal is accomplished by presenting a set of programs, each of which provides lessons in design and implementation. The programs are tools that have proved valuable in the production of other programs. They are complete, documented, written in standard Pascal, and tested directly from the text. Top-down design and structured programming are emphasized throughout the book, as are principles of sound design, testing, efficiency and portability. *Software Tools in Pascal* takes a pragmatic approach in that principles of good programming are not treated as abstract sermons. Rather, they are concrete lessons presented in the context of actual working programs.

92234J ..... $22.00 ea.

Data communications

Touring Datacomm: A Data Communications Primer Hewlett-Packard 1983

The Data Communications Primer introduces you to the basic concepts of data communications, beginning with a discussion of simple communications concepts and gradually moving toward more complex topics. Covers hardware and software, transmissions methods and channels, line configurations and interfaces, signal conversion, multiplexing, common carrier services, network structures and capabilities, protocols, and architectures. Designed for readers with little or no previous knowledge of data communications.

5957-4622 ..... $6.00 ea.

Communicating with IBM: An HP-to-IBM Communications Primer Hewlett-Packard 1984

Communicating with IBM is one of a series of HP primers on data communications. The first book in the series, *Touring Datacomm*, presented a broad overview of computers and data communications. This primer builds on that base and focuses on the world of HP-to-IBM communications. An overview of HP-to-IBM networks is discussed, followed by an introduction to each of the main components of those networks. Topics include: IBM mainframes, IBM operating systems, job entry subsystems, communications access methods, communications controllers, basic SNA concepts, emulation, IBM remote devices, and HP-to-IBM data communications products. As you progress through this primer, you will read about HP products that run on various systems, including the HP Touchscreen, 250, 1000, 3000, and 9000. This book provides a valuable introduction to IBM and HP-to-IBM data communications. Written for individuals who have a general background in computers and data communications, but little or no previous experience with IBM systems or with HP-to-IBM products.

5957-4623 ..... $6.00 ea.

Making the LAN Connection: A Local Area Network Primer Hewlett-Packard 1984

Another in the HP series on data communications, this primer presents a generic overview of local area networks (LANs) and gives some specific information on HP's LAN implementation. Topics discussed include the characteristics and advantages of LANs, some of the criteria for evaluating a LAN, common applications and options that must be considered for a LAN, industry standards and HP's LAN implementation, and a glossary which contains brief descriptions of terms used in the text. Written for those who have some familiarity with the concepts covered in *Touring Datacomm: A Data Communications Primer*, the first in the series of data communications primers.

5957-4624 ..... $6.00 ea.

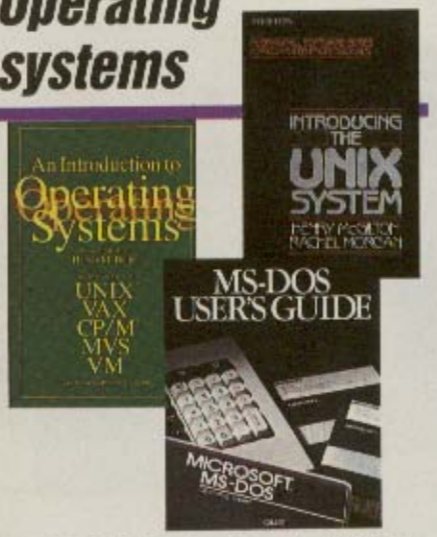
The HP-IL System: An Introductory Guide to the Hewlett-Packard Interface Loop G. Kane, S. Harper, and D. Ushijima/Osborne/McGraw-Hill 1982

Use this definitive guide to learn about the Hewlett-Packard Interface Loop (HP-IL), an eight-bit serial interface designed for portable battery-operable systems. HP-IL makes a new generation of portable systems and peripherals possible by linking the HP Series 40 Programmable Calculators, Series 70 Handheld Computers, Series 80 Personal Computers, and The PORTABLE (HP 110) Computer to low-power, low-cost peripheral devices and test equipment. The first third of this book is an overview of HP-IL and the remainder presents an in-depth discussion of HP-IL and its inner workings.

92233A ..... $22.00 ea.

It's easy to order: 800-538-8787

Operating systems



The RS-232 Solution Joe Campbell/SYBEX 1984

This is both a "how it works" and "how to work it" book on the popular, and often misunderstood RS-232C interface. A working methodology is presented to help the reader build an interface between any two "RS-232C compatible" devices. Knowledge of electronics or circuitry isn't necessary, although some knowledge of computer concepts is assumed. Topics discussed include basic RS-232C interfacing concepts, hardware and software handshaking, print buffers, pin names and numbers, device control, and testing procedures. Several case studies are presented along with a discussion of how software can dramatically alter the personality of the RS-232C interface. (See photo previous page.)

92234X ..... $18.95 ea.

Computer Networks A. Tanenbaum/Prentice Hall 1981

A comprehensive introduction to the expanding field of computer networks. Discusses network architectures and protocols from the physical layer to the application layer, and from local networks to satellite networks. No prior background in computer networks is assumed, though a general familiarity with computer systems and programming is desirable.

92233V ..... $44.00 ea.

Operating systems

An Introduction to Operating Systems H. Deitel/ Addison-Wesley 1983

An up-to-date professional reference covering all the fundamental concepts of operating systems. Major topics include: an introduction and history of operating systems, process management, storage management, processor management, auxiliary software management, system performance, networking and security issues. A final section presents five detailed case studies of major operating systems including UNIX™

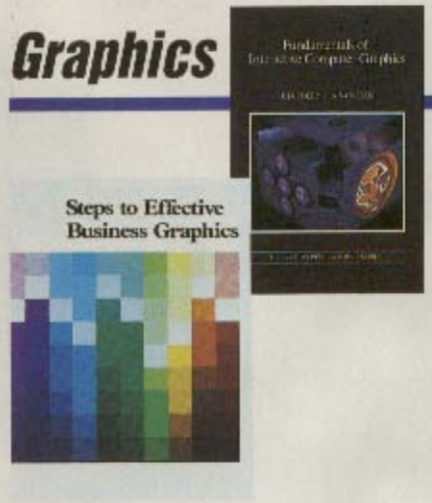
92234K ..... $39.00 ea.

Introducing UNIX ™ H. McGilton and R. Morgan/McGraw-Hill 1983

This book is both an introduction for beginners, as well as a reference for those with some UNIX™ experience. Beginners will learn to use UNIX™ in a simple fashion and how to gain more information by reading available documentation. Experienced readers will learn how to use some of the more sophisticated features such as the VI editor, nroff, and systems administration.

98688-98025 ..... 22.00 ea.

Graphics



MS-DOS™ User's Guide Chris DeVoney/QUE Corporation 1984

An excellent source of essential information about one of your computer's most important software programs, the Operating System. This tutorial explains the simple tasks you need to know as you begin to use MS-DOS,™ such as disc formatting and file copying. This book also offers a wealth of information on more advanced topics, including the MS-DOS™ hierarchical directory and I/O redirection. Particularly useful are the many hands-on learning sessions that guide you step-by-step through important procedures. The final section explains each of the MS-DOS™ commands, including examples of command syntax. An exceptional generic MS-DOS™ tutorial.

92234Q ..... $19.95 ea.

Graphics

Steps to Effective Business Graphics B. Matkowski/Hewlett-Packard 1983

A well-illustrated guide to the production of professional business graphics for information, presentation or publications. Clearly written instructions and full color examples lead the reader through all the steps involved in the preparation of effective 35 mm slides, flip charts, overhead transparencies and report graphics. Other topics include audience analysis, effective graphics techniques and selecting a computer graphics system to do the job you need.

5957-6979 ..... $12.00 ea.

Fundamentals of Interactive Computer Graphics J. Foley and A. Van Dam/Addison-Wesley 1982

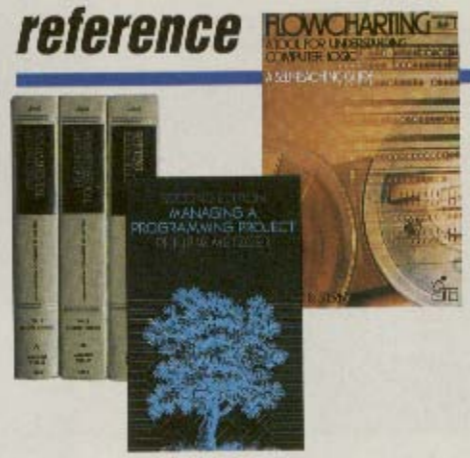
An excellent presentation of basic graphics concepts and recent advances in graphics hardware and software. A graphics applications program is developed in Pascal, using the new Core System of standard graphics subroutines. The sequence of subjects presented allows you to quickly begin programming projects and then study hardware and software issues in parallel.

Topics include:

- Systems organization, and device technology of raster and vector devices
- Core system-like subroutine package including 2D and 3D viewing, clipping segmentation, interaction handling and device driver structure
- 3D geometrical transformers, projections and bicubic surfaces
- Hierarchical data structures for graphics
- The first comprehensive treatment of color theory practice for computer graphics

92233X ..... $42.00 ea.

Professional reference



Professional reference

Art of Computer Programming–Volumes I, II & III Donald Knuth/Addison-Wesley 1973, 1981 and 1973

These books are known worldwide as "classic" technical references in their subject areas by programmers, system analysts and software developers. They may be purchased as a set or individually to complete your collection.

Volume I: Fundamental Algorithms, 2nd edition

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Managing a Programming Project P. Metzger/ Prentice Hall 1981

Learn practical approaches to managing a typical, modern computer programming job of any size and complexity. Everything needed to successfully organize and manage a project is discussed as you are guided through a project from start to finish. Topics include: the cycle, definition, design, programming, testing, acceptance, installation, and operation. Also: how to construct plans for: outlining, introduction, organization, testing, change control, documentation, training, reviewing, installation and operation.

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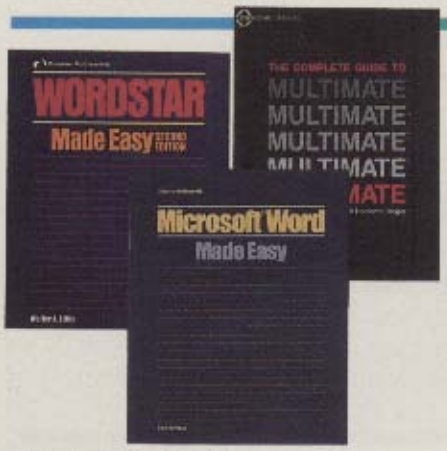

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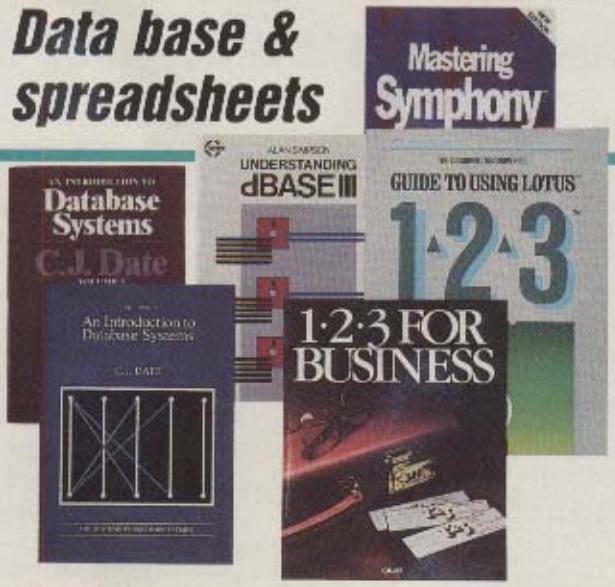

PCs & peripherals

Word processing

Wordstar® Made Easy Walter Ettlin/Osborne/McGraw-Hill 1982

Learn to use the most popular and powerful word processing system for microcomputers. In 18 easy lessons, this book helps you build the word processing skills applicable to a business environment. You gain hands-on experience producing business letters, sales reports, legal documents, manuscripts, and more. Each lesson provides sample exercises, which allow you to grasp concepts quickly and easily. This revised edition covers Wordstar® versions 1 through 3 and includes lessons on Mailmerge® and SpellStar®.

92234P ..... $15.95 ea.

Microsoft® Word Made Easy Paul Hoffman/Osborne/McGraw-Hill 1985

Everything the business professional needs to produce professional-looking reports, memos, and letters is spelled out in this comprehensive guide. A complete description of Word's basic functions and options is provided as well as instructions for using glossaries, style sheets, and Word's windows. Tips for mastering the mouse and utilizing the popular mailmerge feature are presented. The many illustrations, screen shots and practical examples make this an irreplaceable guide.

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The Complete Guide to MultiMate™ C.H. Dreger/SYBEX 1985

Business users of MultiMate—here is your most complete source of information about the features, functions, and applications of MultiMate. This easy to follow tutorial highlights practical applications and thoroughly covers editing, filing, copying and formatting procedures. A must for all business users.

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Data base & spreadsheets

An Introduction to Database Systems—Vol. I, 4th edition C. Date/Addison-Wesley 1986

A best seller in the field of relational, hierarchical and network databases. This comprehensive "basic" course is intended as an advanced text or professional reference book. Reasonable knowledge of a modern computer system's capabilities and file-handling features is assumed.

92233W ..... $33.00 ea.

An Introduction to Database Systems—Vol. II C. Date/Addison-Wesley 1982

Volume II ties together eight loosely related database topics omitted from Volume I. Included are the following system aspects: recovery, integrity, concurrence and security. Also covered are data models, RMI, distributed databases and database machines. The reader is expected to have a general knowledge of database system structures, concepts and objectives. Familiarity with the major aspects of the relational model discussed in depth in Volume I is also expected.

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Understanding dBASEIII Alan Simpson/SYBEX 1985

Learn to use dBASEIII by focusing on practical everyday examples. *Understanding dBASEIII* is a useful guide designed to help you translate dBASEII files into dBASEIII, design mailing label systems, create graphics, track finances, format and print reports, and interface dBASEIII with other software systems. There are useful tips on memo fields, quick lookups, complex sorts, record numbers in reports, customer configuration, and custom screens with dFORMAT. Written with the computer novice in mind, but certainly more experienced users can learn from the examples too.

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Guide to Using Lotus 1-2-3™ Edward Baras/Osborne/McGraw-Hill 1984

Harness the vast capabilities of the Lotus 1-2-3™ software package with this fast-moving tutorial, featuring instructions for both beginning and experienced users. You'll learn how to implement practical application models that take full advantage of Lotus 1-2-3™'s integration of spreadsheet, data base, and graphics functions. Financial forecasting, consolidating business statements, simulating dynamic processes and many more topics are included.

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1-2-3™ For Business D. Cobb and L. Anderson/QUE Corporation 1984

Learn to manage your business more effectively using the powerful integrated program, 1-2-3™. Fourteen practical business applications are presented in an interesting and readable case format. Included are models for managing cash flow, loan amortization, fixed asset management, ratio analysis, projecting cash flow, project management, and accounts receivable management. Models illustrate all of the advanced features of 1-2-3™, including keyboard macros, the data base function, range names, and graphics. Whether you are a beginning or advanced user of 1-2-3™, this book is an excellent investment.

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Mastering Symphony 2nd edition Douglas Cobb/SYBEX 1986

Put Symphony to work for you right away. This authoritative text uses examples from the business environment to illustrate Symphony's features and functions. For those who are upgrading from 1-2-3 to Symphony, the differences between the two programs are explained. For the business user, you'll find this book packed with practical applications including important tips on how to integrate Symphony's various features.

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PCs & Peripherals

The HP Touchscreen D. Flanagan/Que Corp. 1984

Get the most from your Touchscreen (HP 150 Personal Computer). This book describes major features such as the Personal Applications Manager (P.A.M.)—the user-friendly interface for applications programs. Other topics explained are easy BASIC programs, the MS-DOS operating system, and graphics capability.

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The HP 110 Portable: Power to Go! D. Flanagan/Que Corp. 1985

Designed to be an introduction for the novice, this book gives a review of hardware and software features of The PORTABLE. Screen replicas and diagrams help the user operate The PORTABLE's built-in programs: Lotus 1-2-3, MemoMaker, the terminal program, and the Personal Applications Manager (P.A.M.). Data communication between The PORTABLE and larger PCs such as the Touchscreen (HP 150 Personal Computer) is also discussed. Most topics apply to The Portable PLUS as well as The PORTABLE.

92235N ..... $17.95 ea.

LaserJet Unlimited T. Nace and M. Gardner/Peachpit Press 1986

This comprehensive guide offers help to HP LaserJet or LaserJet Plus owners who want to get the most out of their printers. Whether printing Lotus 1-2-3 spreadsheets, database reports, labels, foreign languages, musical notation, or envelopes, this book has the answers. It provides techniques for using Microsoft Word, dBASE II and III, and other popular programs with the LaserJet. It also explains the downloadable fonts and graphics features of the LaserJet Plus.

92235U ..... $25.00 ea.

It's easy to order: 800-538-8787

HP PC Communicator–reference guide for HP PC users

HP PC Communicator is Hewlett-Packard's support magazine for Touchscreen (HP 150), Vectra, PORTABLE/Portable PLUS Personal Computers, and HP 12x users. An *Encyclopedia* contains reference articles on major hardware and software products, answers frequently asked questions, gives corrections to manuals and solutions to software problems. The *Current Information* section gives up-to-date information on user groups, training courses, and software updates. Each issue also contains articles on application usage, programming techniques, and new capabilities.

Individual copies: Present and past issues are available individually. Consult an issue of the *HP PC Communicator* for part numbers.

Subscriptions: A one year subscription of six issues.

45538A HP PC Communicator (U.S.) $36.00/year

45538B (Canada)

45538C (Outside North America)

Series 100 software updates

Low-cost exchange kits are available for HP Series 100 software. Each kit consists of a new disc and/or the appropriate manual updates. Software update order forms can be found in any issue of the *HP PC Communicator*. See ordering information at left.

The independent organizations and publications listed below are offered as a service to our readers. Space limitations make it necessary to list only those organizations that are international in scope.

HP computer users groups–your worldwide connection

Interex, the International Association of Hewlett-Packard Computer Users

Dedicated to helping HP computer users get the most from their systems, Interex keeps you in touch with other HP computer users through publications, conferences, a library of current programs, and up-to-date information about the HP computing world. Interex is a professional association offering a comprehensive range of services and activities. Serving over 9000 users in over 40 countries around the world, Interex is proud of its global representation.

HP 3000 User Support Services at $500 offer an annual release of the Contributed Software Library; *Interact*, the industry's leading publication for the HP 3000 community; *Interrupt*, the monthly newsletter; voting privileges; software discounts, training seminars, documentation, and more!

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Standard Users Support Services, available for HP personal computer users at $70, include *Interact* magazine, *Interrupt* newsletter, one free diskette from the Personal Computer Contributed Software Library, and discounts on other Interex activities and services. All payments should be in U.S. funds.

HP 9000 users are now offered a choice of two User Support Services. For more information please call or write for a FREE information packet: Interex, 680 Almanor Ave, Sunnyvale, CA 94086, USA, (408) 738-4848.

Trade publications–your window into the world of HP computers

Each month, Wilson Publications offers two different publications directed at two types of HP computer users: commercial/business and technical/scientific. If you use HP 9000, 1000, Series 80, "technical" HP Vectra computers or HP instruments, subscribe to *The Chronicle Magazine*. If you use HP 3000, Touchscreen (HP 150), 110, Series 100, 250 or HP Vectra systems, subscribe to *The Chronicle Newspaper*.

The Chronicle Newspaper: Each issue provides the latest information and product announcements of HP products. Reader Service, a quarterly software directory, and handy retail information are also included. Subscriptions are $34 per year in the U.S. and $58 per year elsewhere. All payments should be in U.S. funds.

Call or write: *THE CHRONICLE NEWSPAPER*, Wilson Publications, Inc., PO Box 10998, #450, Austin Texas 78766, (512) 250-5518.

The Chronicle Magazine: The independent monthly journal for HP 1000, 9000 Series 200/300/500, Series 80 and Vectra technical computer users. Each issue presents helpful programming tips, scientific and engineering applications, software/hardware reviews, hard-driving news, and new product updates. The writers strive to answer your questions, and columnists lead you deep into the recesses of various operating systems. Yearly subscriptions are $39 in the U.S. and $63 elsewhere. All payments should be in U.S. funds. Call or write: *THE CHRONICLE MAGAZINE*, Wilson Publications, Inc., PO Box 10998, #450, Austin, Texas 78766, (512) 250-5518.

Super Group is a worldwide association of HP 3000 users. As a member, you'll receive 12 issues a year with articles by the experts, user experience stories, product announcements, and vendor profiles. A special issue in May contains third-party references for HP products. Membership amount is $48 per year in U.S. funds. Contact: SuperGroup Association, 348 East South Temple, Salt Lake City, Utah 84111, (801) 521-3000.

Learning COBOL II/3000

This is an entry-level course to teach beginning programmers or programmers who have experience with other languages to write COBOL II programs interactively on the HP 3000 Computer. It has no formal prerequisites but familiarity with basic computer concepts is desirable.
Course Content:
- Simple COBOL programming
- Program variations
- The structure and syntax of COBOL
- Simple arithmetic statements, comments, diagnostics
- Advanced arithmetic and control statements
- Additional data concepts
- All about files
- Applied interactive COBOL

22832A Learning COBOL II/3000. Course materials include: Set of nine audio cassettes (playable on any standard cassette player) with storage binder, one student workbook, one "COBOL II/3000 Reference Manual" and one "Using the HP 3000 Manual." Course completion time is approximately 25 hours.
Price . . . . . $475.00 ea.

22832-93001 Learning COBOL II/3000 Student Workbook. Extra workbook for course.
Price . . . . . $200.00 ea.

Using Dictionary/3000

This self-paced course is an introduction to Dictionary/3000, HP's data dictionary facility. It does not teach database design but leads you through the steps of defining entries in the data dictionary and of creating and maintaining IMAGE/3000 databases. This course is designed for the non-technical user and is intended for a database administrator or for a programmer acting as a database administrator. Prerequisites for this course are the course "HP 3000, A Guided Tour" (See 22835B) or general knowledge of the HP 3000 gained through experience. Knowledge of IMAGE/3000 is helpful but not necessary for those who will not be designing new databases. Course content:
- Presenting Dictionary/3000
- IMAGE data structures
- Interactive data basics
- Commanding your files
- File security
- Dictionary/3000 utilities

There are system prerequisites for the course. Hardware needed: HP 3000, character or block mode terminal. Software needed: MPE III, IV, or V, IMAGE/3000 and Dictionary/3000.

22843B Using Dictionary/3000. Course materials include a 1600 BPI tape (for data cartridge format, specify option 022), one set of self-paced booklets containing reading material, practice exercises, answers to exercises, and one copy of "Dictionary/3000 Reference Manual." Complete instructions are included for the system manager to install the course on your 3000. Course completion time is approximately 12 hours.
Price . . . . . $500.00 ea.
Specify Opt. 022 for data cartridge format.

22843-60001 Self-Paced Booklets. Extra set of booklets for Using Dictionary/3000.
Price . . . . . $115.00 set

HP 3000: A Guided Tour

22835B HP 3000 Guided Tour Kit

"A Guided Tour" is a self-paced learning course that acquaints you with the range of information handling tools that are directly available on your HP 3000. It is designed for all non-programmers, administrative, clerical, professional people who want to know about and use the HP 3000 Computer System.
Course Content:
- General concepts–Operating the terminal, logging on and off, executing a program
- Issuing commands–Commonly used commands discussed, HELP facility and user commands
- File system–Files on the HP 3000; what they are, how they are used and how to access them
- Account structure–Discussion of security/user structure
- Entering data–Application program used to explain data entry functions
- Databases–Discussion of how data is stored after entry and how QUERY can be used to access the data
- Entering text–A brief lesson in EDIT/3000. Introduces you to the idea of using the computer for such common tasks as report generation

There are system prerequisites for the course. Hardware needed: HP 3000, HP terminal which supports V/3000 (block mode). Software needed: MPE date coded 2011 or later, Editor, IMAGE/3000, QUERY/3000 and V/3000.

22835B HP 3000: A Guided Tour. Course materials include a 1600 BPI magnetic tape (for data cartridge format, specify option 022), three sets of self-paced booklets (one terminal per user is required), and complete instructions for the systems manager to install the course on your HP 3000. Course time is approximately seven hours.
Price . . . . . $375.00 ea.
Specify Opt. 022 for data cartridge format.

22835-60001 Self-Paced Booklets. Extra set of booklets for "A Guided Tour."
Price . . . . . $41.00 set

Programming in Transact/3000

This self-paced course is for experienced programmers. It introduces the HP Transact/3000 programming language. You learn at your own pace effective programming techniques through exercises and numerous examples. The course assumes a knowledge of the HP 3000, plus a knowledge of IMAGE/3000 databases and of VPLUS/3000 forms (FORMSPEC) for the last two content modules.
Course Content:
- Getting started–An introduction to Transact/3000
- Using data items
- Rounding out Transact
- Data management overview
- Using IMAGE with Transact
- Using VPLUS with Transact

There are system prerequisites for this course. Hardware: HP 3000, character or block mode terminal for content modules 1 through 5 and a terminal that supports VPLUS/3000 for content module 5. Software: MPE III, IV, or V, Transact/3000, IMAGE 3000 and VPLUS/3000.

22842A Programming in Transact/3000. Course materials include a 1600 BPI tape (for data cartridge format, specify option 022), one set of self-paced booklets containing reading material, practice exercises, answers to the exercises, and one copy of the "Transact/3000 Reference Manual." Complete instructions are included for the system manager to install the course on your HP 3000. Course completion time is approximately 32 hours.
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Specify Option 022 for data cartridge format.

22842-60001 Self-Paced Booklets. Extra set of booklets for programming in Transact/3000.
Price . . . . . $77.50 set

Other courses

22833B Using HP Decision Support Graphics/3000. Includes Reference Manual, Quick Reference Guide, and two self-paced course booklets.
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Popular reference manuals

For your convenience, a listing of the most frequently ordered Hewlett-Packard computer reference manuals appears below.

If you have technical questions concerning computer reference manuals in general, please contact your local HP sales office. For a listing of these offices, refer to sales region index in the center of the catalog.

Computer peripheral reference manuals

Tape drives

7970 Series Operating Manual	07970-90885
7970B/E Service Manual	07970-90887

Disc drives

7906 Service Manual	07906-90903
9114A Operator's Manual	09114-90000
9121D/S and 9122D/S Operator's Manual (English)	09122-90000

Printers

2225A ThinkJet Owner's Manual	02225-90031
2225B ThinkJet Owner's Manual	02225-90032
2225C ThinkJet Owner's Manual	02225-90033
2225D ThinkJet Owner's Manual	02225-90034
2225 Series ThinkJet Service Manual	02225-90079
2630B Family Service Manual	02631-90919
LaserJet Printer Operating Reference Manual	02686-90914
LaserJet Family Technical Reference Manual	02686-90912
LaserJet Service Manual	02686-90920
2930 Series Owner's Manual	02932-90001
82906A Printer Owner's Manual (English)	82906-90001

Plotters

ColorPro Graphics Plotter Programming Manual	07440-90001
ColorPro Graphics Plotter Operating Manual	07440-90002
7470A Graphic Plotter Interfacing & Programming Manual	07470-90001
7470A Graphic Plotter Operating Manual	07470-90002
7475A Graphics Plotter Interfacing & Programming Manual	07475-90001
7550A Graphics Plotter Interfacing and Programming Manual	07550-90001
7580B/7585B/7686B Drafting Plotter Operating & Programming Manual	07580-90034

Terminals

2392A/2394A Reference Manual	02394-90001
2392A/2394A Service Manual	02394-90003
2621 Interactive Terminal Owner's Manual	02620-90062
2622A/2623A Display Station Reference Manual	02622-90008

Personal/desktop computer reference manuals

Series 80

HP-85 Owner's Manual (English)	00085-90002
HP-85 Owner's Manual (French)	00085-90014
HP-85 Owner's Manual (German)	00085-90020
HP-85 Matrix ROM Manual (English)	00085-90144
HP-85B Owner's Manual and Programming Guide	00085-90990
Introduction to the HP-86B	00086-90060
Series 80 I/O ROM Owner's Manual (English)	00087-90121
Series 80 I/O ROM Pocket Guide (English)	00087-90122
Series 80 Plotter Programming Guide	07580-90032

Series 100

PORTABLE Owner's Manual	00090-90004
PORTABLE MS-DOS User's Guide	00090-90006
MEMOMAKER User's Manual for the PORTABLE	00090-90019
HP150/MS-DOS User's Guide	45624A
HP150 Technical Reference Manual	45625A
HP150 Internal Modem User's Manual	45640-90002
Setting Up Vectra Manual	45934-90001
Connecting Peripherals to Vectra Manual	45934-90002
Vectra Service Manual	45935-90002

HP 260 reference manuals

Operating/Managing your HP 260	45261-90001
Preparing for your HP 260	45261-90003
Installing your HP 260	45261-90006
HP 260 Syntax Reference Manual	45621-90063

HP 1000 reference manuals

Operating system

Getting Acquainted with RTE-IVB Manual	92068-90001
RTE-IVB Terminal User's Manual	92068-90002
RTE-IVB Quick Reference Guide	92068-90003
RTE-IVB Programming Reference Manual	92068-90004
RTE-IVB Batch & Spool Reference Manual	92068-90005
RTE-IVB Systems Manager Manual	92068-90006
RTE-IVB On-Line Generator Manual	92068-90007
RTE-IVB Utility Program Reference Manual	92068-90010
RTE-A User's Manual	92077-90002
RTE-A Quick Reference Guide	92077-90020
RTE-6/VM Quick Reference Guide	92084-90003
RTE-6/VM Terminal User's Reference Manual	92084-90004
RTE-6/VM Programming Reference Manual	92084-90005

Subsystem/applications

DS/1000-IV User's Manual	91750-90002
IMAGE/1000 Reference Manual	92069-90001
IMAGE/1000 Database Management Manual	92069-90005
EDIT/1000 User's Guide	92074-90001

Language

RTE FORTRAN IV Reference Manual	92060-90023
PASCAL/1000 Reference Manual	92832-90001
Programming in PASCAL	97082-90002
RTE FORTRAN 4X Reference Manual	92834-90001
FORTRAN 77 RTE-6/VM and RTE-A Reference Manual	92836-90001

General information

Site Preparation & Planning Workbook	02170-90016
Data Systems Customer Support Handbook (2114/15/16, 2100, 21MX-M & E Series)	5950-3767
HP 1000 M/E/F Technical Reference Handbook	5955-0282
HPWORD IV Reference Guide–Part 1	32120-90030
HPWORD IV Reference Guide–Part 2	32120-90031
LAN Link Hardware Troubleshooting Manual	5955-7681

HP 3000 reference manuals

Operating system

MPE Commands Reference Manual	30000-90009
MPE Intrinsics Reference Manual	30000-90010
MPE Segmenter Reference Manual	30000-90011
MPE IV System Manager Reference Manual	30000-90014
MPE IV System Utilities Reference Manual	30000-90044
Software Pocket Guide	30000-90049
Computer Systems Console Operator's Guide	32002-90004
MPE V Systems Operating and Resource Management Reference Manual	32033-90005
MPE V Commands Manual	32033-90006
MPE V Intrinsics Manual	32033-90007
MPE V Utilities Reference Manual	32033-90008
MPE V Guide for the New User (HP 3000 Guide for the New User)	32033-90009

Subsystem/utility

EDIT Reference Manual	03000-90012
FCOPY Reference Manual	03000-90064
QUERY Reference Manual	30000-90042
KSAM Reference Manual	30000-90079
V/3000 Reference Manual	32209-90001
IMAGE/3000 Reference Manual	32215-90003
TURBO IMAGE Reference Manual	32215-90050

Languages

BASIC/3000 for Beginners	03000-90025
BASIC/3000 Pocket Guide	03000-90050
Using the HP 3000: An Introduction to Interactive Programming	03000-90121
SPL/3000 Reference Manual	30000-90024
SPL/3000 Textbook	30000-90025
BASIC/3000 Interpreter Manual	30000-90026
FORTRAN/3000 Reference Manual	30000-90040
COBOL/3000 Reference Manual	32213-90001
Using COBOL: A Guide for New Users of HP 3000 Computer Systems	32213-90003
COBOL II/3000 Reference Manual	32233-90001

Data communications

Fundamental Data Communications Handbook	5957-4634
Data Communications Guide Book	5955-1715

Information systems

HP Draw Reference Manual	32108-90001
HP Easy Chart Reference Manual	32109-90001
HPWORD IV Quick Reference Guide	32120-90002
Getting Started with HPWORD V	32120-90032
HPWORD V Quick Reference Guide	32120-90033
Printing with HPWORD V Manual	32120-90034
Using HPWORD V Manual	32120-90035
HPLISTKEEPER Users Guide/Reference Manual	32132-90001
Deluxe VISICALC 3000 Manual	32133-90010
DICTIONARY/3000 Reference Manual	32244-90001
REPORT/3000 User's Guide	32245-90001
INFORM/3000 User's Guide	32246-90001
TRANSACT/3000 Reference Manual	32247-90001
DSG/3000 Manual	32250-90001
HPDESKMANAGER Administration Manual	36570-90004
Using HPDESKMANAGER III Manual	36570-90038
Using HPSLATE Manual	36576-90030
TDP/3000 Quick Reference Guide	36578-90003
TDP/3000 Reference Manual	36578-90004

General information

3000 Series 64 Site Preparation Set	30140-60085
LAN Link Hardware Troubleshooting Manual	5955-7681

HP 9000 reference manuals

Series 200/300

BASIC 2.0 Programming Techniques Manual (with BASIC 2.1 Extension)	98612-90011
BASIC 2.0 Language Reference Manual (with BASIC 2.2 Extension)	98612-90056
BASIC 4.0 Manual Kit	98613-87904
BASIC 4.0 Condensed Reference Manual	98613-90061
HPL 2.1 Condensed Reference Manual	98614-90020
HP-UX Manual Kit	98680-87901
PASCAL 3.0 Manual Kit	98615-87902
PASCAL 3.1 Manual Kit	98615-87903

Series 500

BASIC Manual Package	97050-80020
BASIC Programming Techniques Manual	97050-90000
BASIC Graphics Programming Techniques Manual	97052-90000
IMAGE Database Programming Techniques Manual	97053-90000
HP-UX Reference Manual	09000-90008
Local Area Network User's Guide	97059-90000
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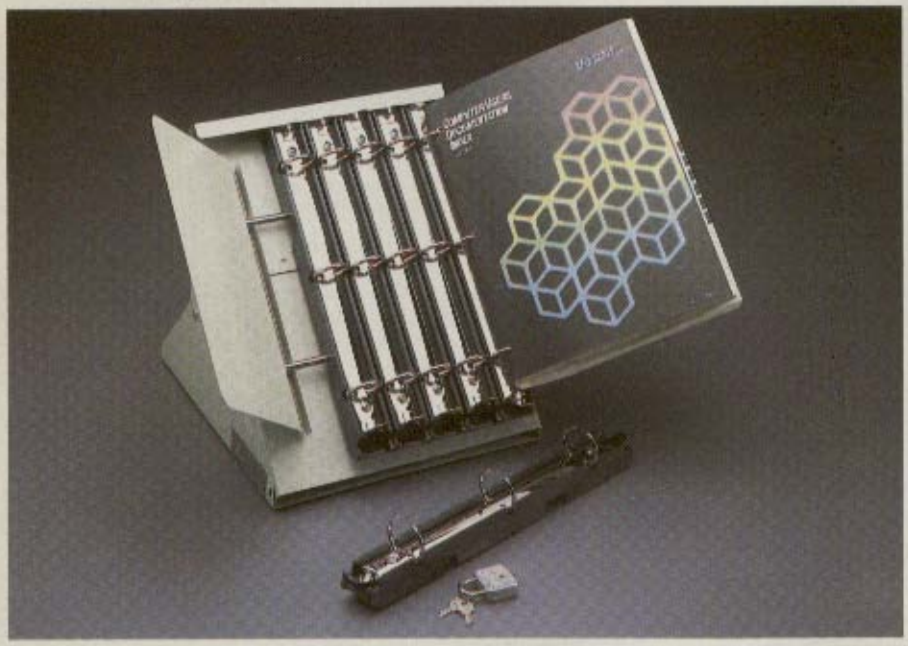

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- Strong support wings let the pages lie open and flat
- Adjustable for user comfort–30 or 40 inches for stand-up or sit-down comfort
- Holds up to 6 inches of standard three-hole-punched documentation (8.5 × 11 inches)
- Expandable–racks may be coupled to build larger storage systems

(1–2) ..... $60.00 ea.
(3+) ..... 56.00 ea.

92171L Locking bar for documentation storage rack. This metal security bar with lock set prevents unauthorized removal of your reference documents. For use with product number 92171M.
Price ..... $20.00 ea.

HP documentation binders–handsome and rugged

Need convenient storage for your HP documentation? Order HP documentation binders . . . Ideal for sales literature, manuals and instruction books. Quality construction in .015 virgin vinyl. Rings have open/close boosters. For 8.5 × 11-inch page sizes. All binders are three-ring style.

9940-4192 1-inch blue HP documentation binder
(1–9 binders) ..... $8.00 ea.
(10+) ..... 6.00 ea.

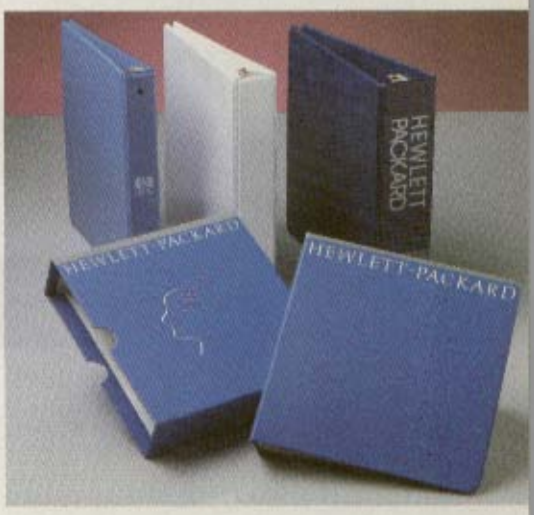
9940-4196 1.5-inch blue HP documentation binder
(1–9 binders) ..... $9.50 ea.
(10+) ..... 7.00 ea.

9940-4622 2-inch blue HP documentation binder
(1–9 binders) ..... $12.00 ea.
(10+) ..... 8.50 ea.

9282-0069 2-inch white HP 3000 System documentation binder
(1–9 binders) ..... $11.00 ea.
(10+) ..... 8.00 ea.

9282-0528 2.5-inch white HP 3000 System documentation binder
(1–9 binders) ..... $14.00 ea.
(10+) ..... 10.00 ea.

5958-0210 HP Touchscreen/Integral PC documentation binder and slip cover–the ideal replacement for lost or damaged HP Touchscreen or Integral PC binders. Holds up to 1.25 inches of 7- × 8.5-inch three-ring documentation.
Price* ..... $15.00 ea.
*Quantity discounts available.



Need a space-efficient niche for your binders?

Our compact workstation cabinet is made to order. Although it stands only 38 inches tall and 36 inches wide, its surprisingly spacious interior can hold up to 18 one-inch three-ring binders and still have plenty of room for your disc cartridges, packs, paper, and other supplies.

For your convenience, the cabinet features one fixed and two roll-out shelves, as well as a locking tambour door that glides open for easy access.

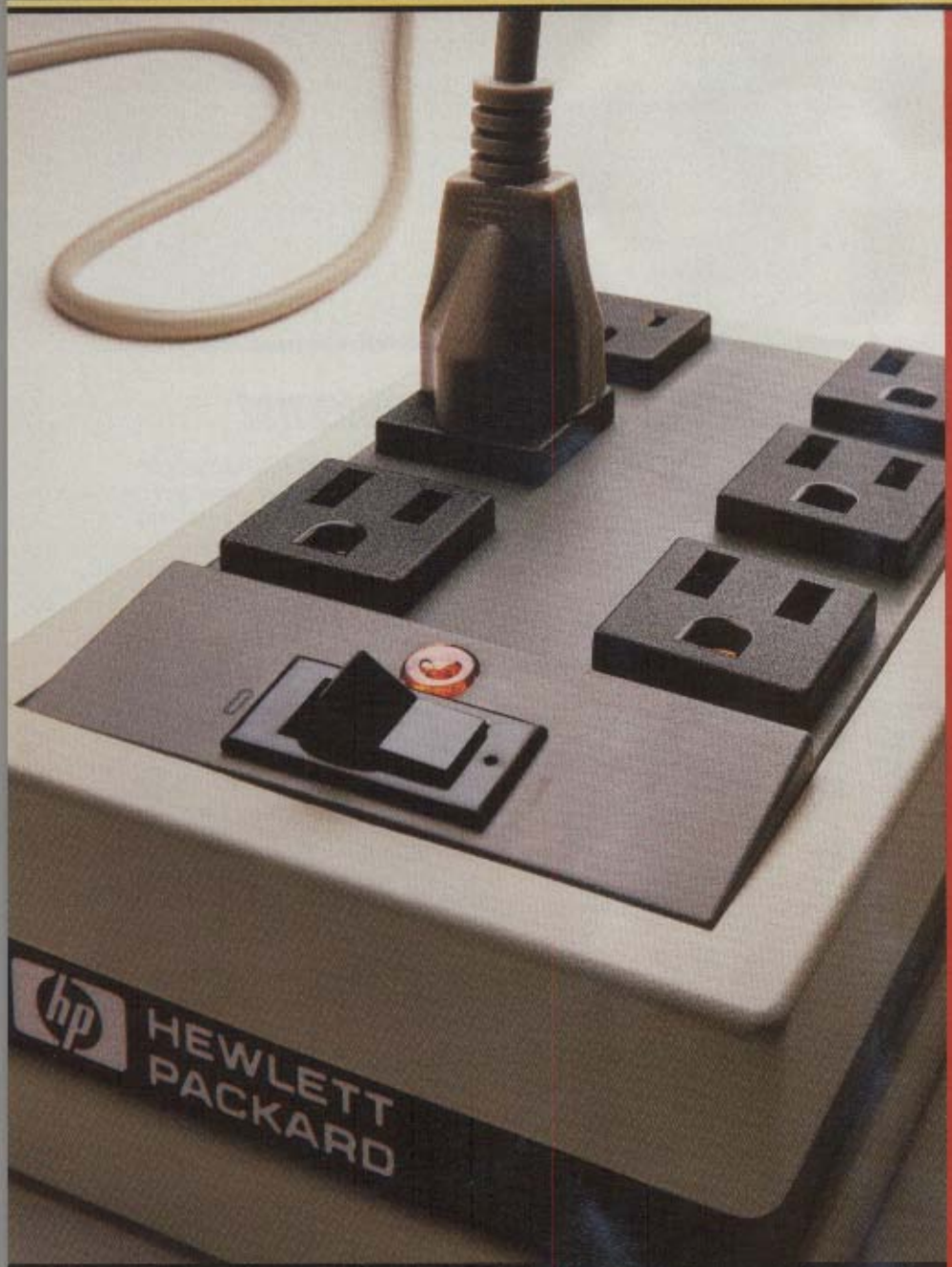
You'll also appreciate the cabinet's visual appeal. The handsome cream-gray finish and optional oak top complement one another and lend themselves beautifully to any office decor.

Finally, your cabinet will arrive pre-assembled, and we pay the freight! For more details on our complete line of versatile storage cabinets, see pages 86–88.

92272A Workstation storage cabinet.
(1 cabinet) ..... $825.00 ea.
(2+) ..... 780.00 ea.

92272J Oak top. Top is simulated oak woodgrain.
(1 top) ..... $65.00 ea.
(2+) ..... 55.00 ea.

DATACOMMUNICATIONS & POWER CONDITIONERS

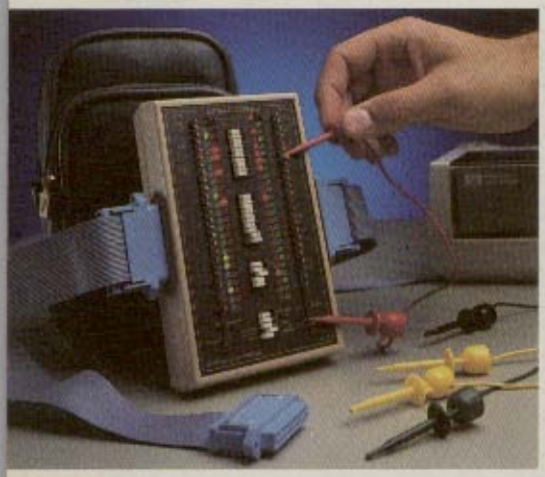


HP power line conditioners...engineered specifically to match the power requirements of Hewlett-Packard computer systems. To provide protection against power problems that can create computer problems, select from the surge suppressors/isolation regulators in this section.

Test devices 128
Modems 129
Peripheral enhancers..... 132
Power line conditioners .. 133
Multiple outlet power strips..... 136

It's easy to order: 800-538-8787

Eliminate the guesswork in RS232 testing!



"The Datatracker has cut my interfacing time from hours to minutes. *Before I purchased the Datatracker, I would quiver in my boots when a customer came up with an RS232 interfacing problem. Breakout boxes could not monitor all lines available, and LEDs could neither distinguish high and low voltages accurately, nor make multiple ties to a single lead. Troubleshooting was an impossible chore! The Datatracker, however, gives me red and green lights on all 25 leads on each side, and its ¼-inch turret pins let me clip on as many leads as I will ever need. Using this fine tool has helped me to discern whether serial transmission problems lie in the interface or in the equipment. The instruction manual is also very helpful in covering all aspects of RS232 communications. Its interfacing and troubleshooting guides are a virtual guarantee that no data interface problem will ever beat me again."*

Mike Eisen, President
Beacon Systems
Palm Springs, California

Datatracker quickly troubleshoots datacom problems!

Datatracker is both a breakout box and a cable tester. It monitors high, low, off, and clocking signals on all 50 lines of a cable interface. The complete interface is shown on all the lines, which means no patching is necessary, and cable configuration can be tested in a matter of seconds.

Instruction manual, interfacing guide and a padded carrying case included.

92284N Datatracker
(1–2 units) ..... $239.95 ea.
(5+ units) ..... 219.95 ea.
92284U Additional mini clip leads
(1 pkg. of 4) ..... $19.95 ea.

Universal cable for Datatracker

Extension cable has both male and female 25-pin connectors on each end.

92284S Universal cable (4-ft. or 1.2 m) ..... $49.95 ea.

Pulse Tracker detects activity on two lines at one time

The Pulse Tracker is a pocket-sized, in-line device that detects pulse or data activity on any two signal lines simultaneously. It requires no batteries and can be used independently or in conjunction with the Datatracker. Instruction manual included.

92284T Pulse Tracker
(1–4 units) ..... $49.95 ea.
(5+ units) ..... 46.95 ea.

Cable Test Adapter great for single-ended cable testing!

The Cable Test Adapter is an optional accessory used for single-ended cable testing. To determine open circuits, short circuits, or single-sided connections, simply connect one end of the suspect cable to the DataTracker and the other end to the Cable Test Adapter. Reverse the procedure to test both sides. Package includes male and female DB-25 connectors.

92284P Cable Test Adapter
(1–4 units) ..... $29.95 ea.
(5+ units) ..... 27.95 ea.

MicroPatch makes your custom interfacing a snap!

The MicroPatch is an RS232 adapter that can be used to make a custom interface in just minutes without stripping, cutting, crimping or soldering, and without custom cables. It's designed with pins 1 and 7 wired straight through. All other pins allow plug-in patching. For a temporary fix or permanent connection, reusable patch wires can be inserted through a thin, self-healing silicone rubber. Plastic hood seals the wiring. Hardware is included for secure installation.

92284J MicroPatch (male to male)
92284K MicroPatch (male to female)
92284L MicroPatch (female to female)
(1–4 units) ..... $29.95 ea.
(5+ units) ..... 27.95 ea.

Minitracker/Minitracker Plus detects communication between two devices

If you simply need to determine whether or not two devices are communicating, either the MiniTracker or the MiniTracker Plus can get the job done. The MiniTracker monitors the eight most commonly used RS232 (V.24) lines (2, 3, 4, 5, 6, 8, 11, 20). The MiniTracker Plus monitors all 24 lines (1–6, 8–25) simultaneously with line 7 functioning as the signal ground. A red LED on indicates a high voltage (+3V to +25V) while a green LED on indicates a low voltage. Both LEDs flashing indicates data is transmitting. Both monitors are pocket-sized and require no batteries. Instructions included.

92204Q MiniTracker
(1–4 units) ..... $29.95 ea.
(5+ units) ..... 27.95 ea.
92204R MiniTracker Plus
(1–4 units) ..... $49.95 ea.
(5+ units) ..... 46.95 ea.

See page 48 for shielded RS232C gender converters.

Combine speed & ease of use with HP Express SERVICE Hayes Smartmodems™

Hayes Smartmodem 2400™ will allow you to reduce the time and cost of your data transmissions while communicating with more capability. It's twice as fast as the Smartmodem 1200 and makes micro, mini and mainframe computer communications possible.

Great flexibility With this versatile modem, you can download from the mainframe at the office in synchronous mode. And you can send data to the mini at another location or connect with any of the information services in asynchronous mode.

More speeds, more compatibility Capable of operating at several speeds, the Smartmodem 2400™ can transmit at 2400 bps for economical high-volume communications. It also can automatically adjust to 300, 600, 1200 and 2400 bps to accommodate modems with varying speeds.

Features

- Synchronous and asynchronous mode operation at 2400 bps
- Automatic adjustment to 2400, 1200, 600 and 300 bps
- Speaker volume control via keyboard
- Voice/data capabilities
- High speed indicator
- Fully compatible with Hayes Smartmodem 1200™
- Call progress monitoring
- Programmable non-volatile memory
- Meets CCITT V.22 and V.22 bis, Bell 212A, and Bell 103 requirements
- Auto dial/auto answer

Complete on-line support is available through Hayes Microcomputer Products, Inc.

92205B

(1 unit).....$899.00 ea.
(2–4).....869.00 ea.
(5+).....839.00 ea.

Hayes Smartmodem 1200™ combines speed with ease of use to make transferring large volumes of data over long distances economical and worry free. Connect the Smartmodem 1200™ to your computer's RS232 port, plug it into your telephone jack and you're ready to communicate with other computers, databases, information services and bulletin boards over dial-up phone lines. Since the Smartmodem 1200™ operates at up to 300 bps and 1200 bps, it's like getting two modems in one. The modem automatically adjusts to the speed of incoming data and works at both full or half duplex. A speaker provides audio monitoring of your call's progress and the modem operates with Touch-Tone® or pulse dialing.

Features

- Ease of use–Simple, fast direct connection to phone lines. Monitor call progress with indicator lights and speaker.
- Optional speeds–Operates at 1200 bps or 300 bps for varied speed requirements.
- Adjusts automatically to incoming data speed.
- Auto dial/auto answer–Unattended operation frees you to perform other activities and take advantage of lower nighttime phone rates.
- Convenient redialing–Redials last number called with either Touch-Tone or pulse capability.

Complete on-line support is available through Hayes Microcomputer Products, Inc.

92205A (In Canada, order 92205C)

(1 unit) ..... $550.00 ea.
(2–4) ..... 525.00 ea.
(5+) ..... 500.00 ea.

For cables, see pages 40-56.

HP Express SERVICE "the quick fix" for Hayes Smartmodems

If a Hayes Smartmodem purchased from HP becomes defective, use our 92203X Express Service to receive a replacement within 24 hours.

How Express Service works

It's simple. If your modem needs to be replaced, call us direct (800) 538-8787, Monday through Friday. No advance contractual commitment or monthly charge is required. Order part number 92203X Express Service and the product number of the modem to be replaced.

It's fast. To ensure overnight delivery, place your order before noon each weekday, Pacific Time. A sales consultant will arrange for overnight air shipment.

It's inexpensive. If your modem is in warranty when you call, you will be charged $10 plus the cost for overnight shipping.

You also will receive a bill for the cost of a new modem. However, when you send us (by regular carrier, shipping prepaid) your original, complete unit within 10 days of your call, you'll receive full credit for the new unit. Your actual payment will be only for HP Express Service ($10) and the shipping charges.

Out-of-warranty fixed-price repair charges

If Express Service is performed after HP's standard 90-day warranty has expired, you will be billed the fixed-price repair charge (92203R).

92203X HP Express Service .. $10.00

92203R Fixed-price repair charge for modem not in warranty (includes 92203X HP Express Service) $95.00

Overnight shipping (depends on product and customer location).

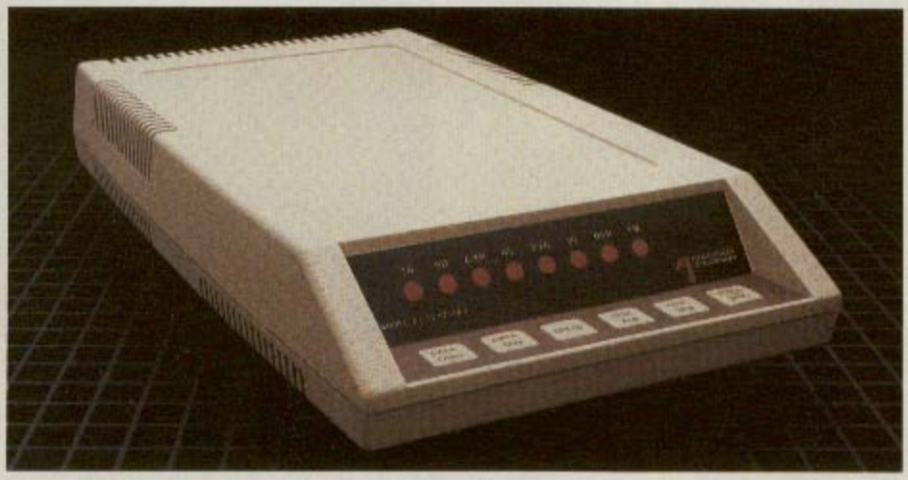
Available in U.S. only

It's easy to order: 800-538-8787

Remote dial-up access for HP 3000 users

92205J modem from Anderson Jacobson is ideal for remote data transmissions that require automatic dialing at 1200 or 300 bps.

Using this modem (which is the same modem currently used for the HP Support Link II program), eliminates the need to retrain HP 3000 users on another modem. Compatible with Bell 103/113 and 212A standards, the Anderson Jacobson modem stores up to 16 telephone numbers–up to 37 digits each–in non-volatile memory. Dialing can be accomplished through the use of the stored numbers or from the keyboard. This modem also can identify the parity and data rate, then set itself accordingly. When the handset is lifted, it guards against data loss.



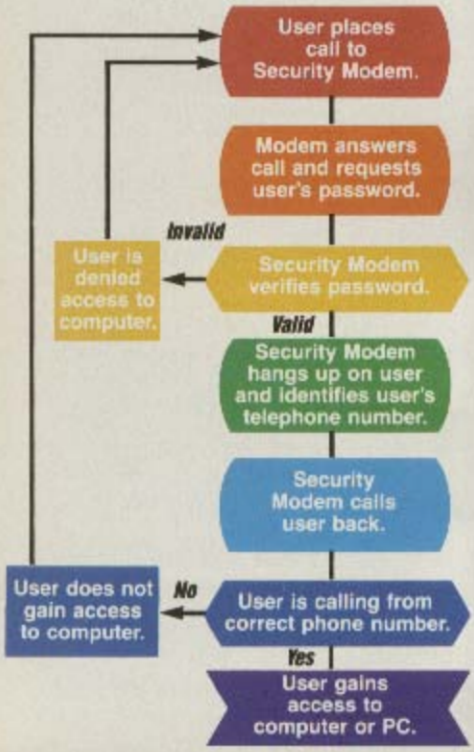
Other features include automatic redialing of an uncompleted call, single-key redialing, automatic linking of an alternate number, and tandem dialing sequence with programmable pause. Complete on-site support is available through the local Anderson Jacobson service office or via the Anderson Jacobson toll-free support line.

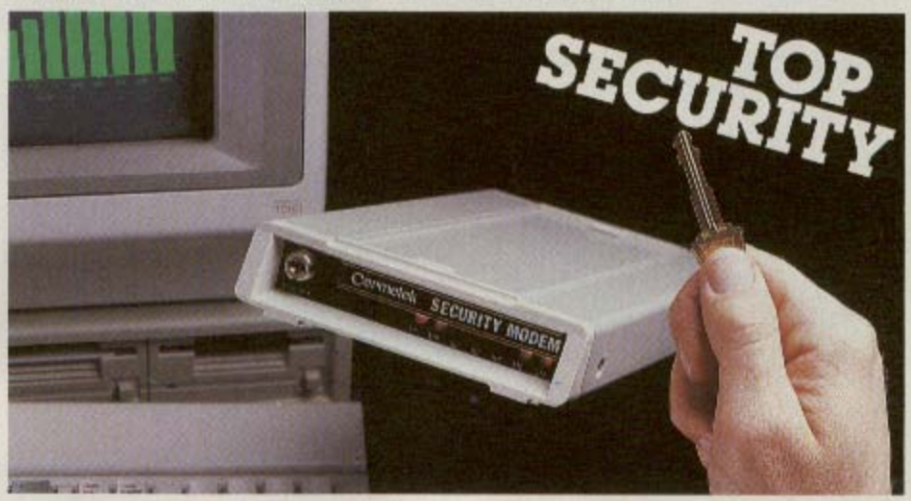
92205J

(1 unit)	$595.00 ea.
(2–4)	585.00 ea.
(5+)	575.00 ea.

Guard your computer against unauthorized access

Security modem offers round-the-clock protection





Security modem creates an electronic security barrier that allows only authorized callers to gain access to your computer. It requires callers to know a password and be at a specified phone number to receive the modem's return call before computer access is allowed.

When an access call is made, the security modem asks callers for their user ID password. If the password is valid, the modem instructs the caller to hang up and wait for a return call. The modem then calls the phone number linked with the password stored in the modem's memory. The modem can store passwords and call-back numbers for up to 25 users (see diagram at left). For an even more elaborate security system, the security modem can be set up with two phone-line jacks–one for accepting calls and one for call-backs. The phone number for the outgoing line can be kept secret to prevent interception of the call-back by a sophisticated breaker.

Access security can be set at four different levels: no security, password only, password call-back on one telephone line, or password and call-back on a second telephone line. The security modem also can be used as a standard Bell 212A or 103 modem and is fully compatible with the Hayes Smartmodem 1200™.

Complete on-line support is available from the manufacturer, Cermetek.

92205G

(1 unit)	$595.00 ea.
(2–4)	580.00 ea.
(5+)	565.00 ea.

For cables, see pages 40-56.

HelpLine Call Certificates—fast, personalized, technical advice

Speedy, convenient and expert help with your HP personal computer software questions and hardware configuration problems is just a phone call away.

HP HelpLine, our per-call service, provides you with fast response time; (your call will be returned within two hours); technical support by a representative specializing in your specific application area; and expanded hours of telephone assistance (7 a.m.–9 p.m. Monday through Friday Eastern Standard Time).

A prepaid HP HelpLine Call Certificate entitles you to one HP HelpLine call at a cost savings. A "call" consists of an in-depth discussion of a single topic and related information with an HP support specialist. Whether your question or problem takes five or 30 minutes to answer or resolve, you will not incur additional charges for additional time. If the solution you are given does not work, you can call HP HelpLine back at no extra charge. HP HelpLine Call Certificates are sold in packs of five certificates. Valid for a minimum of one year after purchase.

35159A HelpLine Call Certificates
(1 pack) ..... $220.00 ea.
(2–3 packs) ..... 210.00 ea.
(4 and more packs) ..... 200.00 ea.

On-the-road telecommunications capability

A portable modular jack, the Black Jack™ ensures superior telecommunications capability over ordinary telephone lines while you're on the road. Especially handy in hotels and offices that lack modular jacks, this direct-connect device for either the PORTABLE or The Portable PLUS, transmits at 0–1200 baud flawlessly. Unlike acoustic couplers, it prevents distortion of your data transmission by environmental noise. The Black Jack™ can be used with any telephone with a removable mouthpiece.

92284F Black Jack™ ..... $49.95 ea.

HP Vectra 1200 baud internal modem

Plug the internal 1200 baud modem into a slot in your HP Vectra PC. Then connect this space-saving modem to a telephone line, load your communications software and your PC is ready to talk with the rest of the world.

The modem is programmable, using the industry standard "AT" command set and is fully compatible with the Bell 212A standard at 1200 and 300 bps. It runs practically all communications software or integrated packages with communications capabilities. Included with your modem is industry standard software (CROSSTALK XVI™) with easy-to-understand instruction screens and update commands.

Features
- Auto-dial
- Auto-answer
- Auto-speed selection
- Software has built-in help functions, status indications and error messages

24550A internal 1200 baud modem ..... $549.00 ea.

Touchscreen (HP 150) 1200 baud internal modem

Powerful telecommunications capabilities are yours when you add the 1200 baud internal modem to your Touchscreen or Touchscreen II. Installed in one of your PC's expansion slots, this space-saving modem allows you to connect to on-line information services and transfer data between Touchscreens, mainframes and other personal computers. Fully compatible with the Bell 212A standard, this modem runs with practically all communications software. It comes with all necessary cables and documentation.

Features
- Auto-dial
- Auto-answer
- Auto-speed selection
- Selectable tone or pulse dialing

45640A Internal modem ..... $475.00 ea.

Speed data on its way with 9600 baud modem

92205H MICOM® 9600 bps synchronous modem is the ideal choice to use in applications requiring fast synchronous data transmission.

The 92205H can operate in multipoint or point-to-point configurations at full speed over unconditioned leased telephone lines. Two-wire, half-duplex and four-wire, full- or half-duplex modes are supported. The 92205H has a powerful adaptive equalizer that enables it to tolerate changing line conditions, ensuring 9600 bps operation under conditions that would cause many other modems to fail. The 92205H can also fall back to 7200 bps and 4800 bps.

Simple installation

The 92205H is user-installable and only requires that you set the configuration switches, plug in cables, and turn on the power.

Troubleshooting is a "do-it-yourself" matter. From the host site, the user can initiate remote loopbacks. Integral testing capabilities include both analog and digital loopbacks, plus a pattern generator for use with loopback tests. Front panel indicators also provide status of the modem.

92205H
(1–2 units) ..... $2,450.00 ea.
(3–4) ..... 2,425.00 ea.
(5+) ..... 2,400.00 ea.

It's easy to order: 800-538-8787

Save money, time and space!

Use the chart below to find out how you can get the most from your personal computer for less money by sharing peripherals, or, by using peripherals that speed up your data transmission.

	92205T RS232C Dual ABC switch. Page 24	92178S RS232C ABC switch. Page 24	92205Y HP-IB ABC switch. Page 24	92205V Microspooler™ 64.* See below	92205W Microspooler™ 128.* See below.
No. of users	Up to 6	Up to 3	Up to 3	1	1
Peripheral types	Printers Plotters Modems	Printers Plotters Modems	Printers Plotters	Printers	Printers
No. of peripherals	Up to 6	Up to 3	Up to 8	1	1
Peripheral sharing	Yes	Yes	Yes	No	No
Port expansion	Yes	Yes	No	No	No
Buffer size	None	None	None	64K-bytes	128K-bytes
Interface	RS232C	RS232C	HP-IB	RS232C	RS232C

*Available in U.S. only.

No more waiting while you're printing

You can save time and increase your productivity. With the MicroSpooler™ 64 and the MicroSpooler™ 128, you can print without having to wait. Each MicroSpooler™ accepts data from your computer at up to 5800 characters per second and stores it until your printer is ready. It then relays the data at the fastest pace the printer will accept, which means while the MicroSpooler™ is sending your data to a printer, you can start on the next job.

Applications With 64K bytes of buffer memory, MicroSpooler™ 64 is perfect for correspondence and short text tasks. MicroSpooler™ 128 has 128K bytes of buffer memory and is ideal for transmission of more complex and advanced documents as well as scientific and business processing applications.

Features Easy-to-operate controls allow user to interrupt and resume operations or clear the buffer memory. Internal switches let user set, and then forget, baud rates, protocols and handshaking parameters.

Easy-to-understand digital readout continually updates and displays the amount of memory in use and indicates system status. (One initial command allows user to print or transmit up to 256 duplicate copies.)**

Easy to install using existing standard printer cable and a 31391A (RS232C 25-pin end-to-end) cable.

Both MicroSpoolers™ are compatible with RS232C printers and are fully supported by the manufacturer, Consolink® Corp. Available in the U.S. only.

92205V MicroSpooler™ 64 . . . $395.00 ea.
92205W MicroSpooler™ 128 . . . . 495.00 ea.
31391A RS232C cable . . . . . 70.00 ea.

Printing

Without MicroSpooler™ 21 minutes
(CPU time for 20 pgs.; 80 CPS Bidirectional)

With MicroSpooler™ 8 seconds*
(CPU time for 20 pgs.; 80 CPS Bidirectional)

**If the length of your document exceeds your Microspoolers' memory capacity, additional CPU time will be required to print and only the last portion can be duplicated.

Free surface delivery!

Call us with your Purchase Orders or

VISA MasterCard

Power conditioners–Insurance for HP computer systems

Modern MIS managers use power conditioning to get the most out of their computer systems every day. They know that power problems create computer problems:

- Disc errors
- Lost data
- Garbled printouts
- Overheating of internal power supplies

Why should you wait until problems like these occur?

Dirty power Electrical noise, sags, and surges are the most common electrical disturbances your system encounters. Noise can be created by electric motors inside your building, such as copy machines, or by outside forces like lightning. Start-up of heavy equipment, like a hard disc drive, requires start-up currents well in excess of normal operating levels. And in some locales, brownouts or power reductions have become a fact of life.

What can you do?

Cleaning up and regulating the power that drives computer systems is the job of power conditioners. HP engineers have matched the power requirements of HP systems with a set of tough performance standards for power conditioners. The result is a family of products that will help you get optimum reliability and performance from your system.

HP offers three types of power conditioning devices. Use the table at the right to determine what power conditioner is best for you.

Power conditioning comparison guide

Major types of power disturbances	Common power-line problems	Recommended solutions: Surge Suppressor	Small Isolation/ Regulators	Large Isolation/ Regulators
Electrical noise	High-voltage transients caused by lightning	√	√	√
	Spikes caused by utility network switching	√	√	√
	Ringing disturbances caused by power-factor correction capacitor switching by the utility		√	√
	Transients caused by the operation of electrical devices such as machine tools, air conditioners, lighting systems and office equipment	√	√	√
Voltage fluctuations	Brownouts		√	√
	Undervoltages and overvoltages caused by power-line faults and fault clearing devices		√	√
	Voltage fluctuations caused by start-up of heavy equipment such as elevators		√	√
	Chronic low voltage due to overburdened distribution networks		√	√
	Voltage fluctuations caused by user-owned generators		√	√
Other types of power problems	Ground not dedicated or isolated		√	√
	Shock hazard		√	√

Features			
Regulation and Isolation		√	√
Output voltage	120V	120V	120V/240V
Number of different receptacles offered	1	2	4
Number of different output receptacle configurations	3	2	14
kVA Range		1–2	3–10
Regulation/Isolation Switch			√
Regulator Range Indicator			√
Fuse Indicator			√

It's easy to order: 800-538-8787

Which power conditioner is right for your HP computer system?

Power conditioner/HP computer system compatibility

Use the guide below to choose the power conditioner best suited to protect your HP computer system. The darkest shading indicates optimum compatibility.

HP computer system	Surge Suppressor	Small Isolation/ Regulator	Large Isolation/ Regulator
HP 3000			
Series 58			
Series 40			
Series 44			
Series 42			
Series 39			
Series 37			
HP 1000			
HP 9000			
HP Vectra			
HP Touchscreen (150)			

Note: The correct power line conditioner for your computer system also depends on what peripherals are configured in your system.

How to calculate what kVA size power conditioner your computer system needs

1. Read the MAXIMUM CURRENT RATING on the back label of each component in your system.
2. Multiply the MAXIMUM CURRENT by the VOLTAGE being used (i.e. 120 volts or 240 volts). Divide by 1000 to get kVA size of each component.
3. Add the kVA calculations of each component to get a total system kVA.
4. Select an HP power conditioner with a rating larger than the system kVA rating.

Example:

HP Equipment	On label	Conversion	kVA
Computer	3A	3A × 120V* = 360VA	0.36
Disc Drive	2A	2A × 120V* = 240VA	0.24
Printer	2A	2A × 120V* = 240VA	0.24
		Total kVA	0.84

*These are 120V, 60 Hz single phase units.

In this case, a 1 kVA-unit best fits your current needs. If you have plans to expand your system by either adding peripherals or changing CPUs, a 2 kVA-power conditioner will allow for that expansion.

Specifications

The following specifications are the minimum requirements that line conditioning devices must meet to be recommended for use with Hewlett-Packard computer systems.

Forward transfer impedance (at 1 kHZ)
Nominal input–120 VAC
Transfer impedance (ohms)–5.3 ÷ kVA rating
Nominal input – 208 VAC
Transfer impedance (ohms) – 16.0 ÷ kVA rating

Output impedance
5 ohms from 5 kHZ to 1 MHZ

Inrush current
1000% of nominal for one-half cycle

Surge current rating
300% of nominal for one second

Static voltage response (regulating devices only)
Load power factor—
Device operates over power factor range of 0.7 lag to 0.7 lead

Input range: Nominal input	Actual input	Output range: Nominal output	Actual output
120V	94 to 135V	208V	191 to 216V
208V	162 to 233V		

Static voltage response (isolation transformers only)
Input/output voltage response—
Output voltage tracks input voltage to ± 2%

Noise
Device cannot add more than 2% to the source or load at full resistive load

Ground to neutral bond
Transformer-based devices must have the neutral and ground bonded together at the secondary.

Noise rejection
Devices are tested using the IEEE 587A-80 waveform. The device is resistive loaded from 75% up to the maximum rating of the device. Specifications to be met are:

Pulse applied at input	Peak voltage at output
Normal mode L-N	< 20 V Normal mode L-N < 0.5 V Common mode N-G
Common mode L, N-G, L-G, N-G	< 20 V Normal mode L-N < 0.5 V Common mode N-G

50 ohm RF Attenuation
> 30 db attenuation of conducted EMI from 30 kHZ to 30 MHZ

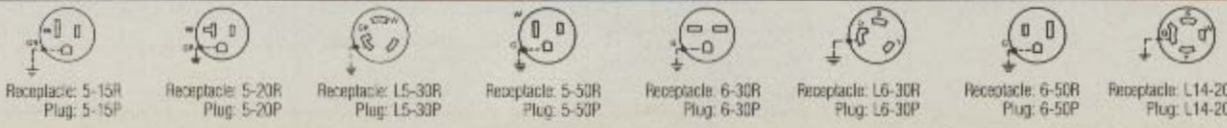
Line reduction response time (regulating devices only)
Regulate input voltage changes to required output within one cycle

Recovery response time
Output will stabilize within 1.25 cycles from a one cycle input dropout

Efficiency
Device is greater than 90% efficient at full resistive load

Operating frequency
60Hz – 57 to 63Hz Range

Operating temperature
Operates from 0–50 C



Receptacle: 5-15R
Plug: 5-15P

Receptacle: 5-20R
Plug: 5-20P

Receptacle: L5-30R
Plug: L5-30P

Receptacle: 5-50R
Plug: 5-50P

Receptacle: 6-30R
Plug: 6-30P

Receptacle: L6-30R
Plug: L6-30P

Receptacle: 6-50R
Plug: 6-50P

Receptacle: L14-20R
Plug: L14-20P

Large Isolation/Regulators–
For maximum computer system protection

If your computer installation includes a hard disc, is exposed to brownouts, or competes with heavy electrical equipment for power, an HP Isolation/Regulator may be the solution.

HP Isolation/Regulators are made up of two distinct parts—an Isolation Transformer and a regulating mechanism. The Isolation Transformer eliminates noise on the line while the Regulator ensures that, as input voltage varies within broad limits, your computer system sees a constant power level.

HP's Large Isolation/Regulators feature an isolation/regulator switch so you have backup protection in case of regulation problems. Other features include output voltage of 120V or 240V, 14 different configurations of output receptacles, regulation range and fuse indicators.

For more details, see the technical specifications on opposite page. For further assistance, please consult your local HP service engineer. These units are UL approved and are backed with a 90-day warranty.**

Large Isolation/Regulators (shipped within six days)

Product no.	Input voltage	Output voltage	kVA	Dimensions (inches)	Shipping weight	Input connector*	Output receptacles	Price
92277A	120V	120/240V	3	12W × 16D × 20H	91 lb.	5-50P	L14-20, 8(5-20R2)	$3880.00 ea.
92277B	208V	120/240V	3	12W × 16D × 20H	91 lb.	5-50P	L14-20, 1(6-30), 6(5-20R2)	$3880.00 ea.
92277C	208V	120/240V	5	12W × 16D × 20H	121 lb.	6-50P	L14-20, 1(6-30), 6(5-20R2)	$4375.00 ea.
92277D	208V	120/240V	5	12W × 16D × 20H	121 lb.	6-50P	L14-20, 3(6-30), 2(5-20R2)	$4375.00 ea.
92277E	208V	120/240V	5	12W × 16D × 20H	121 lb.	6-50P	L6-30, 1(6-30), 5(5-20R2)	$4375.00 ea.
92277F	208V	120/240V	5	12W × 16D × 20H	121 lb.	6-50P	L6-30, 2(6-30), 3(5-20R2)	$4375.00 ea.
92277G	208V	120/240V	8	12W × 16D × 20H	137 lb.	APPLETON ADR 6023BC	L14-20, 1(6-30), 6(5-20R2)	$4755.00 ea.
92277H	208V	120/240V	8	12W × 16D × 20H	137 lb.		L6-30, 1(6-30), 5(5-20R2)	$4755.00 ea.
92277J	208V	120/240V	8	12W × 16D × 20H	137 lb.		L6-30, 3(6-30), 1(5-20R2)	$4755.00 ea.
92277K	208V	120/240V	8	12W × 16D × 20H	137 lb.		4(6-30), 1(5-20R2)	$4755.00 ea.
92277L	208V	120/240V	10	12W × 16D × 20H	161 lb.	APPLETON ADR 1023CD	L6-30, 1(6-30), 5(5-20R2)	$5285.00 ea.
92277M	208V	120/240V	10	12W × 16D × 20H	161 lb.		L6-30, 2(6-30), 3(5-20R2)	$5285.00 ea.
92277N	208V	120/240V	10	12W × 16D × 20H	161 lb.		L6-30, 3(6-30), 1(5-20R2)	$5285.00 ea.
92277P	208V	120/240V	10	12W × 16D × 20H	161 lb.		4(6-30), 1(5-20R2)	$5285.00 ea.

*Receptacle provided with unit for customer installation. (Voltage regulators only.)

**Not approved for use in Canada.

Small Isolation/Regulators–
For protection of small computer systems

Use HP's small Isolation/Regulators to protect your small computer system from electrical noise transients and voltage fluctuations. These small Isolation/Regulators:

- comply with the IEEE 587A-1980 standard
- are UL and CSA-approved
- are backed with a one-year warranty.

Small Isolation/Regulators

Product Number	Input Voltage	Output Voltage	kVA	Dimensions Inches (mm)	Shipping Weight	Output Receptacles	Price
92164A	120v	120v	1	7W × 14D × 6H (178 × 356 × 152)	38 lbs.	5–20R2	$839.00 ea.
92164B	120v	120v	2	10W × 19D × 10H (254 × 483 × 254)	96 lbs.	L5–20R, 2(5–20R2)	$1399.00 ea.

It's easy to order: 800-538-8787

Surge Suppressors–Protection for personal computers and peripherals

Use HP's Surge Suppressors to protect your personal computer and peripherals against electrical surges/transients. HP Surge Suppressors also have EMI/RFI noise filtering. These units feature three-stage circuitry to detect and dissipate dangerous electrical surges on your power line. All HP Surge Suppressors comply with IEEE 587-1980 standards and are UL and CSA-approved. Find out how to determine what power conditoner to use with your computer system on page 134.

Surge Protection Specifications

Applicable line voltage: $120V_{RMS}$ nominal, 170 VP nominal (240_{RMS} nominal, 339 VP nominal for 220 volt models)
Temperature: −25 to +75°C operating; −50 to +100°C storage
Operating humidity: less than 95% noncondensing
Standby current: less than 1 milliamp
Failure mode (95%): open circuit

Characteristics	Stage 1	Stage 2	Stage 3
Component clamping response (seconds)	5×10^{-12} (5 psec)	5×10^{-9} (5 nsec)	1×10^{-6} (1 usec)
Power dissipation in 100 microseconds (watts)	4,500	500,000	1,000,000
Rated energy absorption (joules)	1.5	55	100
Clamping level (volts peak) 120 V	200 ± 5%	200 ± 10%	230 ± 15%
Dynamic impedance (Ω) 120 V	10	less than 1	10

Protection mode: Transverse and Common (3-stage models)
RFI & EMI noise protection filtration
Noise attenuation range: −5 dB to −40 dB
Frequency: 100 kHz to 30 MHz

Surge Suppressors

Product Number	Description	Number of 5-15R Receptacles	Dimensions Inches (mm)	(1 unit)	Price (2–4 units)	(5+ units)
92165A	Surge Suppressor	2	2W × 4.5D × 2H (51 × 114 × 51)	$69.00 ea.	$64.00 ea.	$59.00 ea.
92165B	Surge Suppressor	4	5W × 7D × 2H (127 × 179 × 51)	$89.00 ea.	$84.00 ea.	$79.00 ea.
92165C	Surge Suppressor	6	5W × 7D × 2H (127 × 179 × 51)	$99.00 ea.	$94.00 ea.	$89.00 ea.

Organize power cords for convenience and safety

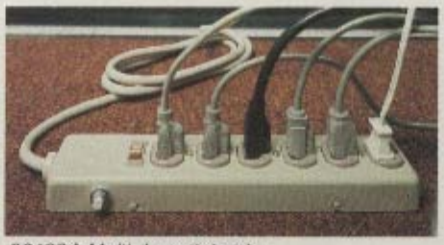
For your convenience, HP now offers two U.S. power strips. Both cases are made of seamless steel with a baked-on finish for durability.

Mounting hardware is provided with both, and each features a 6-foot (1.8m) power cord with molded U.S. connector.

Electrical rating: 15A, 125 VAC, 60 Hz, 1875 W. continuous duty.

Price	92199A*	92199B
(1–4)	$35.00 ea.	$36.00 ea.
(5–9)	32.00 ea.	33.00 ea.
(10+)	30.00 ea.	31.00 ea.

*Not approved for use in Canada.



92199A Multiple outlet strip

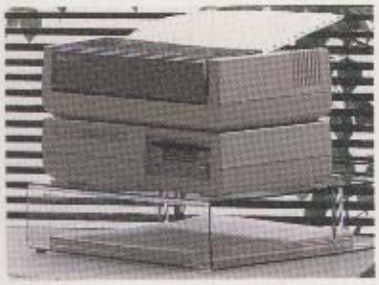
92199B Multiple outlet strip

Multiple outlet strip comparison

	92199A*	92199B
Suggested use	Office/Home	92211R or other system rack
Electrical approval	UL	UL/CSA
Master switch	Yes	No
Color	Beige	HP Pearl Gray
Length	12 in. (305 mm)	8.75 in. (222 mm)
Width	2.5 in. (64 mm)	2 in. (61 mm)
Height	1 in. (25 mm)	1.5 in. (38 mm)

PRODUCTIVITY PARTNERS

NOISE FIGHTERS



HP ThinkJet, QuietJet and ***QuietJet Plus Printers***—the powerful, peaceful printers. As they print, you can think, talk on the phone or hold a meeting. Choose the one that's best for you on *page 11*.

Sound enclosures—they muffle the noise of your plotter or 293x dot matrix printer, so neither one will distract you or your co-workers. See our Plotter Sound Enclosure on *page VII*, and Printer Sound Enclosure on *page 89*.

SPACE SAVERS

Space—you never can have enough of it. Picture this: Your PC on a ***keyboard park*** *(page 92)* and keyboard underneath; your ThinkJet, QuietJet or QuietJet Plus Printer on an ***acrylic stand*** *(page 13)* and printer paper *(page 15)* underneath; your plotter on, and plotting supplies in, a ***graphics organizer*** *(page 38)*; and your floppy discs filed in a ***storage unit*** *(page 61)*. Result: No clutter and lots of work surface. Or, for maximum desktop space, place your PC equipment and supplies in our space-efficient and spacious ***Mobile PC Centre*** *(page 84)* or our stackable, modular ***Micro-Manager™*** system *(page 82)*.

COST CUTTERS

Save 33–55% on our ***LaserJet cartridge fonts;*** 20–50% on our ***drafting media;*** 9–26% on ***HP 3.5-inch*** and ***5.25-inch discs!*** Now's your chance to stock up on the supplies you most commonly use. Turn to *pages 5–7, 30–31, and 59*.

For other discounted products throughout the catalog, look for *Reduced-Price!*

Why pay for two or more if one is good for all? Share a printer, plotter or modem and reduce your expenses. You'll get the most out of one product and what you paid for it. Sharing is as easy as a flick of a switch. How? See our ***ABC switches,*** *page 24*.

EQUIPMENT PROTECTORS

Take precautions now and avoid unforeseen disasters later. At the office: ***Dust covers*** *(page 94)* on your idle terminal, PC, disc drive, plotter and printer help prevent dirt, liquids and even static from affecting equipment performance.

Power line conditioners *(pages 134–136)* insure your computer equipment is protected against electrical disturbances.

On the road: Transport your PC and peripherals in our thickly-padded ***carrying cases*** *(page 95)*. They'll be safe and you won't be sorry!

We ship within 24 hours

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A winning combination–

the LaserJet Series II printer and the LaserJet printer cabinet

The second generation LaserJet has just arrived! It's even friendlier, smaller and more flexible than the original, yet LOWER-PRICED. So there's never been a better time to buy the world's best-selling desktop laser printer. It's available through your local HP dealer or HP sales representative.

And here's the perfect storage cabinet–for any desktop LaserJet.

HP engineers designed the mobile LaserJet Printer Cabinet specifically for laser printing supplies. It's easy to move, strong and good-looking, but, most of all, it's practical. With details like these:

- Sturdy shelf slides out on the right or left side to add handy work space.
- Precut foam inserts and adjustable dividers neatly organize top drawer space for fonts and manuals.
- Spacious lower cupboard with deep shelf provides storage for a generous supply of paper, trays and toner cartridges.

Turn to page II of the New Product section in the front of the catalog for additional details about the 92211B LaserJet Printer Cabinet.

Lower the lid on plotter NOISE!

HP's new Plotter Sound Enclosure soaks up sound to bring peace and productivity to your busy office. Designed for HP 7470, 7475 and 7440 plotters, it's lined with sound-suppressing particleboard and ½" thick high-density foam to reduce plotter noise and vibration up to 90 percent. And space is provided beneath the plotter to slip in a Graphics Organizer (HP 92177W/X) for storage of carousels, paper, film, pens and other supplies.

Refer to page 89 for more details on the 92166E Plotter Sound Enclosure.

Printed in U.S.A.
5/87 5953-2450D

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