

HEWLETT  
PACKARD

Be sure to see  
**PERSONAL  
COMPUTER  
NEWS**  
following page 33

# COMPUTER USERS CATALOG

Autumn-Winter 82/83

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# **HP Computer Museum**

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

**For research and education purposes only.**





## It's easy to order from HP

Special fast-order direct phone lines for computer supplies are now available in many countries—including the ones listed below—offering on-line price and availability information, as well as fast order entry:

UNITED STATES ..... **800-538-8787**  
 California ..... **408-738-4133**  
 UNITED KINGDOM ..... **0734-792868**  
    **0734-792959**

WEST GERMANY ..... **07031-667829**  
    **07031-223133**  
 THE NETHERLANDS ..... **020-470639**

Of course, orders may be placed in the regular way through local HP sales offices in those areas not yet served by these special phone lines.

## Quality products when you need them, off-the-shelf

Hewlett-Packard maintains an extensive inventory of media and operating supplies in many locations,

so that we can responsively handle your order when we receive it.





## It's easy to order HP quality-tested supplies

Yes, this HP Computer Users Catalog makes it easy for you to select and order quality-tested HP supplies and accessories of all types — including more than 190 new products on the following pages.

### Optimize your HP equipment performance

You have come to expect excellent performance and dependable service from HP computer equipment. Our high-quality, off-the-shelf companion products — magnetic media, operating supplies, workstation furniture and more — designed and tested to ensure they bring out the best performance in your HP computer equipment.

Supplies ordered from this catalog meet or surpass stringent compatibility requirements for use with HP equipment. You can expect longer, trouble-free equipment life when using HP-tested (often, HP manufactured) media and supplies.



### What's new in this catalog?



There are more than 190 new products appearing for the first time in the HP Computer Users Catalog. Be sure to look for

this symbol, which identifies each of those new products — including (for example) our new ergonomic chairs on page 38.

### Inexpensive add-on hardware

You can frequently extend computer or personal productivity by adding a printer, plotter or other low-cost hardware item to your HP computer system. We have listed several such

HP add-on hardware products at the rear of this catalog, for your reference. Please contact your regular HP sales representative to place an order for these items.

### Indexes

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## **Your high performance HP equipment deserves HP high performance magnetic media.**

You know that the up-time of your equipment directly generates savings through increased productivity. The reliability of HP Magnetic Media lets you cash in on these savings. Our products also minimize the wear of both media and read/write heads, which means less maintenance and lower service costs.

Tests on HP drives show significant differences between media in terms of wear and data integrity. Only media meeting very high specifications are approved for our customer shipments. With HP products, you can feel confident that you will obtain consistent, high-quality results and an increase in overall performance.

HP engineers spend many person-months designing and selecting the optimum (not just "compatible") media for their drives. Many vendors offer media "compatible" with some of HP's tape or disc drives; however, media from HP has been designed, produced and/or selected based on its superior performance characteristics on HP drives.

### **Drive/Media Warranty**

Any damage sustained to the heads or media, or any consequential damage resulting from the use of non-HP media or cleaned media 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 media, however, does not affect warranty or service contract coverage of other components of the drive not associated with the head-media interface.





## Our rigid discs are 100% tested, formatted and ready for immediate use.

Hewlett-Packard designs and manufactures disc drives offering exceptional performance and reliability over a wide range of environments. Using proper disc media is essential for the successful and optimum operation of these drives.

Every HP rigid disc pack and cartridge is 100% tested and certified for use on HP drives (see story page 4 on how HP makes and 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 or service contract.

### Additional media recommended for system startup

SYSTEM	FLEX DISC DRIVE		SYSTEM CONSOLE 264X	SYSTEM DISC DRIVE			TAPE DRIVE	
				7906H/M	7908/11/12P	7920M	7925M	7970E 7976A
Series 80	If 5 1/4" Opt. 10 flex discs (box 92190A)	If 8" Opt. 10 flex discs (box 92195A)						
125	If 5 1/4" Opt. 10 flex discs (box 92190A)	If 8" Opt. 10 flex discs (box 92195A)						
250	10 flex discs (box 92195A)	or 10 formatted (box 92195F)		1 cartridge (12940A)				
1000-L/5	10-20 flex discs (1-2 boxes 92190A)							
1000-L/10	10-20 flex discs (1-2 boxes 92195A)		10 mini- cartridges (2 boxes 98200A)	1 cartridge (12940A)				
1000/40			10 mini- cartridges (2 boxes 98200A)	1 cartridge (12940A)		1 pack (13394A)	1 pack (13356A)	
1000/45			10 mini- cartridges (2 boxes 98200A)	1 cartridge (12940A)		1 pack (13394A)	1 pack (13356A)	
1000/60			10 mini- cartridges (2 boxes 98200A)	1 cartridge (12940A)	5 high density data cartridges (1 box 88140L/S)	1 pack (13394A)	1 pack (13356A)	
1000/65			10 mini- cartridges (2 boxes 98200A)	1 cartridge (12940A)	5 high density data cartridges (1 box 88140L/S)	1 pack (13394A)	1 pack (13356A)	
3000/III			10 mini- cartridges (2 boxes 98200A)			1 pack (13394A)	1 pack (13356A)	10 reels 2400' (1 box 92150F)
3000/30	10 flex discs (box 92195A)		10 mini- cartridges (2 boxes 98200A)	1 cartridge (12940A)		1 pack (13394A)	1 pack (13356A)	10 reels 2400' (1 box 92150F)
3000/33	10 flex discs (box 92195A)		10 mini- cartridges (2 boxes 98200A)	1 cartridge (12940A)		1 pack (13394A)	1 pack (13356A)	10 reels 2400' (1 box 92150F)
3000/40	If Opt. 010 10 flex discs (1 box 92195A)		10 mini- cartridges (2 boxes 98200A)		5 high density data cartridges (1 box 88140L/S)	1 pack (13356A)	1 pack (13356A)	10 reels 2400' (1 box 92150F)
3000/44	10 flex discs (box 92195A)		10 mini- cartridges (2 boxes 98200A)	1 cartridge (12940A)		1 pack (13394A)	1 pack (13356A)	10 reels 2400' (1 box 92150F)
3000/64	If Opt. 010 10 flex discs (1 box 92195A)		10 mini- cartridges (2 boxes 98200A)		5 high density data cartridges (1 box 88140L/S)	1 pack (13394A)	1 pack (13356A)	10 reels 2400' (1 box 92150F)



## Rigid discs and accessories



### The 10 steps to quality in HP-made packs

1. Visually inspect raw disc platters.
2. Mechanically analyze for disc flatness and roughness.
3. Electronically evaluate magnetic properties.
4. Assemble into multi-disc packs (see photo).
5. Dynamically balance for vibration-free rotation.
6. Mechanically analyze, a second time, for disc flatness and roughness.
7. Burnish disc surfaces.
8. Magnetically purify (degauss) all surfaces.
9. Write permanent servo code bands on one disc in the pack.
10. Fully test each pack on a drive similar to yours under "worst case" conditions.

### Rigid disc cartridge, 2.5 Mb

#### 12869A Formatted disc cartridge.

Front loading. For HP 7900A, 7901A, 9880B, 12960A, 12961A, 30110A Disc Drives and Subsystems.



### Rigid disc cartridge, 9.8 Mb

#### 12940A Formatted disc cartridge.

Front loading. For HP 7905A, 7906H/M/S, 12962C/D, 13180A/B Disc Drives and Subsystems.



**92206D Rigid disc rack.** Keep your cartridges right where you want them. Our mobile 9-disc capacity 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.

- Easy to attach and remove.
- Built-in latch keeps cartridge access door closed when not on drive.
- Positive, safe horizontal stacking of up to six (6) cartridges.
- Light-weight – approximately 0.9 lbs. (0.4 kg)
- Made of heavy duty, high impact plastic.
- Three sturdy positive action clips keep 92206H in contact with cartridge bottom preventing contamination build up.

### Rigid disc pack, 50 Mb

**13394A Formatted disc pack.** For HP 7920H/M/S Disc Drives.



### Rigid disc pack, 120 Mb

**13356A Formatted disc pack.** For HP 7925H/M/S Disc Drives.



92206D Rigid disc rack



92206H Cartridge cover

### Protective bottom cover for disc cartridges

**92206H Box of 6 bottom covers** for the HP 12940A and HP 12869A disc cartridges. Protects cartridge from damage caused by operator mishandling and minimizes contamination of disc surfaces. (Please note that the HP 92206D rack will not hold HP disc cartridges with 92206H Bottom Covers).



## Flexible discs and accessories

Hewlett-Packard's premium quality flexible discs optimize performance of HP drives.

### Flexible discs, 0.25 Mb

#### 92190A Box of ten 5.25 inch

#### double-sided discs. Unfor-

matted, in protective envelopes. Includes write-protect, jacket and storage box labels. For use with HP 82900 series Disc Drives, 9135A Disc Drive, HP 2642A Display Terminal and HP 9826/36 Desktop Computers.



#### **NEW** 92190L FlexFile package of fifty 5.25 inch double-sided discs.

SAVE! Unformatted discs, supplied in five handy FlexFile storage units, each holding ten discs (total 50 discs). Money-saving way to get HP FlexFiles, described on page 6, when you buy quality HP discs. Interlocking FlexFile design, so you can easily arrange them vertically or horizontally to suit your needs. Index labels and instructions included.

### Flexible discs, 1.2 Mb

#### 92195A Box of ten 8 inch

#### double-sided discs.

Unformatted, in protective envelopes. Includes write-protect, jacket and storage box labels. For use with HP 250, 300, 3000/30, 3000/33 Systems and HP 9895A Disc Drives.



#### **NEW** 92195L FlexFile package of fifty 8 inch double-sided discs. SAVE!

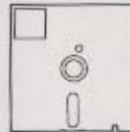
Unformatted discs, supplied in five handy FlexFile storage units, each holding ten discs (total 50 discs). Money-saving way to get HP FlexFiles, described on page 6, when you buy quality HP discs. Interlocking FlexFile design, so you can easily arrange them vertically or horizontally to suit your needs. Index labels and instructions included.

**92195F Box of ten 8 inch double-sided discs, HP 250 formatted.** Already formatted for use on your HP 250 system. Can save approximately 10 minutes of formatting/initializing time per disc. Use only on HP 250 systems.

### Flexible discs, 0.5 Mb

#### 9164-0105 Box of ten 8 inch single-sided discs.

Unformatted, in protective envelopes. Includes write-protect, jacket and storage box labels. For HP 1000 models 20 & 25 (2174A/B & 2175A/B), 9896A Systems; 12732A & 12733A Subsystems; 9885M/S Disc Drive.



**09885-90045 One 8 inch single-sided disc, HP 9885/9825 formatted.** Required for 9885M/S Drives used with 9825A/S Desktop Computers, before the 9164-0105 unformatted discs can be used.

### Flexible disc drive head cleaning kits

HP recommends preventive cleaning of HP flexible disc drive heads when there is suspicion of contamination, after an incidence of media damage or when read errors are occurring at a higher than normal rate. HP's convenient cleaning kits provide you:

- 2 – cleaning discs
- 1 – 4 ounce bottle of cleaning solution
- 1 – easy-pour dispensing cap
- Instruction for running cleaning programs for various system/drive configurations



92190L FlexFile pack



92193A/B Cleaning kits

**92193A Head cleaning kits** for 5.25 inch flexible disc drives.

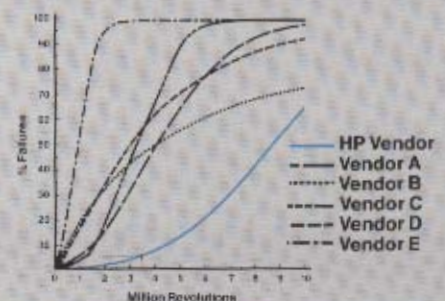
**92193B Head cleaning kit** for 8 inch flexible disc drives.

See cleaning supplies on pages 27 and 28.

### HP flexible discs do 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 and error rate, and the disc manufacturer's ability to consistently meet our specifications without batch-to-batch variations.

### Wear Life







Left to right: 1. 92194P Flex disc hanging file pages; 2. 92194A Flex disc album file; 3. 92194J Flex disc easel binder; 4. 92194G Flex disc portable album file; 5. 92194E FlexFiles; 6. 92194R Flex disc mailer; 7. 92194Z Flex disc shipping case; 8. 92194T Flex disc attache carrying case.

### Desktop file for flexible discs

Designed to provide protection, organization and easy retrieval of invaluable data and programs. This attractive, durable, smoke-colored acrylic file holds up to 60 discs. Aiding the organization and retrieval of discs are five index dividers with adjustable tabs.

**92194A Desktop file** for 5.25 inch flexible discs.

**92194B Desktop file** for 8 inch flexible discs.

### FlexFile storage system for flexible discs

The HP FlexFile provides you with the most "flexible" disc storage system! Its modular interlocking design allows you to add new units as your needs expand and makes the most of your work space. Individually or in stacks, they can be used vertically or horizontally by simply readjusting the inside disc retaining gate. Open the FlexFile drawer and the discs are automatically flipped forward for easy access. The FlexFile offers sturdy, portable, dust-free protection and takes only seconds to interlock or separate. Constructed of high impact polystyrene.

**NEW 92194E FlexFiles** for 5.25 inch flexible discs. A package of five FlexFiles. Each FlexFile holds up to ten discs. Includes adhesive index labels and instructions.

**NEW 92194F FlexFiles** for 8 inch flexible discs. A package of five FlexFiles. Each FlexFile holds up to ten discs. Includes adhesive index labels and instructions.

### Portable album file for flexible discs

Fragile flexible discs will be protected, organized and easily accessed because of several unique features of this filing system. 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. Capacity—20 discs.

**92194G Album file** for 5.25 inch discs.

**92194H Album file** for 8 inch discs.

### Binder storage for flexible discs

3-Hole, 1.5 inch easel binder kit with 20 pebbled, static-resistant vinyl pages for safe, convenient and economical filing of flexible discs with supporting documentation. File cards are included to help identify each disc. The easel binder provides efficient access and replacement of the discs at the user's work station.

**92194J Easel binder kit** for 5.25 inch discs. Capacity 40 discs.

**92194K Easel binder kit** for 8 inch discs. Capacity 40 discs.

### 3-ring binder pages for flexible discs

A package of 20 pebbled, static-resistant vinyl pages for filing flexible discs. File cards are included to help identify each disc.

**92194L Package of 20 pages** for 5.25 inch discs. Capacity 40 discs.

**92194M Package of 20 pages** for 8 inch discs. Capacity 40 discs.



### Hanging file pages for flexible discs.

Protect and organize your valuable discs by filing them on any 12.25 in. (311 mm) wide suspension frame. These heavy-duty pages are made of pebbled, static-resistant vinyl. File cards are included to help identify each disc.

**92194P Package of 20 hanging file pages** for 5.25 inch flexible discs. Capacity 40 discs.

**92194Q Package of 20 hanging file pages** for 8 inch flexible discs. Capacity 20 discs.

### Flexible disc mailers

These mailers provide a stress-free journey for up to five discs mailed in envelopes or carried in a briefcase. The heavy duty vinyl construction gives a clean, sturdy and reuseable technique for distributing pro-

grams and data on flexible discs. The velcro fastener is secure, eliminating any pressure on the discs during opening and closing.

**92194R Box of five mailers** for 5.25 inch flexible discs. Each mailer holds up to five discs.

**92194S Box of five mailers** for 8 inch flexible discs. Each mailer holds up to five discs.

### Attache carrying case for flexible discs

Convenient traveling storage for up to 75 discs and 1.5 in. of printed materials (8.5 x 16 in.: 216 x 406 mm). The heavy gauge vinyl coated board, quality construction and deluxe locks and handle ensure protection and security for your valuable data and software.

**92194T Attache carrying case** for 5.25 inch flexible discs.

**92194U Attache carrying case** for 8 inch flexible discs.

### Flexible disc shipping case

Feel secure in shipping your flexible discs! The safe and simple design protects your valuable media from the rigors of shipment. This molded plastic shipping case offers strong, lightweight protection for your flexible discs. Dual-size foam interior which holds up to ten of either size disc.

**NEW 92194Z Flexible disc shipping case** for 5.25 inch and 8 inch discs. Three write-on mailing cards are included.

## Tape cartridges and accessories

### Mini data cartridges

These rugged HP-manufactured storage devices are each 100% 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.



**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 used on non-HP products where reliable, high-performance minicartridges are desired. For larger end-user and OEM quantity discounts, contact us.



### Mini data cartridge storage

**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 mini data cartridges (HP 98200A).

### 92206A Mini data cartridge rack.

Mobile and Stackable! Chrome-finished steel racks are designed for fingertip accessibility of up to 16 cartridges or digital

### Better turn-on, longer life with HP mini data cartridge

Through HP's new improved manufacturing processes, our HP 98200A mini cartridge now offers better turn-on (start-up) performance and longer operating life - minimum 6000 cycles (a cycle is one round-trip 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 mini cartridges work best when "conditioned" before use (by making one total forward/rewind cycle), and by rewinding after each use.

cassettes. Racks are stackable for space saving convenience. Buy three and save.

**92167M Storage binder** holds 6 mini data cartridges inside front cover. The 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). (continued next page)





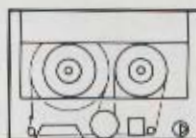
Left to right: 1. 92206A Mini data cartridge rack; 2. 92167M Mini data cartridge storage binder; 3. 92167N Mini data cartridge molded binder insert; 4. 92194D Mini data cartridge desktop file; 5. 92194C Digital cassette desktop file; 6. 92167L High density data cartridge album.

Documentation pertinent to the data and programs recorded on the cartridges can be organized in the standard 2 inch 3-ring mechanism and in a vinyl pocket inside back cover. Protection for the 3-hole documentation is provided by two sturdy page protectors. The outside of the binder is finished in padded bone-colored vinyl.

**92167N Molded binder insert.** Package of three inserts. Each insert holds six minicartridges (while in their plastic boxes) and can be held by the sturdy brass-ringed eyelets in a 3-ring binder (sizes 0.5 inch 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 3-ring binders. One or two inserts can be added to the storage binders increasing the storage capacity to 12-18.

### High density data cartridge

These formatted data cartridges are used for backup with the HP 7908/11/12 disc 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; requires user-initializing/certifying before use.



**88140L Box of five cartridges** (67Mb), each with own protective plastic box.

**88140S Box of five cartridges** (16Mb), each with own protective plastic box.

### High density data cartridge storage albums

Now you can organize and transport your HP 88140L/S cartridges in a dust-free

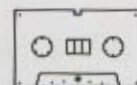
album that helps eliminate the mishandling and misplacing of individual cartridges. The albums are constructed of sturdy vinyl, hinged for easy access. Each album holds four cartridges; two in the molded front cover and two in the back cover inserts.

### **NEW** 92167L Package of five high-density data cartridge albums.

Each album holds up to four HP 88140L/S cartridges.

### Digital tape cassettes

**9162-0050 Individual digital cassette.** With HP label and index card, and sealed in a plastic storage box. Used with HP 9821A Calculator, 9830A/B Desktop Computer, 9865A Cassette Memory; also non-HP products requiring high-quality digital cassettes.



**9162-0053 Unlabeled individual digital cassette.** Identical to HP 9162-0050, but without HP label. For OEM and other customers who record their own software and prefer to apply their own labels.

### Desktop file for cassettes

**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.

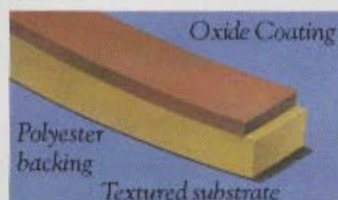
## Magnetic tape and accessories

### Premium magnetic tape

HP's 0.5 inch (12.7 mm) 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 or damaged 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 tex-



tured substrate backing resists scratching and the generation of debris. At the same

time, HP tape resists static attraction of airborne particles.

HP back-coated tape means:

#### Less

- Edge damage
- Contamination
- Distortion

#### Better

- Data integrity
- Protection of your information

Certified to 6250 BPI. Use on all HP 7970, 7971 and 7976 Tape Units and tape subsystems using 0.5 in. (12.7 mm) wide tape.





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**92150D** Box of ten 600 ft. (183 m) tapes on reels, in seals (Supersedes 92150A)

**92150E** Box of ten 1200 ft. (366 m) tapes on reels, in seals (Supersedes 92150B)

**92150F** Box of ten 2400 ft. (732 m) tapes on reels, in seals (Supersedes 92150C)

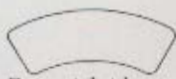
**92150P** Box of ten 2400 ft. (732 m) tapes on reels, in Easy Load II cartridges. Used with 7976 Autoload tape drives.

### Magnetic tape accessories

**92150Q** Box of 10 empty Easy Load II self-threading cartridges. To be used on 2400 ft. tapes (10.5 in. reels) when using the auto-load feature on HP 7976 tape drives.

#### **NEW** 92150K Magnetic tape reel labels.

Blank white adhesive labels. For quick identification and indexing of your tapes and other items. 1000 labels to a roll.



**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.

**NEW** **92150M** Mag tape sense markers These reflective, pressure-sensitive markers offer convenience as Beginning of Tape and End of Tape indicators. 250 markers to a card.



92150L Mag tape color/numbering kit

**92150R** Tape crimper. Hand-operated carbon steel cutter which forms and cuts the end of 0.5 inch (12.7 mm) mylar computer tape for positive loading on HP 7976 Auto Load Tape Drives.

**92150T** Transport/carrying case for 2400 ft. magnetic tapes. Holds up to six (6) reels in either tape seals or Easy Load Cartridges. This case combines durable polyethylene and quality construction on the outside with shock-absorbing foam on the inside, insuring reliable protection when carrying or shipping your valuable data and software. Built-in hasp for your personal padlock.



92150T Transport/carrying case and 92150R Tape crimper

### Magnetic alignment tape

**9162-0027** Head alignment tape. Has tracks, recorded at 800 BPI, precisely located on its 600 ft. (183 m) length. Used during testing or adjustment of 7- and 9-track head alignment on 0.5 in. (12.7 mm) tape units. In protective canister.

### Magnetic tape head cleaning supplies

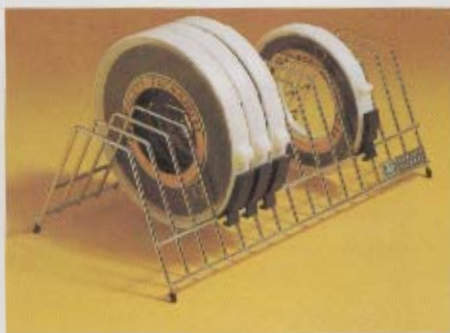
Although HP does not recommend the cleaning of rigid or flexible disc media we do recommend the periodic cleaning of tape heads, capstans and guides on tape units and those products using high-density data cartridges and mini data cartridges. Such cleaning prolongs tape/head life, and it helps reduce read/write errors due to dust and oxide build-up.

**NEW** **92193X** Cleaning solution. See cleaning accessories on page 28.

**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.

**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 tape transports. Use with 92193X magnetic head cleaning solution.



92206T Magnetic tape rack

**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 ft., 1200 ft., or 2400 ft. tapes in seals. Order today and transform your desk or shelf into an organized data library. Buy three and save.

### Mag tape storage cabinet

See 92172D, page 40-41

**NEW** **92193H** Magnetic head clean kit. See page 27.



## Personal/desktop computers

### HP Series 80 personal computers



82933A Carrying case with HP-85 inside

**82931A Box of 2 rolls thermal paper,** blue print.

**82954A Box of 2 rolls thermal paper,** black print.

**82932A Binder for tape cartridge, flexible disc, & documentation.**

**82933A HP-83/85 carrying case.** This soft-vinyl carrying case is designed with foam padding to protect your HP-83/85.

**13269A HP-83/85 shoulder strap carrying case.** This soft-vinyl case is perfect for safely transporting your HP-83/85 across town or around the world. The soft shoulder-strap makes transporting easy.

**82935A Three-ring system literature binder.**



**82948A HP-83/85 dust cover.** Designed of durable, dark tan cloth to protect your personal computer.

**82955A HP-87 dust cover.** Protect your valuable personal computer with this durable, dark tan cloth cover.

**NEW 82956A Keyboard overlays** for HP-86 and HP-87. One printed and five blank overlays per package.

**Mini data cartridges.** 98200A; see page 7.

**82905A/B printer.** See page 17.

**Flexible discs.** See page 5.

**Cables.** See page 29.

**Series 80 software.** See page 50.

**Workstations for personal computers.** See page 35.

### HP 125 personal computer

**92160A Box of 24 rolls thermal paper,** blue print.

**92160B Box of 24 rolls thermal paper,** black print.

**9282-0929 HP 125 business assistant binder.** This three-ring binder is designed

for HP 125 system manuals and other documentation.

**Flexible discs.** See page 5.

**Cables.** See page 29.

**HP 125 software.** See page 46.

### HP 9800 series desktop computers

#### 9805A Calculator

Uses ordinary adding machine paper 2.25 in. (57.2 mm) wide.

**9282-0511 Individual ribbon,** red and black (minimum order 3 ribbons).

#### 9810A Calculator

**Magnetic program cards** (5060-9152, 9162-0012 & 9162-0045). Listed under 9820A Calculator.

**09810-90016 Individual program pad.**

#### 9815A/S Desktop computers

**Mini data cartridge** (98200A; see page 7).

**7120-4691 Individual blank key overlay** (minimum order 5).

**09815-90011 Individual program pad.**

#### 9820A Calculator

**5060-9152 Individual 6-in. (152.4-mm) magnetic program card,** with envelope (minimum order 10).

**9162-0012 Individual 6-in. (152.4-mm) magnetic program card,** without envelope (minimum order 10).

**9162-0045 Individual 10.5-in. (266-mm) magnetic program card,** without envelope.

**9230-0052 Individual magnetic card holder sheet** (minimum order 5). Holds 3 cards; for binder or file.

**09820-90016 Individual program pad.**

#### 9821A Calculator

**Digital tape cassette** (9162-0050; see page 8).

**Program pad** (09820-90016; listed under 9820A Calculator).

### 9825A/S Desktop computers

**98200A Box of 5 mini cartridges,** each with own protective plastic box.



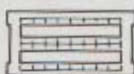
These rugged HP-manufactured storage devices are each 100% tested mechanically (for proper tape tension and drive force requirements) and electromagnetically (for error-free data recording). Metal back-plate construction helps ensure accurate alignment of tape guides and other internal parts, while providing a grounding surface to protect the minicartridge from effects of static electricity.

In addition to the HP 9825A/S, the 98200A Mini Data Cartridges are used with HP 85A, 9815A/S, 9835A/B & 9845A/B/S/T Desktop Computers, 9915A, OPT001 modular computers—as well as with HP 264X-Series Terminals.



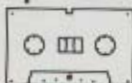
For reliable operation, the mini-cartridge drive in your HP Desktop Computer should be visually inspected and cleaned with the HP Magnetic Head Clean Kit and HP Cleaning Components. See pages 9, 27.

**7120-4802 Individual blank key overlay** (minimum order 5). Also used with HP 9831A Desktop Computer.

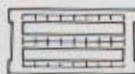


### 9830A/B Desktop computers

**9162-0050 Individual digital tape cassette**, in protective plastic box. Also used with HP 9821A Desktop Computer.



**7120-3510 Package of 6 blank key overlays.**



**09830-90016 Individual program pad.**

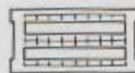
**9831A Desktop computer Mini data cartridge** (98200A; see page 7).

**Blank key overlay** (7120-4802; listed under 9825A/S).

### 9835A/B Desktop computers

**Mini data cartridge** (98200A; see page 7).

**7120-6452 Individual blank key overlay** (minimum order 5).

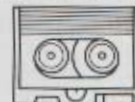


### 9836A Desktop computer

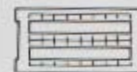
Uses 92190A flexible discs. See page 5. Software for 9836A. See page 47.

### 9845A/B/C/S/T Desktop computers

**Mini data cartridge** (98200A; see page 7).



**7120-6164 Individual blank key overlay**, for 9845A/B/S/T, (minimum order 5).



### 9915A Modular computer

Opt. 001 uses 98200A mini data cartridges. See page 7.

## Thermal paper for HP 9800 series

Hewlett-Packard thermal papers are manufactured to yield high-quality, fade-resistant copies. The paper surfaces are exceptionally smooth to prevent excessive abrasion between






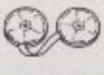


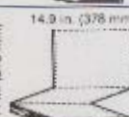
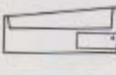
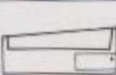




the printhead and paper which leads to premature head wear. Moreover, HP Engineers test these papers on an on-going basis to ensure these quality standards are met.

Desktop computer model number	Part number / description	Dimensions & measurements	Unit of measure	Cross-reference to other supplies & accessories
9810A 9820A Calculators 9821A	9261-0401 Blue print continuous roll	2.25 in. (57 mm)  250 ft. (76 m) roll	Box of 6 rolls	See: Magnetic data cards ... pg. 11 Program pads ... pg. 11 Magnetic program cards ... pg. 11 Magnetic card holders ... pg. 11 Digital tape cassette ... pg. 6
9815A/S 9825A/S 9835A/B	9270-0479 Blue print continuous roll	2.25 in. (57 mm)  250 ft. (76 m) roll	Box of 6 rolls	For 9815A/S see: 98200A Mini data cartridge ... pg. 7 Blank key overlay ... pg. 11 Individual program pad ... pg. 11
	9270-0664 Black print continuous roll	 250 ft. (76 m) roll	Box of 6 rolls	For 9825A/S see: 98200A Mini data cartridge ... pg. 7 Blank key overlay ... pg. 12
9845A/B/C/S/T	92161A Blue print continuous roll U.S. dimensioned	8.5 in. (216 mm)  200 ft. (61 m) roll	Box of 6 rolls	For 9835A/B see: 98200A Mini data cartridge ... pg. 7 Blank key overlay ... pg. 12
	92161B High-contrast blue print continuous roll U.S. dimensioned	 200 ft. (61 m) roll	Box of 6 rolls	
	92161C High-contrast black print continuous roll U.S. dimensioned	 200 ft. (61 m) roll	Box of 6 rolls	
	92161D Black print page-perforated roll U.S. dimensioned	8.5 in. (216 mm) 11 in. (279 mm)  200 ft. (61 m) roll	Box of 6 rolls	
	92161E High-contrast black print page-perforated roll U.S. dimensioned	 200 ft. (61 m) roll	Box of 6 rolls	
	92161M Blue print continuous roll metric dimensioned	8.27 in. (210 mm)  197 ft. (60 m) roll	Box of 6 rolls	
	92161N High-contrast blue print continuous roll metric dimensioned	 197 ft. (60 m) roll	Box of 6 rolls	
	92161P High-contrast black print continuous roll metric dimensioned	 197 ft. (60 m) roll	Box of 6 rolls	
	92161Q Black print page-perforated roll metric dimensioned	8.27 in. (210 mm) 11.75 in. (298.5 mm)  197 ft. (60 m) roll	Box of 6 rolls	
	92161R High-contrast black print page-perforated roll metric dimensioned	 197 ft. (60 m) roll	Box of 6 rolls	



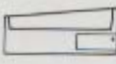
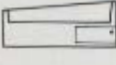


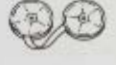

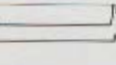

## Impact printers

### Ribbons and paper

Impact printer model number	Part number / description	Dimensions & measurements	Unit of measure	Cross-reference to other supplies & accessories
<b>2601A</b> Daisywheel Printer	<b>92151C</b> Multistrike, high-capacity, reel-to-reel ribbon cartridges. Black print.	 5/16 in. ribbon, 235,000 characters	Box of 12	See: Bidirectional forms tractor ..... pg. 16 Data printout carrier ..... pg. 28 Paper transporter ..... pg. 37 Printer stand ..... pg. 36 Printwheel cleaning kit ..... pg. 27 Printwheels, plastic & metal ..... pg. 15
	<b>92151D</b> Fabric, continuous cycle feed ribbon Cartridges. Black print.	 5/16 in. ribbon, 1 million characters	Box of 12	Printwheel storage album ..... pg. 16 Sound absorbing mat ..... pg. 14 Sound enclosures ..... pg. 14
	<b>92157A</b> 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	
	<b>92157B</b> Fanfold, 3-hole punched, blank printer paper.	 9.9 in. (251 mm) 8.5 in. (216 mm) 11 in. (279 mm) 15 lb. bond, white, 3200 sheets/box	Box	
	<b>92157C</b> Fanfold, micro-perforated printer paper for high-quality word processing applications.	 9.5 in. (241 mm) 8.5 in. (216 mm) 11 in. (279 mm) 20 lb. no. 1 bond, white, 2400 sheets/box	Box	
<b>2607A</b> Dot Matrix Line Printer (Also 9881A Printer and 12987A Subsystem)	<b>9282-0531</b> Nylon ribbon, reel-to-reel. Black print.	 3/4 in. ribbon, 36 yards, .005 in. thick.	Each	Minimum order 6 ribbons See: Paper transporter ..... pg. 37 VFU tape ..... pg. 28 VFU tape winder ..... pg. 28
	<b>9280-0705</b> 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	
	<b>9280-0218</b> 80-column green-bar printer paper.	 9.9 in. (251 mm) 11 in. (279 mm) 15 lb. bond green-bar (1/2 in.), 3200 sheets/box	Box	
	<b>9320-1515</b> 132-column blue-bar printer paper.	 14.9 in. (378 mm) 11 in. (279 mm) 18 lb. bond blue-bar (1/2 in.), 2400 sheets/box	Box	
<b>2608A/S</b> Dot Matrix Printer Impact printer paper: see papers listed under 2601A & 2607A above.	<b>92158A</b> Ribbon cartridges, mobius loop construction, continuous feed. Black print.	 3/4 in. ribbon, 60 yards, 30 million characters	Box of 3	See: Alignment guides ..... pg. 16 Layout forms ..... pg. 16 Sound cover kit ..... pg. 16
	<b>92158M</b> Ribbon cartridges, for optical mark recognition applications. Black print.	 3/4 in. ribbon, 60 yards, 3 million characters	Box of 3	
<b>2613A</b> Line Printer (Also 12975A Subsystem)	<b>9282-0545</b> Wide nylon ribbon. Blue/black print.	 15 in. ribbon, 20 yards, .004 in. thick	Each	See: VFU tape, prepunched ..... pg. 16 VFU tape, blank ..... pg. 28 VFU tape, punch ..... pg. 28 VFU tape, winder ..... pg. 28
<b>2617A</b> Line Printer (Also 13053A Subsystem) Impact printer paper: see papers listed under 2601A & 2607A above.				
<b>2618A</b> Line Printer (Also 12963A Subsystem) Impact printer paper: see papers listed under 2601A & 2607A above.	<b>9282-0543</b> Wide nylon ribbon. Blue/black print.	 14-1/2 in. ribbon, 20 yards, .004 in. thick	Each	See: VFU tape, prepunched ..... pg. 16
<b>2619A</b> Line Printer <b>2611A</b> Line Printer Impact printer paper: see papers listed under 2601A & 2607A above.	<b>1535-3914</b> Wide nylon ribbon for normal print applications. Blue/black print.	 14 in. ribbon, 15 yards, .005 in. thick	Each	See: VFU tape, prepunched ..... pg. 16 Vacuum bags ..... pg. 16
	<b>92230A</b> Wide nylon ribbon. For high-contrast print applications. Black print.	 14 in. ribbon, 18 yards, .004 in. thick	Each	



## Impact printer ribbons and paper

Impact printer model number	Part number / description	Dimensions & measurements	Unit of measure	Cross-reference to other supplies & accessories
2631A/B Dot Matrix Printer	92155A Ribbon cartridges, mobius loop construction, continuous feed. Black print.	 3/4 in. ribbon, 55 yards, 15 million characters	Box of 3	See: Print head ..... pg. 16 Paper transporter ..... pg. 37 Print stand ..... pg. 36 Sound cover ..... pg. 16
2631G Graphics Printer				
2635A/B Printing Terminal	92155B Ribbon cartridges, used with 2631G, opt. 200 only. Black print.	 3/4 in. ribbon, 55 yards, 5000 bar code labels (10 char each)	Box of 3	
2639A Printing Terminal				
Impact printer paper: See papers listed under 2601A & 2607A above.				
2752A Teleprinter	9282-0524 Nylon ribbon, reel-to-reel. Black print.	 1/2 in. ribbon, 16 yards, .005 in. thick	Each	Minimum order 6 ribbons See: Mylar perforator tape .. pg. 16 Paper tape, blank ..... pg. 16
	9280-0046 Teleprinter paper, friction feed.	 8 in. (203 mm) 370 ft. (113 m)	Each	Order in multiples of 12 only.
2762B Terminal Printer	1535-2577 Nylon ribbon, reel-to-reel. Black print.	 1/2 in. ribbon, 18 yards, .005 in. thick	Each	Minimum order 6 ribbons
Impact printer paper: see paper listed under 2752A. Also uses 9280-0705 paper listed under 2607A.				
2767A Line Printer	9300-0427 Wide nylon ribbon. Blue/black print.	 9 in. ribbon, 28 yards, .005 in. thick	Each	
Impact printer paper: see papers listed under 2601A and 2607A (except 9320-1515)				
82905A/B Dot Matrix Printer	92158A Ribbon cartridges continuous feed. Black print.	 1/2 in. ribbon, 20 yards, 3 million characters	Box of 2	See: Print head ..... pg. 17 Print stand ..... pg. 17
Impact printer paper: see paper listed under 2601A				
9871A Character Printer	9282-0581 Nylon ribbon cartridge. Black print.	 5/16 in. ribbon, 16 yards, 500,000 characters	Each	Minimum order 6 ribbons See: Print wheels ..... pg. 17
Impact printer paper: see papers listed under 2601A & 2607A above.				



HP 2601A Printer with 92177A sound pad

## 2601A Daisywheel Printer

**92177A Sound absorbing pad.** Help quiet your 2601A or other printers. The main body is made of high-quality felt treated with a stiffening agent which allows continuous lateral motion without fiber break-down. The non-skid rubber bottom holds the pad firmly on your stand or desk, thus preventing "printer creep." The top corners are impregnated with a layer of latex to hold your printer



HP 2601A Inside 92177E sound enclosure

firmly on the pad. Size is 18 x 22 in. (457 x 559 mm). Order several and save.

**92177E Sound enclosure.** Reduce unwanted noise in your office or work area up to 30%! This sound enclosure is specifically designed to quiet the HP 2601A Printer. The construction of the cabinet allows outside access to the platen knob and front control panel of the printer. A slot in the rear panel allows use of continuous forms. The top is an easy-to-open

acrylic shield which holds in any position. A whisper-quiet fan with on-off switch keeps your printer running cool. An electrical plug on the rear of the enclosure is an added safety feature. It allows you to plug in your printer and turn it on or off by using the fan switch. This helps ensure that the fan will be on when the printer is operating, preventing heat buildup in the enclosure. Shipped assembled and ready to install. Color is gray sides, dark gray top and back. Size is 25 5/8 W x 22 1/2 D x 14 1/2 H in. (653 x 572 x 368 mm). Electrical requirement 110 VAC, 60 Hz.  
NOTE: Shipped by truck.

**92177F Sound enclosure.** This enclosure is equipped with a 220 VAC cooling fan, heavy-duty line cord and a CEDEC (see page 31, 8120-1369) standard plug for international use. This unit does not have an additional electrical outlet on rear of enclosure. Other specifications are the same as 92177E.



## 2601A Impact printer



The HP 2601A offers complete interchangeability between metal and plastic daisy print wheels. The pitch or characters per inch is usually identified in the print wheel title, i.e., a 10 represents a

10-pitch and 12 is 12-pitch. The courier 72 is an exception; it is 10-pitch. A PS indicates a proportionally spaced wheel.

**NEW** See 92193C Printwheel clean kit page 27.

## Plastic Print Wheels—96 Character

## Pica 10

ABCDEF GHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz  
0123456789 ~@,.;:~+\$%&'{}[]()>=<~^\_?!\&\*~

## Part number 92252A

## Courier 10

ABCDEF GHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz  
0123456789 ~@,.;:~+\$%&'{}[]()>=<~^\_?!\&\*~

## Part number 92252B

## Manifold 10

ABCDEF GHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz  
0123456789 ~@,.;:~+\$%&'{}[]()>=<~^\_?!\&\*~

## Part number 92252C

## APL-10

abcnle\_?@!~\*[]|to~?p[-+u~t=ABCDEF GHIJKLMNOPQRSTUVWXYZ  
0123456789 ~@,.;:~+\$%&'{}[]()>=<~^\_?!\&\*~

## Part number 92252D

## OCR-A 10

ABCDEF GHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz  
0123456789 ~@,.;:~+\$%&'{}[]()>=<~^\_?!\&\*~

## Part number 92252E

## OCR-B 10

ABCDEF GHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz  
0123456789 ~@,.;:~+\$%&'{}[]()>=<~^\_?!\&\*~

## Part number 92252F

## Courier Legal 10A

ABCDEF GHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz  
0123456789 ~@,.;:~+\$%&'{}[]()>=<~^\_?!\&\*~

## Part number 92252G

## Elite 12

ABCDEF GHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz  
0123456789 ~@,.;:~+\$%&'{}[]()>=<~^\_?!\&\*~

## Part number 92252H

## Prestige Elite Legal 12A

ABCDEF GHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz  
0123456789 ~@,.;:~+\$%&'{}[]()>=<~^\_?!\&\*~

## Part number 92252J

Note: Some special characters and symbols may not correspond with USASCII keyboards.

## Metalized Print Wheels—88 Character

## Titan 10

ABCDEF GHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz  
0123456789 ~@,.;:~+\$%&'{}[]()>=<~^\_?!\&\*~

## Part number 92153A

## Pica 10

ABCDEF GHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz  
0123456789 ~@,.;:~+\$%&'{}[]()>=<~^\_?!\&\*~

## Part number 92153B

## Elite 12

ABCDEF GHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz  
0123456789 ~@,.;:~+\$%&'{}[]()>=<~^\_?!\&\*~

## Part number 92153C

## Letter Gothic 12

ABCDEF GHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz  
0123456789 ~@,.;:~+\$%&'{}[]()>=<~^\_?!\&\*~

## Part number 92153D

## Bold PS

ABCDEF GHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz  
0123456789 ~@,.;:~+\$%&'{}[]()>=<~^\_?!\&\*~

## Part number 92153E

**92252 Series plastic 96-character wheels, box of 6.** (supersedes 92152 series).

**92153 Series metalized 88-character wheels.**

## Courier 72

ABCDEF GHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz  
0123456789 ~@,.;:~+\$%&'{}[]()>=<~^\_?!\&\*~

## Part number 92252K

## General Scientific

V=70<A1>500+170Z-S=Δ=7=a600e(An),kuuvcoy007(×δxvz  
0123456789 ~@,.;:~+\$%&'{}[]()>=<~^\_?!\&\*~

## Part number 92252L

## German Pica 10A

ABCDEF GHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz  
0123456789 ~@,.;:~+\$%&'{}[]()>=<~^\_?!\&\*~

## Part number 92252P

## German Courier 10

ABCDEF GHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz  
0123456789 ~@,.;:~+\$%&'{}[]()>=<~^\_?!\&\*~

## Part number 92252U

## German Elite 12

ABCDEF GHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz  
0123456789 ~@,.;:~+\$%&'{}[]()>=<~^\_?!\&\*~

## Part number 92252V

## French Pica 10

ABCDEF GHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz  
0123456789 ~@,.;:~+\$%&'{}[]()>=<~^\_?!\&\*~

## Part number 92252Q

## French Prestige Cubic 10 Part number 92252W

ABCDEF GHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz  
0123456789 ~@,.;:~+\$%&'{}[]()>=<~^\_?!\&\*~

## U.K. Courier 10

ABCDEF GHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz  
0123456789 ~@,.;:~+\$%&'{}[]()>=<~^\_?!\&\*~

## Part number 92252X

## Kana Gothic Elite 12

ABCDEF GHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz  
0123456789 ~@,.;:~+\$%&'{}[]()>=<~^\_?!\&\*~

## Part number 92252T

Note: Typestyle examples are photographically reduced.

## Metalized Print Wheels—96 Character

## Titan 10

ABCDEF GHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz  
0123456789 ~@,.;:~+\$%&'{}[]()>=<~^\_?!\&\*~

## Part number 92153U

## Financial 10

ABCDEF GHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz  
0123456789 ~@,.;:~+\$%&'{}[]()>=<~^\_?!\&\*~

## Part number 92153V

## Cubic PS 96

ABCDEF GHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz  
0123456789 ~@,.;:~+\$%&'{}[]()>=<~^\_?!\&\*~

## Part number 92153W

Note: Typestyle examples are photographically reduced.

**92153 Series metalized 96-character wheels.**



## Impact printer supplies

**Ribbons and paper.** See pages 13 and 14.



92167W Print wheel album

**92167W Print wheel storage album.** Organize your HP 2601A daisy print wheels with our Print Wheel Storage Album. It has a capacity of 6 print wheels and is ruggedly constructed to prevent damage while providing a dust-free storage environment. Snap the print wheels in place, close cover and store this handsome album wherever you like. Bone color with black accent. Size is 9½ x 11½ in. Order several and save.



26010A Bidirectional forms tractor

**26010A Bidirectional forms tractors.** Add the convenience of continuous forms to your HP 2601A printer. The tractors install easily over existing platen and are advanced as the platen turns. The tractor wheels are adjustable to accept up to 16 in. form widths. With the forms tractors installed, the HP 2601A will fit completely inside the 92177E/F sound enclosures.

### 2607A Dot matrix line printer

Paper widths accepted: 4.0 in. (100 mm) minimum; 14.8 in. (377 mm) maximum.

**02607-80024 Individual pre-punched VFU tape.** 66 lines per page.

**02607-80015 Roll of 8-channel blank VFU tape.** 20 ft. (6.1 m) long.

**02607-60230 VFU tape kit.** Roll of blank tape, plus 20 splices.

### 2608A/S Dot matrix printer

Paper widths accepted: 4.9 in. (125 mm) minimum; 16.1 in. (385 mm) maximum.

**02608-60091 Package of layout forms.** Total 250 sheets on 5 pads.

**02608-60092 Package of 10 alignment guides.** (2608A printers with chrome tractors).

**92159A Package of 10 alignment guides** (2608A printers with black tractors).

**26004A Sound cover kit.** Designed to quiet your 2608A/S Printer. Included in the cover is a built-in static eliminator which reduces paper static buildup and aids in proper paper stacking.



### 2613A Line printer

Paper widths accepted: 4.9 in. (124 mm) minimum; 16.7 in. (426 mm) maximum.

**Individual pre-punched VFU tape.** Also used with HP 2617A, 2618A and 2619A Printers.

**02613-80001** (66 lines/page)

**02618-80003** (88 lines/page)

### 2617A Line printer

Paper widths accepted: 4.0 in. (100 mm) minimum; 16.7 in. (426 mm) maximum.

**Ribbon and VFU tape:** Same as for HP 2613A Printer.

### 2618A Line printer

Paper widths accepted: 4.0 in. (100 mm) minimum; 19.0 in. (495 mm) maximum.

**VFU tape:** Same as for HP 2613A Printer.

### 2619A Line printer

Paper widths accepted: 3.5 in. (89 mm) minimum; 19.5 in. (495 mm) maximum.

**VFU tape:** Same as for HP 2613A Printer.

**9300-0750 Package of 3 vacuum bags** (minimum order 5 packages).

**NOTE:** locally available regular Type G short bags (Hoover PN 43651-060) may be used.

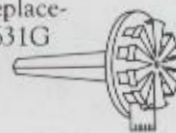
### 2631A/B Dot matrix printer

Paper widths accepted: 2.2 in. (56 mm) minimum; 15.7 in. (400 mm) maximum.

### 2631G Graphics printer

Uses same supplies as HP 2631A/B Printer.

**92154G Print head.** Replacement Print Head for 2631G Opt. 200. Also fits other 263X-series printers.



### 2635A/B Printing terminal

Paper widths accepted: 2.2 in. (56 mm) minimum; 15.7 in. (400 mm) maximum.

Uses same supplies as 2631A/B Dot matrix Printer.

### 2639A Printing terminal

Uses same supplies as HP 2635A/B above.

### 263X Family sound cover

**26090A Sound cover.** Help

quiet your HP 2630 family printers with this easily installed abatement cover. It will reduce printing noise up to 10 dB. Includes mounting clips, paper intake shield and instructions.



**Cables.** See page 29.

**Printer stands.** See page 36.

### 2752A Teleprinter

**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.

### Mylar perforator tape

**0460-0747 Roll of aluminized mylar tape;** 1 in. (25.4 mm) wide, 1000 ft. (305 m) long. Gold/Green color.



### 82905A/B Dot matrix impact printer

Paper widths accepted: 4 in. (102 mm) minimum; 10 in. (256 mm) maximum.

**92154P Print head.** Reliable and user installable. Average life is 50 to 100 million characters.



92171S Desktop printer stand

**92171S Desktop printer stand.** This unique smoked acrylic printer stand is designed for use with the HP 82905B printer.

**Improves paper flow.** Fanfold paper conveniently fits inside the printer stand—providing organization and improved paper flow while printing. Printer stand holds paper size 4 in. (102 mm) to 10 in. (254 mm) wide.

**Looks professional.** This attractive printer stand lends a professional look to any work environment.

**Sized right.** The stand measures 15 in. (380 mm) W x 14 in. (355 mm) D x 3-3/8 in. (85 mm) H. The right size for personal/office workstations.

For impact printer ribbons and paper, see page 13.

### 9871A Character impact printer

Paper widths accepted: 2.0 in. (50 mm) minimum; 15.0 in. (381 mm) maximum.

**Package of 3 print discs.** Each package contains 3 identical, 96-character print discs. Available in following character sets:

<b>1530-0697</b>	(Standard)
<b>1530-1810</b>	(European)
<b>1530-1811</b>	(ASCII)
<b>1530-1851</b>	(Katakana)
<b>1530-1895</b>	(Cyrillic)
<b>1530-2022</b>	(APL)



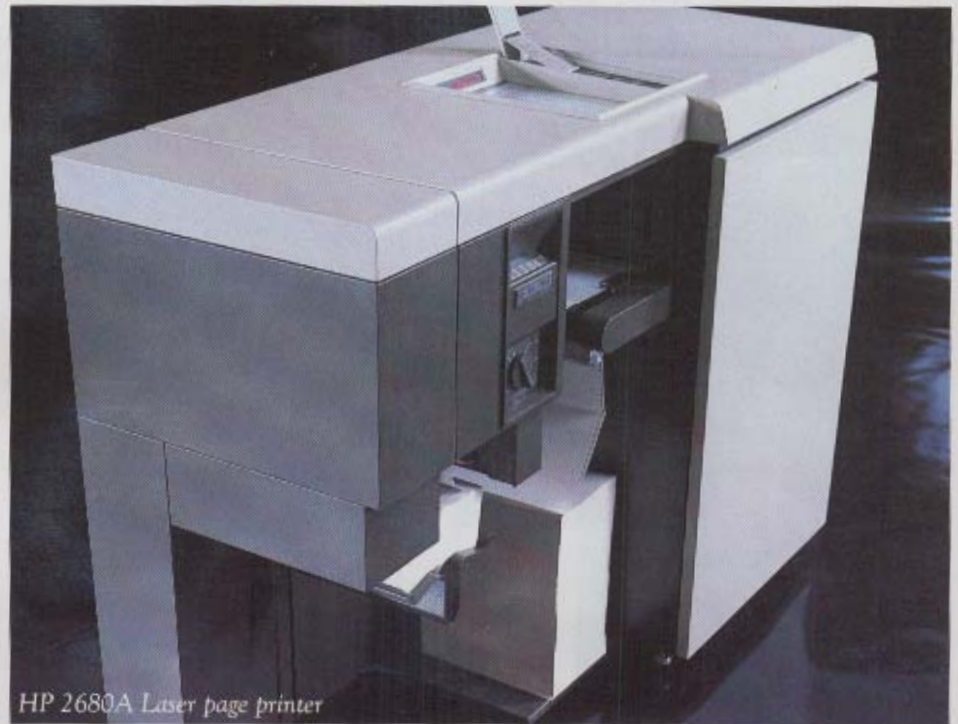
## Laser page printer

**92180A Toner.** Specially formulated for the HP 2680A Laser Page Printer. Meets HP warranty requirements. Box of 12 one-kilogram bags. Depending on print density, one kilogram will provide 16 to 20,000 pages of output. Six boxes is 6-months supply under normal usage.

**NEW 92180D Drum kit.** Replacement drum for HP 2680A Laser Printer. Includes new cleaner blade. **NOTE:** Drum coating contains cadmium sulfide and must be handled with care. The old drum should be returned to Hewlett-Packard for proper disposal. Return instructions vary depending upon location. Check with your local HP office for details.

**NEW 92180T Maintenance tool kit.** Contains all basic tools needed to perform scheduled maintenance on the HP 2680A Laser Printer. Includes corona stringing tool, magnetic-orientation tool, cleaner blade pressure tool. Comes in plastic tool case.

**92181A Disposal containers.** Box of 6 plastic containers for collection and clean disposal of used toner. Two boxes is 6-months supply under normal usage.



HP 2680A Laser page printer

**92182A Carrier.** Box of 24 bottles for replenishing the electrophotographic process of the HP 2680A. One box is 6-months supply under normal usage.

**NEW 92182D Developer.** Box of six bottles for use during maintenance of the HP 2680 Laser Printer. One bottle is needed every time drum is replaced. One box is 6-months supply under normal usage.

continuous forms on the splicing table. One box is 6-months supply under normal usage.

**92184A 18-lb. (69-gm/sq. meter) continuous fan-fold paper.** Dimensions are 12 x 8.5 in. (305 x 216 mm), including pin feed strips. Yields 11 x 8.5 in. (279 x 216 mm) finished copies. 3600 Sheets per box, 45 boxes per pallet. Sold only in pallet load quantities, minimum order one pallet, 9 pallets is 6-months supply under normal usage.

**92183A Splicing tape.** One box contains 6 rolls of splicing tape for joining boxes of




## Thermal printers

### Paper

Hewlett-Packard thermal papers are manufactured to yield high-quality, fade-resistant copies. The paper surfaces are exceptionally smooth to prevent excessive abrasion between

the printhead and paper which leads to premature head wear. Moreover, HP Engineers test these papers on an on-going basis to ensure these quality standards are met.

Thermal printer model number	Part number & description	Dimensions & measurements	Unit of measure	Cross-reference to other supplies & accessories
2671A	92160A Blue print. Continuous roll. U.S. dimensioned.	8.5 in. (216 mm) 	Box of 24 rolls	See: Printer/plotter stand ..... pg. 36
2671G	92160B Black print. Continuous roll. U.S. dimensioned.	8.5 in. (216 mm) 100 ft. (30.5 m) roll	Box of 24 rolls	Cables ..... pg. 29
2673A	92160C Black print. Page-perforated roll. U.S. dimensioned.	8.5 in. (216 mm) 100 ft. (30.5 m) roll	Box of 24 rolls	
	92160M Blue print. Fanfold pack. U.S. dimensioned.	8.5 in. (216 mm) 11 in. (279 mm) 330 sheets per pack	Box of 4 packs	
	92160N Black print. Fanfold pack. U.S. dimensioned.	8.5 in. (216 mm) 11 in. (279 mm) 330 sheets per pack	Box of 4 packs	
7240A	9270-0607 Black print. Page-perforated roll. Metric dimensioned.	9.5 in. (241 mm) 8.27 in. (210 mm) 11.75 in. (298.5 mm) 200 ft. (61 m)	Box of 2 rolls	See: Thermal print head ..... pg. 24
7245B	9270-0700 Blue print. Page-perforated roll. Metric dimensioned.	9.5 in. (241 mm) 8.27 in. (210 mm) 11.75 in. (298.5 mm) 200 ft. (61 m)	Box of 2 rolls	
	9270-6090 Black print. Continuous roll. U.S. dimensioned.	8.5 in. (216 mm) 200 ft. (61 m)	Box of 2 rolls	
	9270-0959 Blue print. Continuous roll. U.S. dimensioned.	8.5 in. (216 mm) 200 ft. (61 m)	Box of 2 rolls	
	9270-0605 Black print. Page-perforated roll. U.S. dimensioned.	8.5 in. (216 mm) 11 in. (279 mm) 200 ft. (61 m)	Box of 2 rolls	
	9270-0699 Blue print. Page-perforated roll. U.S. dimensioned.	8.5 in. (216 mm) 11 in. (279 mm) 200 ft. (61 m)	Box of 2 rolls	
7310A	9270-0680 Black print. Continuous roll. Metric dimensioned.	8.27 in. (210 mm) 246 ft. (75 m)	Box of 6 rolls	
	9270-0681 Blue print. Continuous roll. Metric dimensioned.	8.27 in. (210 mm) 246 ft. (75 m)	Box of 6 rolls	
	9270-0682 Black print. Continuous roll. U.S. dimensioned.	8.5 in. (216 mm) 246 ft. (75 m)	Box of 6 rolls	
	9270-0683 Blue print. Continuous roll. U.S. dimensioned.	8.5 in. (216 mm) 246 ft. (75 m)	Box of 6 rolls	
9866A/B HP 12996 Subsystem	9270-0488 Black print. Continuous roll.	6.75 in. (222 mm) 250 ft. (75 m) roll	Box of 6 rolls	
	9281-0414 Blue print. Continuous roll.	6.75 in. (222 mm) 250 ft. (75 m) roll	Box of 2 rolls	
9876A	9270-0640 Black print. Fanfold pack. U.S. dimensioned.	11 in. (279 mm) 330 sheets per pack	Box of 4 packs	
	9270-0641 Blue print. Fanfold pack. U.S. dimensioned.	11 in. (279 mm) 330 sheets per pack	Box of 4 packs	
	9270-0642 Black print. Fanfold pack. Metric dimensioned.	8.27 in. (211 mm) 11.69 in. (297 mm) 330 sheets per pack	Box of 4 packs	
	9270-0643 Blue print. Fanfold pack. Metric dimensioned.	8.27 in. (211 mm) 11.69 in. (297 mm) 330 sheets per pack	Box of 4 packs	



## Terminals

### Thermal paper for terminals

Hewlett-Packard thermal papers are manufactured to yield high-quality, fade resistant copies. The paper surfaces are exceptionally smooth to prevent excessive abrasion between

the printhead and paper which leads to premature head wear. Moreover, HP Engineers test these papers on an on-going basis to ensure these quality standards are met.

Terminal model number	Part number & description	Dimensions & measurements	Unit of measure	Cross-reference to other supplies & accessories
262X Interactive terminals	92160A Blue print continuous roll U.S. dimensioned	8.5 in. (216 mm)	Box of 24 rolls	For 262X and 2675A see: 1420-0259 Battery ..... pg. 19
2675A Printing terminal	92160B Black print continuous roll U.S. dimensioned	100 ft. (30.5 m) roll	Box of 24 rolls	For 2675A see: 98200A Mini data cartridge ..... pg. 7
3075A Data capture terminals	82045A Blue print continuous roll	2.25 in. (57 mm)	Box of 6 rolls	See: 92193X Cleaning solution pg. 28
3076A		80 ft. (24 m) roll		
3077A				

### 2382A Office display terminal

**13269B Carrying case.** Make carrying easy and protect your HP 2382A terminal with this rugged, soft-sided vinyl case with a handy shoulder strap. An internal pocket holds the keyboard and keeps it from vibrating against the display monitor. Space is provided to slip a small modem inside.

**Need a 2382A terminal fast?** See page 57.

### 262X Interactive terminals



92171H CRT tray

**NEW 92171H CRT tray.** The solution to workstation clutter is here. This unique smoked acrylic CRT tray allows work documents to be neatly stacked on top of your HP 262X- and HP 262X-Series Terminals.

**Stays in place.** Rubber feet keep the CRT tray securely in place on top of your terminals. The curved front lip of the tray also hooks over the edge of work surfaces to organize the inflow and outflow of paperwork around terminals. The net result is increased operator efficiency.

**Easy to use.** The tray has an open front and a handy thumb notch for easy access to contents.

**Holds up to 132-column printout.**

Tray measures 16 in. (41 cm) W x 12 in. (30.5 cm) D x 2½ in. (6.4 cm) H.

**1420-0259 Battery for 262X terminals.**

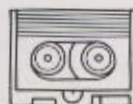
### 264X-Series display terminals

Following supplies are used with HP Models 2640 through 2649 CRT Display Terminals.

**92190A Flexible discs** for HP 2642A. See page 5.

**NEW 92171P Palm rest.** Helps all those who use CRTs daily, to support their wrists and maintain proper forearm angle with the keyboard. The support is also for use with the 264X series and is height adjustable up to 1½ in.

**98200A Box of 5 Minicartridges,** each with own protective plastic box. For HP terminals equipped with minicartridge drive.



13269B Carrying case



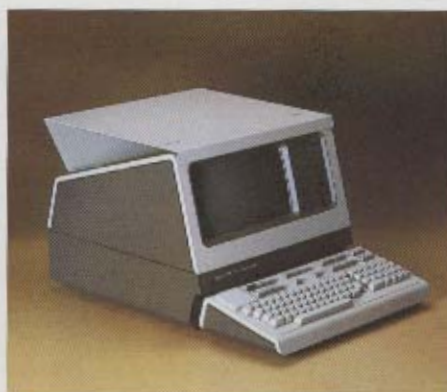
92171P Palm rest

Your terminal's minicartridge drive should be kept clean for continued reliable operation. See Cleaning Kits and Swabs listed on page 27.

**92171H CRT tray.** See 262X listing.



**92171F Printer/plotter stand for 264X-series terminals.** Save valuable workstation surface area with this platform, which provides a level surface for your terminal printer or plotter. There are many other uses for this versatile terminal accessory. (Slots are provided for the front feet of the 2671-series Printers.)



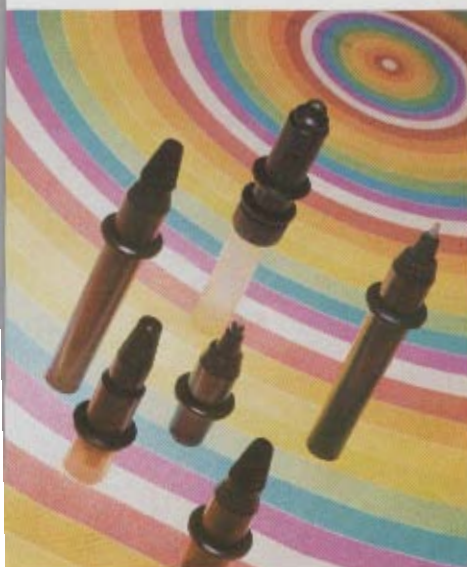
92171F Printer/plotter stand

**7120-5525 Individual blank key overlay** (minimum order 5). Label template fits around user-defined "soft" keys on terminal.

### 3075A, 3076 & 3077A Terminals

**82045A Box of 6 rolls thermal printer paper.**

## Graphics



### Graphics plotter pen compatibility guide

Plotter model no.	Fiber-tip pens		Drafting pens		Roller-ball pens
	Paper writing	Overhead transparency	Short body	Long body	
7220	•	•	•		
7221	•	•	•		
7225	•	•			
7470	•	•			
7580	•			•	•
7585	•			•	•
9872	•	•	•		
Older plotters 7200, 7202, 7203, 7210, 9125, 9862	•				

### Drafting and roller-ball pens

#### **NEW** Drafting pens—short body



For use with 7220, 7221, and 9872 graphics plotters.

**5061-5060** Drafting pen, short body. Used with plotter points listed below. Two pen bodies and pen boots per package.



**Plotter points** (tungsten), used with drafting pen, short body.

- 9300-0955** Point size, .18 mm\*\*
- 9300-0956** Point size, .25 mm\*\*
- 9300-0957** Point size, .35 mm
- 9300-0958** Point size, .50 mm
- 9300-0959** Point size, .70 mm
- 9300-0960** Point size, 1.00 mm

#### Drafting pens—long body



For use with 7580 and 7585 graphics plotters.

**07580-60025** Drafting pen, long body. Used with plotter points listed below. One pen body per package.



**Plotter points** (tungsten), used with drafting pen, long body.

- 9260-0742** Point size, .18 mm\*\*
- 9260-0741** Point size, .25 mm\*\*
- 9260-0588** Point size, .35 mm
- 9260-0744** Point size, .50 mm
- 9260-0579** Point size, .70 mm
- 9260-0743** Point size, 1.00 mm

#### **NEW** Roller-ball pens



For use with 7580 and 7585 graphics plotters.

#### Single-color pen packages

(4 pens/pkg)  
Narrow line width (.3 mm)

**5061-5034** (Red)



**5061-5036** (Blue)



**5061-5035** (Green)



**5061-5033** (Black)



**9260-0596 Drafting ink.** Used with drafting pens. ¾ oz. bottle, black.

\*\*For special fine-line plotting only. These narrow pen tips require more cleaning and care than wider pen tips. Therefore, we do not recommend these fine-line tips for general use on the 7580A and 7585A plotters.

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



## Fiber-tip pens

**Paper writing pens** (newer plotters)

For use with 7220, 7221, 7225, 7470, 7580, 7585, and 9872 graphics plotters.

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

Narrow line width (.3 mm)

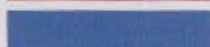
Wide line width (.7 mm)

5060-6784 (Red)



5060-6893 (Red)

5060-6785 (Blue)



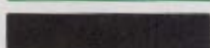
5060-6891 (Blue)

5060-6786 (Green)



5060-6892 (Green)

5060-6787 (Black)



5060-6890 (Black)

**Multi-color pen packages**

Narrow line width (.3 mm)

Wide line width (.7 mm)

5060-6810 4 pens/pkg

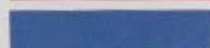
5060-6858 4 pens/pkg

Red



Red

Blue



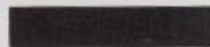
Blue

Green



Green

Black



Black

Narrow line width (.3 mm)

Wide line width (.7 mm)

5060-6894 6 pens/pkg  
1 each of5060-6895 6 pens/pkg  
1 each of

Burnt Orange



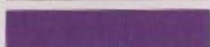
Burnt Orange

Brown



Brown

Violet



Violet

Turquoise



Turquoise

Gold

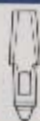


Gold

Lime Green



Lime Green

**Paper writing pens**

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

**Same-color pen packages** (5 pens/pkg.)

5081-1190 (Red)



5081-1192 (Green)

5081-1191 (Blue)



5081-1193 (Black)

**Overhead transparency pens**

For use with 7220, 7221, 7225, 7470, and 9872 graphics plotters.

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

Narrow line width (.3 mm)

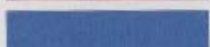
Wide line width (.6 mm)

5061-5012 (Red)



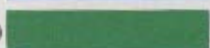
5061-5022 (Red)

5061-5016 (Blue)



5061-5026 (Blue)

5061-5015 (Green)



5061-5025 (Green)

5061-5010 (Black)



5061-5020 (Black)

**Multi-color pen packages** (4 pens/pkg.)

Narrow line width (.3 mm)

Wide line width (.6 mm)

5060-6818  
1 each of5060-6819  
1 each of

Red



Red

Blue



Blue

Green



Green

Black



Black

5060-6834  
1 each of5060-6835  
1 each of

Orange



Orange

Brown



Brown

Violet



Violet

Black



Black

**Transparency ink solvent**

5060-6828 Container of 1 fluid oz. (29.6 ml)

**Plotter pen holder**

07225-40054

This sturdy organizer holds up to four fiber-tip, roller-ball, or short-body drafting pens.

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







## Graphics plotter media size guide

ANSI	Dimensions in inches	A 8½ × 11	B 11 × 17	D 22 × 34	E 34 × 44
ISO	Dimensions in millimeters	A4 210 × 297	A3 297 × 420	A1 594 × 841	A0 841 × 1189

## Media selection guide





## Blank plotter paper

Media size	Part no.	Quantity/ pkg.
A	9280-0589	50 sheets
	9280-0517	300 sheets
A4	9280-0588	50 sheets
	9280-0519	300 sheets
11 x 16.5 in. (280 x 420 mm)	9280-0180	100 sheets
11 x 16.5 in. (280 x 420 mm)	9280-0518	300 sheets
D	9280-0527	200 sheets
A1	9280-0528	200 sheets
 E	9280-0587	150 sheets
 A0	9280-0590	150 sheets
 English size 11 in. × 200 ft. (279 mm × 61 m)	9280-0493	One roll (200 ft.)
 Metric size 297 mm × 61 m (11.69 in. × 200 ft.)	9280-0494	One roll (200 ft.)







## Overhead transparency film

Media size	Part no.	Quantity/ pkg.
A	9270-0639	100 sheets
A4	9270-0360 For use with 7470A only.	50 sheets







## Tracing bond

Media size	Part no.	Quantity/ pkg.
 D	9280-0600	150 sheets
 A1	9280-0599	150 sheets
 E	9280-0598	150 sheets
 A0	9280-0597	150 sheets

## Polyester film

Media size	Part no.	Quantity/ pkg.
 A	9280-0605	50 sheets
 A4	9280-0608	50 sheets
 B	9280-0607	50 sheets
 A3	9280-0606	50 sheets
D	9280-0526	50 sheets
A1	9280-0525	50 sheets
 E	9280-0591	50 sheets
 A0	9280-0592	50 sheets

## Vellum

Media size	Part no.	Quantity/ pkg.
 A	9280-0601	150 sheets
 A4	9280-0603	150 sheets
 B	9280-0602	150 sheets
 A3	9280-0604	150 sheets
D	9280-0529	150 sheets
A1	9280-0530	150 sheets
 E	9280-0593	150 sheets
 A0	9280-0594	150 sheets



## Graphics plotter media compatibility guide

Plotter model number	Blank plotter paper size										Vellum size						Polyester film size						Tracing bond size				Overhead transparency film size					
	A	A4	B	A3	D	A1	E	A0	English roll	Metric roll	A	A4	B	A3	D	A1	E	A0	A	A4	B	A3	D	A1	E	A0	(Diao reproducible media)				A size only	
7220A/C, 7221A/B/C	•	•	•	•							•	•	•	•					•	•	•	•									•	
7220S/T, 7221S/T	•	•	•	•					•	•	•	•	•						•	•	•	•									•	
7225A/B	•	•																													•	
7470A	•	•																													•	
7580A	•	•	•	•	•	•	•	•			•	•	•	•	•	•	•		•	•	•	•	•	•	•		•	•				
7585A	•	•	•	•	•	•	•	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
9872A/B/C	•	•	•	•							•	•	•	•					•	•	•	•									•	
9872S/T	•	•	•	•					•	•	•	•	•						•	•	•	•									•	
Older plotters (7200, 7202, 7203, 7210, 9125, 9862)	•	•	•	•																												

## Plotter supplies kits

A convenient way to get an assortment of pens and plotter media for everyday use.

**17013A Small-sheet kit (metric)** for 7470A and other plotters. Contains 15 pads (750 sheets) of blank A4-size (210 x 297 mm) paper plus the following pens: 10 Black, 10 Red, 5 Green, and 5 Blue. Also includes a sturdy pen holder.

**17014A Small-sheet kit** for 7470A and other plotters. Contains 15 pads (750 sheets) of blank 8.5 x 11 in. (216 x 279 mm) paper plus the following pens: 10 Black, 10 Red, 5 Green, and 5 Blue. Also includes a sturdy pen holder.

**17031A Large-sheet kit** for 7220, 7221 and 9872 Plotters. Contains 400 sheets of 11 x 16.5 in. (280 x 420 mm) paper plus the following pens: 4 Black, 4 Red, 4 Green, and 4 Blue.

**17055A Overhead transparency kit** for 7220, 7221, and 9872 plotters; also 7225 if equipped with velocity-select capability. Contains all supplies necessary to prepare up to 200 overhead projection transparencies. Includes 200 sheets of transparency film, each 8.5 x 11 in. (216 x 279 mm); a bottle of ink solvent; and 16 pens in two tip widths and 7 vivid colors. Packaged in convenient storage box with complete instructions.

**17057A Overhead transparency kit** for the 7470A contains all supplies necessary to prepare up to 50 overhead projection transparencies. Includes 50 sheets of paper-backed transparency film, each 8.5 x 11 in. (216 x 279 mm); and 16 pens in



HP 7470A Graphics plotter

two tip widths and 7 vivid colors. Packaged in convenient storage box with complete instructions.

## Printed plotter papers

**Box of 100 large sheets**, standard grid, available in two weights and two grid sizes:

English (10 x 15 in. grid dimension printed on 11 x 16.5 in.) and

Metric (250 x 380 mm grid dimension printed on 280 x 420 mm).

**9270-1024** Metric grid—heavy wt.

**9270-1042** Metric grid—light wt.

**9270-1004** English grid—heavy wt.

**9270-1005** English grid—light wt.

**Box of 100 small sheets**, Standard Grid, available in two weights and two grid sizes:

English (7 x 10 in. grid dimension printed on 8.5 x 11 in.) and

Metric (180 x 250 mm grid dimension printed on 216 x 280 mm).

**9270-1023** Metric grid—heavy wt.

**9270-1027** Metric grid—light wt.

**9270-1006** English grid—heavy wt.

**9270-1007** English grid—light wt.

## 7220, 7221, and 9872 Graphics plotters

09872-60066 Digitizing sight.

**9300-0967 Replacement drafting pen boots** for short-body drafting pens (when used with 7220, 7221, and 9872 plotters). Two boots per package.



### Graphics (cont.)

#### 7240A, 7245B Thermal plotter/printers

07245-60001 Thermal print head.

**Thermal printer paper**

See page 18.

#### 7310 Thermal forms & text printer

**Thermal printer paper**

See page 18.

#### 7580A, 7585A Drafting plotters

The following supplies are for use with the 7580A and 7585A only.

**Plotter pens and plotting points.** See page 20.

**Plotter media.** See page 22.

**07580-60035 Fiber-tip pen carousel.** Holds 8 fiber-tip pens. See page 21 for paper-writing fiber-tip pens.

**07580-60081 Drafting pen carousel.** Holds 8 long-body drafting pens. See page 20 for long-body drafting pens.

**07580-60082 Roller-ball pen carousel.** Holds 8 roller-ball pens. See page 20 for roller-ball pens.

**4320-0361 Replacement pen boots** for fiber-tip and roller-ball pen carousels.

**4320-0365 Replacement pen boots** for drafting pen carousel.

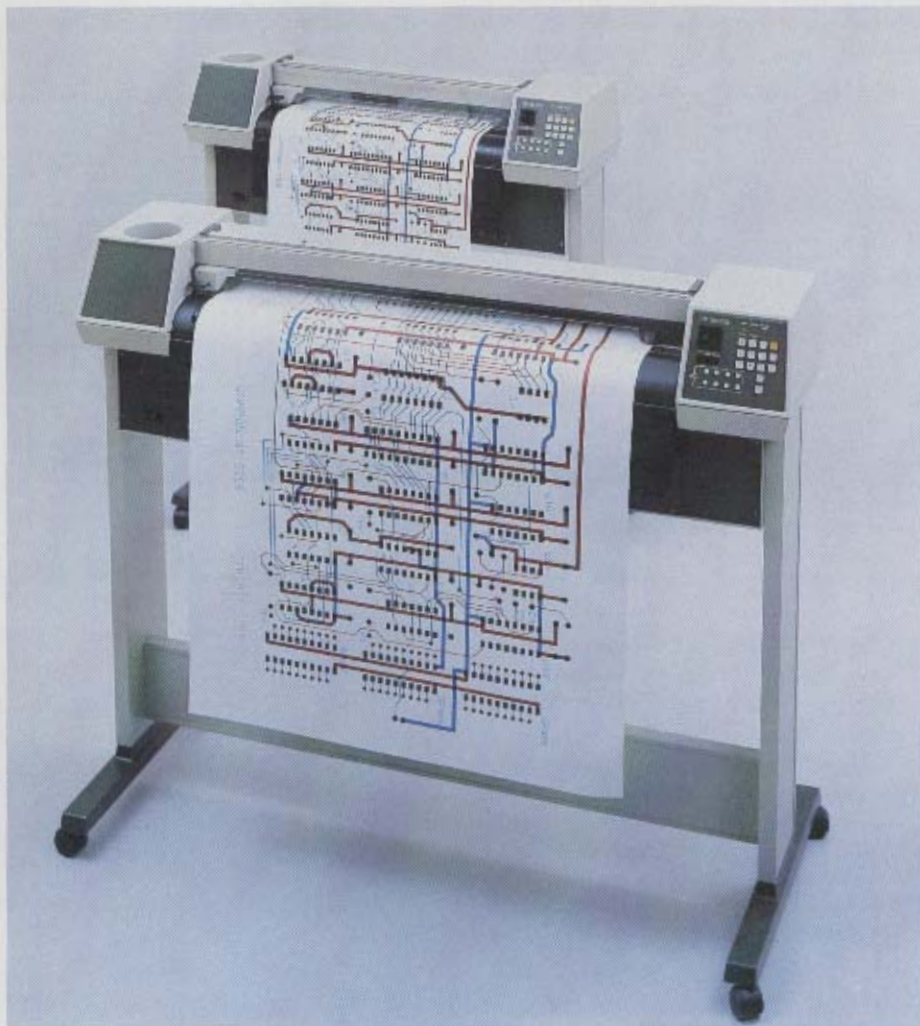
**1540-0714 Writing accessories chest,** hardwood. Keep your drafting plotter supplies protected and organized.

**8710-1386 Grit wheel brush.** Helps in cleaning grit wheel.

**9282-0905 Cleaning syringe.** Used to clean drafting pens, etc.

**9282-0908 Drafting pen cleaning solution,** 5.2-oz. container.

**NEW 07585-60191 Slanted digitizing sight** for use with 7580A and 7585A drafting plotters.



7580A and 7585A Drafting plotters.

#### 9111A/T Graphics tablet

**09111-68701 Package of stylus refills** (2 inkless, 3 ink cartridges).

**7121-0988 Package of three overlays.**

Used to protect and hold down documents of 9111A Graphics Tablet.

#### 9872 Graphics plotter

See 7220, 7221 listing.

#### 9874A Digitizer

**09874-87000 Package of 5 mylar holddown sheets,** each 33.5 x 20.5 in. (851 x 521 mm).

**09874-67924 Individual holddown magnet,** to secure large documents and Mylar Holddown Sheets to platen.



9111A/T Graphics tablet.

**7120-7105 Individual bank key overlay** (minimum order 5).

**Ink cartridge for stylus.** Use Papermate Standard Ballpoint Refill (Papermate PN 46301, black ink, fine line), or equivalent.



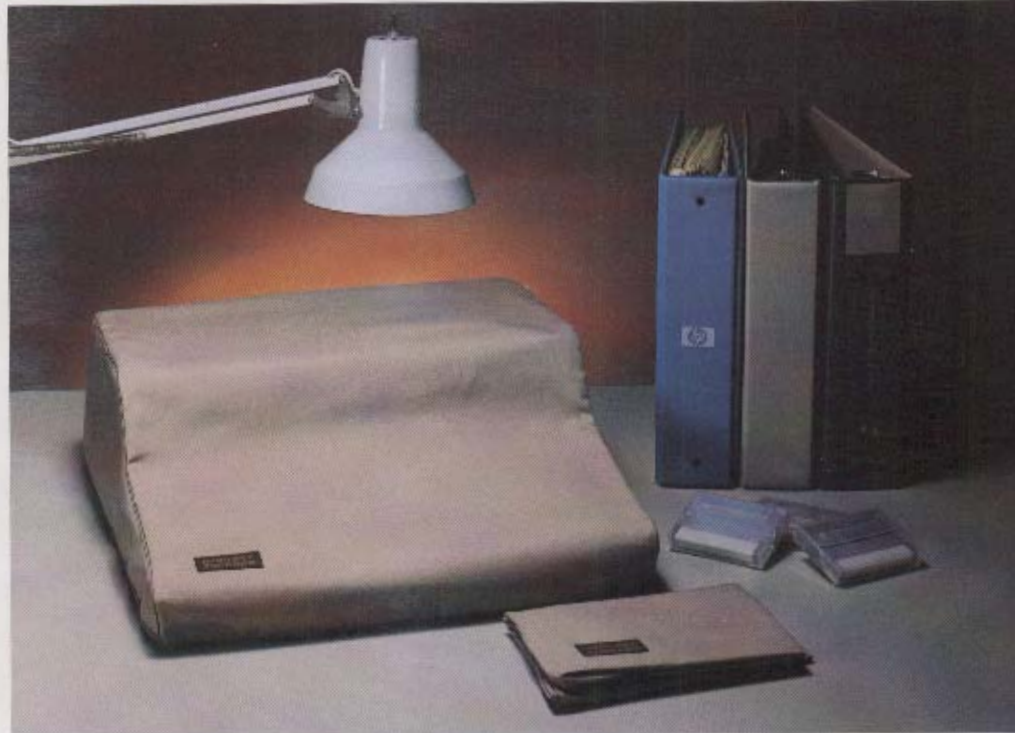
## Dust covers

### HP custom covers for your valuable computer equipment.

**Protects equipment—saves you money.** These protective cloth covers keep dust, dirt, and food away from the vital internal components of your computer equipment. Repairs are reduced and the operating life of your instrument is extended.

**Looks professional.** Each cover is constructed of durable, dark tan cloth—for a professional look in any workplace. When your computer equipment is in use, these covers fold neatly and easily into a compact bundle for storage in a drawer.

**Perfect fit.** Each cover is custom designed to provide a perfect fit to your equipment. Special rear cut-outs allow for routing of power and interconnect cables. These protective covers are a wise investment in the future of your equipment. Use the chart below to order a cover for each of your computer products listed below.



*Custom HP covers—the professional look in equipment protection.*

### Dust covers for terminals, plotters, and printers

HP product model no.	Dust cover part no.
2382	92250A
262X	92250B
264X	92250C
7220, 7221, 9872A/B	9222-0564
7220, 7221, 9872C	9222-0742
7220, 7221, 9872S	9222-0681
7220, 7221, 9872T	9222-0741
7225B	9222-0635
7240A/7245B	9222-0607
7470A	92250N
82905A/B	92250T

### Dust covers for personal and desktop computers

HP product model no.	Dust cover part no.
HP-83/85	82948A
HP-87	82955A
HP 125	92250B
9825A/B/S/T	92251H ..... (Replaces 9222-0495)
9826A	92251J ..... (Replaces 9222-0817)
9835A	92251K ..... (Replaces 9222-0594)
9835B	92251H ..... (Replaces 9222-0495)
9845B Opt. 1XX	92251M ..... (Replaces 9222-0592)

Note: Please make sure that your computer equipment is turned off before placing dust covers on the equipment.



## Carrying cases



### Protection for those on the go!






**Easy transport.** Each soft-vinyl carrying case features cushioned padding to protect your valuable computer equipment. These cases are designed for "hand-carrying" transport (not suitable for shipping).

**Perfect fit.** Each case is custom designed to provide a perfect fit to your computer equipment.







**Quality construction.** High-quality, heavy-gauge vinyl makes these cases strong and durable. If you're on the go, you and your HP computer equipment deserve these protective carrying cases. Use the chart below to order a carrying case for each of your computer products listed below.

**Carrying case styles** (see photo at left); **style A**—far left; **style B**—center; **style C**—top right (white); **style D**—bottom right.

### Carrying cases for terminals and plotters

HP product model no.	Carrying case part no.	Carrying case style
2382A	13269B*	A
7220, 7221, 9872B/C	 1540-0480	B
7225B, 7470A	 1540-0560	B
7240A, 7245B	 1540-0558	B
9111A/T	 1540-0685	B
9874	 1540-0555	B

### Carrying cases for personal and desktop computers

HP product model no.	Carrying case part no.	Carrying case style
HP-83/85	13269A*	C
HP-83/85	82933A	D
9825A/B/S/T	 13269M ... (Replaces 98025A)	B
9835 (computer)	 13269M ... (Replaces 98025A)	B
9835 (CRT)	 13269R ... (Replaces 09845-64404)	B
9845 B/C Opt. 175, 275, 280 (computer)	 13269Q ... (Replaces 1540-0491)	B
9845B Opt. 175 (CRT)	 13269R ... (Replaces 1540-0492)	B
9845B/C Opt. 275, 280 (CRT)	 13269S ... (Replaces 1540-0669)	B

\*Shoulder strap design

Note: These cases are designed for hand-carrying transport (not suitable for shipping).





## Cleaning kits



1. 92193A; 2. 92193C; 3. 92193H; 4. 92193M; 5. 92193V; 6. 92193S; 7. 92193Y.

### Cleaning kits and components for preventive maintenance

Take care of your equipment with the HP Family of Cleaning Kits and Components. Our new kits fill the maintenance needs demanded with your regular operation. You can improve equipment performance by reducing contamination and static. Simply select the appropriate kits for your applications and supplement them with HP accessory cleaning components.

**92193A/B Flexible disc drive head cleaning kits.** See page 5.

### Print wheel clean kit

HP introduces a revolutionary cleaner for your valuable print wheels. Keep your print characters sharp and smudge free without going through a messy cleaning job. Using the HP Print Wheel Clean Kit is a quick and easy process. Simply attach the wheel to the interchangeable wheel holder, then apply cleaning solution to the element pad, close the lid and give the outside knob a few turns. That's all there is to the safe and regular maintenance of your Daisy wheels.

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

**NEW 92193D Print wheel clean kit refill.** Included are two 4-oz. bottles of cleaning solution and two cleaner element pads. Each element pad is good for approximately 20 cleanings.

**NEW 92193H Magnetic head clean kit.** Prolong tape head life and minimize read/write errors by periodically inspecting your mag tape visually and by using this kit regularly. Regular use reduces dust and oxide buildup. Contains two 4-oz. bottles of cleaning solution, 50 lint-free wipes, ten plastic swabs with urethane foam tips and one easy-pour dispensing cap.

**NEW 92193M Master clean kit.** This kit contains all the components necessary for cleaning mag tape and disc drive heads, capstans and guides, terminal screens, printers and all equipment surfaces. Included are one 4-oz. bottle of mag head cleaning solution, one 4-oz. bottle of anti-static solution, one 4-oz. bottle of screen cleaning solution, 10 plastic swabs with soft urethane foam tips, 1 font brush, 16 screen-clean wipes, 50 lint-free wipes, 2 pump spray tops and instructions.

**NEW 92193S Anti-static kit.** This kit is to be used wherever static charges pose a problem to your HP equipment. Contains six 4-oz. bottles of anti-static spray and five 8 x 8 in. lint-free anti-static wipes.

**NEW 92193V Video clean kit.** Clean your CRT terminal screens and other glass surfaces with the two 4-oz. bottles of screen-cleaning solution, fifty 3 x 5 in. lint-free wipes and one easy-pour dispensing cap.



## Accessory cleaning components

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.

**NEW 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. 3 x 5 in. (7.6 x 12.7 cm) each.

**NEW 92193X Cleaning solution.** A box of six 4-oz. bottles. Use with cleaning swabs and compressed air on mag tape drive and flexible disc drive read and write heads, capstans and guides. Safe on all magnetic media surfaces.

**NEW 92193Y Compressed air cleaner.** A box of two 8-oz. 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.

**9300-0468 Box of 50 lint-free swabs with wood handles.** See page 9.

**9300-0767 Box of 50 lint-free swabs with plastic handles.** See page 9.

## Miscellaneous



12575C Cordless tape winder

### Cordless tape winder

**12575C Tape winder** has no power cord to get in your way, yet you save the expense of replacing batteries. It will operate at least 30 minutes without recharging. Input voltage to the recharger is switchable 115/230 Vac, 50-60 Hz. Winder has "touch-to-operate" trigger switch, anodized aluminum tape plate with 3 pins, and comes with its own recharger/holder.



92173Q Data printout carrier

**NEW 92173Q Data printout carrier.** Don't arrive at important meetings with folded and mutilated printouts. Use HP's convenient data carrier. It holds up to

2.5 in. of printout (14.9 x 11 in.) or other reports. Constructed of sturdy brown vinyl with zipper and carrying handles. Order several and save.

### Optical mark reader cards

Clock marks black non-reflective ink; all other information reflective red ink.

**9320-2072 Box of 2000 general-purpose, 80-column cards.**

**9320-2074 Box of 2000 general-purpose, 40-column cards.**

**9320-2051 Box of 2000 educational basic, 37-column cards.**

### Program coding forms

Package of 5 pads, 500 sheets total, 3-hole punched (13.5 x 11 in.).

**5080-6595 (Fortran)**

**5080-6596 (Assembler)**

**5951-4465 (Cobol)**

### RPG coding forms

Used with HP systems having RPG capability. All are 8.5 x 11 in. except as noted. Alternating shaded fields help eliminate line shifting while coding. Each pad contains 50 sheets.

**92168F** One pad each of **C** (Calculating), **E** (File Extension), **H** (Control), **I** (Input), **O** (Output) forms and one pad printer layout forms. (8½ x 14 in.)

### Printer layout forms

**92168G Printer layout forms.** Package of 10 pads, 500 sheets total (8.5 x 14 in.). Same price and quantity discounts as 92168F above.

**02608-60091 Printer layout forms.** Package of 5 pads, 250 sheets total (11 x 17 in.) includes vertical format control area.

### VFU tape accessories

Following supplies are used with HP 2613A, 2617A, 2618A, 2619A Printers.

**4114-0371 Package of 25 blank 12-channel VFU tapes,** marked for 66 lines/page up to 140 lines. Self-adhesive.



92231A Tape punch and splicer

**92231A 12-Channel VFU tape punch and splicer.** Now punch and splice your 12-channel tapes easily and efficiently with HP's new tape punch. Tape moves easily through the punch with bidirectional control knob. Punch will prepare either 6 or 8 lines-per-inch control tapes. Splicing is made easy with the precision registration pins and hold-down arms on the punch. Find out how easy it is to punch and splice VFU tapes. Order one today. (Supersedes 9164-0023)

**Pre-punched VFU tape.** See listed under appropriate HP Printer.

**2894A Card reader punch**  
**9260-0373 Individual ink cartridge.**





### Improved HP-IB (IEEE-488) cables

**10833A/B/C/D HP-IB cables** have been improved for better performance in HP Systems. The cable itself is double shielded with additional shielding on the inner layers.

Other major enhancements are:

- Improved crosstalk reduction between control and data lines
- <150PF/metre capacitance
- Ten times better cable flex life
- Overlapping seam on connector shell for better shielding and grounding characteristics
- Nickel-plated aluminum shell to prevent corrosion
- Stainless steel connecting screws with conductive coating for better electrical contact

The improved cables are completely compatible with and can be used in combination with regular HP-IB cables. However, the continuity and effectiveness of the shielding will be affected.

Length	Regular cable (other HP equivalent)	RFI shielded cable (other HP equivalent)
3.3 ft. (1 m)	<b>31389A</b> (10631A)	<b>10833A</b> (45529A)
6.6 ft. (2 m)	<b>31389B</b> (10631B)	<b>10833B</b> (45529B)
13.2 ft. (4 m)	<b>31389C</b> (10631C)	<b>10833C</b> —
1.65 ft. (0.5 m)	—	<b>10833D</b>

**31389A/B/C.** Many applications, such as plotting data or logging data from instruments, have low data transfer rates and often do not require maximum RFI shielding. In these cases, the regular HP-IB cables will perform well—at a substantial savings. Refer to product specifications to determine which HP-IB cable to use.

### HP-IL cables

The Hewlett-Packard Interface Loop (HP-IL) is a bit-serial interface that combines low power, small size and low cost. With the small, 2-wire cable you can interface as many as 30 devices with up to 10 metres of cable between each device. Use with the HP-85, 82938A HP-IL interface and HP 41C, 82160A HP-IL interface. This would allow you to link your HP 41 Hand-held Calculator to an HP Series 80 Personal Computer System. Many other HP-IL-designated devices can also be linked to the HP Series 80 Personal Computer. For more information on HP-IL, see the book *HP-IL System: An Introductory Guide to Hewlett-Packard Interface Loop* **92233A**, page 54.

HP-IL cable number	Length
<b>NEW</b> 82167A	1.65 ft. (.5 m)
<b>NEW</b> 82167B	3.3 ft. (1 m)
<b>NEW</b> 82167D	16.7 ft. (5 m)

### HP-86 cables

**NEW** **82957A HP-86 4-ft. (1.2-m) printer cable.** 36-Pin Connectors both ends.

For use with HP 82905B printer, options 242, 342, 442.

**NEW** **92220M HP-86 25.4-in. (.6-m) monitor cable.** Coaxial connectors both ends. For replacement of original HP-86 monitor cable or for addition of an extra monitor.

### Cables for the HP 125 personal office computer

The following peripherals can be connected to the HP 125 Computer using the 10833A/B (45529A/B) HP-IB cables. Only one 10833B (45529B) cable can be used in each HP 125 system configuration. Refer to the HP 125 Price/Configuration Guide for supported configurations.

#### DISC STORAGE:

- 82901M • 9134A
- 82902M • 9135A
- 9895A

#### PRINTERS:

- 2631B Opt. • 2671A
- 046 (HP-IB) • 82905B

#### PLOTTERS

- 7225B • 7470A
- w/17601A • 9872C

The following (RS-232C interfaced) HP printers may be connected to port 2 of the HP 125 Computer with the 13242-60010 (13242G)\* cable:

- 2601A • 2631B

The 13242-60011 (13242H)\* cable may also be useful for connecting the HP 125 to a non-HP printer.



The HP 125 Computer can be connected to one or two computers directly or through modems with the following RS-232C cables. See pages 31-33 for details.

**FIRST COMPUTER (port 1)**

- 13222-60001 (13222N)\*
- 13222-60002 (13222M)\*
- 13222-60003 (13222C)\*
- 13222-60005 (13222Y)\*

**SECOND COMPUTER (port 2)**

- 13242-60001 (13242N)\*
- 13242-60002 (13242M)\*
- 13242-60005 (13242Y)\*

For cabling information on other configurations, see the HP 125 documentation, or call your local HP Sales Office (page 68).

\* Order the 10-digit part number for fast delivery replacement cables. Order the number in parentheses for a cable for a new system. See page 31 for cable descriptions and prices.

### Cut-to-length cable

(Order connectors separately.)

The 92179A and 92179B cables can be used with our Terminal and RS-232C Connector Kits described below, and others.

**92179A Unshielded, 12-wire/22-gauge cable.** (Minimum order is 10 metres. Maximum continuous length is 450 metres.)

**92179B Unshielded, 25-wire/26-gauge cable.** (Minimum order is 10 metres. Maximum continuous length is 300 metres.)

**92179C Shielded, 3-wire/24-gauge cable.** Can be used with the 92224A/B connector kits described below, and others. (Minimum order is 30 metres. Maximum continuous length is 4000 metres.)

**92179D Shielded, 5-wire/24-gauge cable.** Can be used with the 92225A/B connector kits described below, and others. (Minimum order is 30 metres. Maximum continuous length is 4000 metres.)

### Advanced terminal processor connector kits

Each kit contains 4 complete connector assemblies used to build your own custom-length HP 3000-series 64 ATP cables for the RS-232C or RS-422 interface. Order bulk cable separately; see 92179C and 92179D.

These connectors require an HP 92229A crimp tool to crimp the connector shield can to the wire shield (see below).

**92224A Kit of four each 3-pin male connectors** for ATP RS-232C interface. (See illustration 6M, page 31).

**92224B Kit of four each 3-pin female connectors** for ATP RS-232C interface. (See illustration 6F, page 31).

**92225A Kit of four each 5-pin male connectors** for ATP RS-422 interface. (See illustration 7M, page 31).

**92225B Kit of four each 5-pin female connectors** for ATP RS-422 interface. (See illustration 7F, page 31).



Crimp tool for ATP connectors

**NEW 92229A Crimp tool for ATP connectors.** This precision-machined hand crimp tool is needed to crimp the RF shield included in the 92224A/B and 92225A/B connector kits to the cable shield.

### Terminal connector kits

Make up your own special cables. See 92179A/B for cable.

**5061-1340 Connector for 264X terminals** (see illustration 2, page 31). Contains one 30-pin female hooded edge connector, plus hardware.

**5061-2401 Multipoint connectors for 264X terminals** (see illustrations 4M and 4F, page 31). Contains two complete 14-pin connectors (one male and one female) plus hardware.

**5061-2412 Connector for 262X terminals** (see illustration 1, page 31). Contains one complete 50-pin male connector and hardware. (Use 92178A for 2621B and 2382A Terminals.)

### Terminals cabling manual

**02640-90185** HP has a helpful guide which provides detailed information (including connector pin assignments and maximum cable lengths) for more than 35 different cables used with HP terminals. Ask for "Data Terminals Cabling Manual, HP publication number 02640-90185."

### Maximum cabling distances

To ensure proper performance, be sure to consult the manuals for equipment you are connecting via cable. Check closely the specification for maximum cable length.

### Universal RS-232C connector kits

Each kit contains two 25-pin connectors (either 2 male, 2 female or 1 of each), 2 hoods and related hardware. The connectors are gold-plated and the pins are precision-machined for better contact.

**92178A Two male connectors** in kit (see illustration 3M, page 31).

**92178B Two female connectors** in kit (see illustration 3F, page 31).

**92178C One male connector and one female connector** in kit (see illustrations 3M and 3F, page 31).



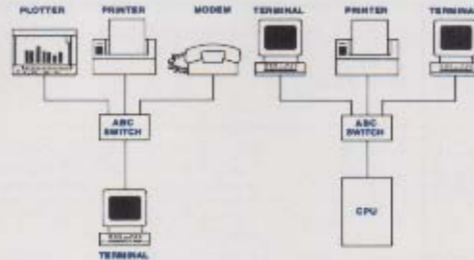


92178S RS-232 ABC switch

**NEW 92178S RS-232 ABC Switch**

Here's an easy way to switch between your peripherals, CPU ports and data-comm devices without plugging and un-

plugging cables. The 92178S switches between 3 EIA devices (all 24 lines) and your CPU, terminal or printer. Typical applications are shown in the following diagrams.








These 3-way switches feature:

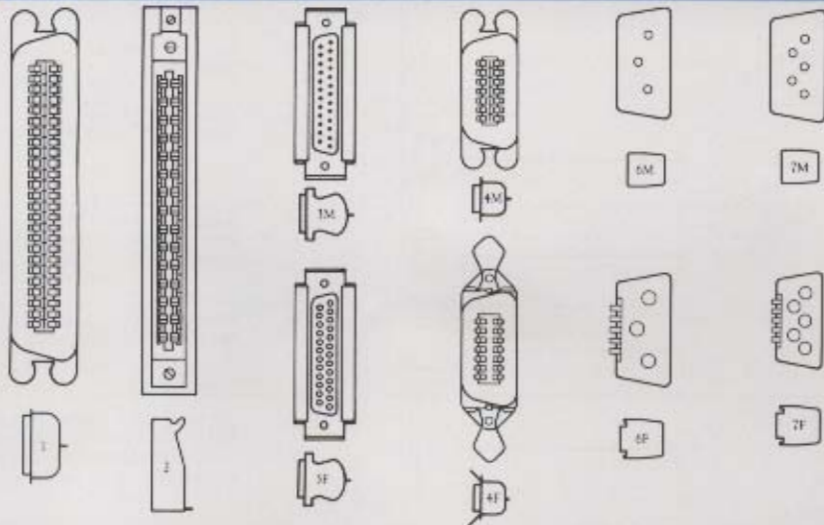
- PC board construction for longer life and greater reliability
- Sealed ceramic gold-plated switch for smooth operation
- Monitor LED lamps which show you status of six signals: TD, RD, RTS, CTS, DSR and DTR.

NOTE: This switch is a customer-installable device and does not qualify as an item which can be included under Hewlett-Packard systems service contracts. NOT AVAILABLE IN EUROPE.

**Power cords**











Plug	Voltage rating	Part number
	125v	<b>8120-1348</b> Black <b>8120-1378</b> Grey
	250v	<b>8120-1351</b> *
	250v	<b>8120-1369</b> *
	250v	<b>8120-1689</b> *
	250v	<b>8120-2104</b> *

\*Order from HP sales office.

**Connector diagrams**

1 50-pin male (for 262X Terminals); 2 30-pin female (for 264X Terminals); 3M (male) and 3F (female) standard 25-pin RS-232C connectors; 4M (male) and 4F (female) 14-pin multipoint cable connectors. 5 is a 48-pin connector, not shown. 6M (male) and 6F (female) 3-pin connectors for HP 3000 series 64 ATP RS-232 interface. 7M (male) and 7F (female) 5-pin connectors for HP 3000 series 64 ATP RS-422 interface. Above connectors not to scale.



























**RS-232C cables**

Description	Connector	Connector	Length	Wired for/Connects to	Order this cable # with new system	Order this number for replacement cable
Extension cables			16.7 ft. (5 m)	Pins 1-25 wired end-to-end.	(30062C)	31391A
			33.4 ft. (10 m)		—	31391B
			50 ft. (15 m)		(30062C, Opt 001)	31391C
			100 ft. (30 m)	Pins 1-25 wired end-to-end; unshielded.	(30062C, Opt 002)	30062-60012
			12.5 ft. (3.8 m)	Pins 1-8, 11, 12, 19, 20, 22, 23, 25 wired end-to-end.	—	02631-60065
			25 ft. (7.6 m)	Hardwire extension; pins 2, 3, 7 wired end-to-end.	(30062D)	30062-60018
			50 ft. (15 m)		—	92215A
			16.7 ft. (5 m)	Adapter cable between HP 3000/64 ATP and existing RS-232C terminal cable.	(30152A)	30152-60001
			50 ft. (15 m)	Extension cable for HP 3000/64 ATP RS-232C interface.	(30153A)	30153-60001

Connectors 1, 2, 3M, 3F, 4M, 4F, 6M, 6F, 7M, 7F see page 31; \*\*Block RS-232 connector.

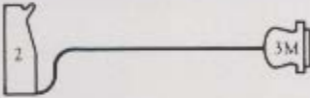

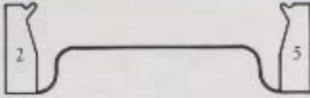

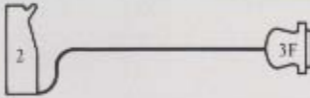

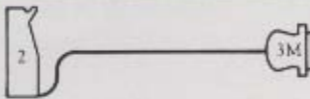

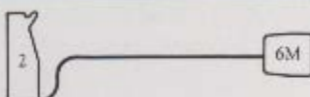

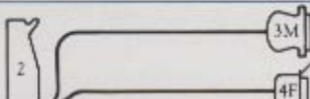

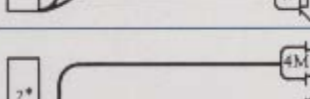

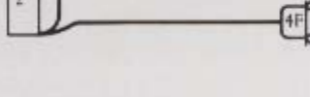

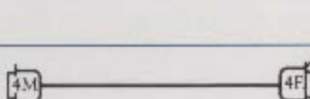



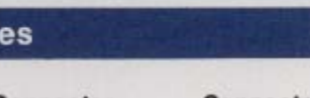



## RS-232C cables







Description	Connector	Connector	Length	Wired for/Connects to	Order this cable # with new system	Order this number for replacement cable
Modem cables			25 ft. (7.6 m)	Connects HP 3000 to modem types 103 and 202S.	(30062B)	30062-60020
			50 ft. (15 m)		(30062B Opt 001)	30062-60021
Modem eliminator cables			5 ft. (1.5 m)	Bypasses modem and connects 13232P to HP 1000, HP 3000 or another terminal. Unshielded.	(13232U)	5061-2403
			16.7 ft. (5 m)	Use with 13222M or 13232M on HP 300. Shielded.	—	31390A
Cables for 246X/267X-series terminals (port 1) and HP 125 computer [Not for 2621B or 2382A terminals.]			16.7 ft. (5 m)	U.S. modems 103A, 202C/D/S/T, 212A, Vadic 3400 signal-compatible acoustic couplers. Also HP 1000 & 3000 System multiplexers.	(13222N)	13222-60001
			50 ft. (15 m)		—	92217A
			16.7 ft. (5 m)	European 103- or 202C-type modems. Shielded.	(13222M)	13222-60002
			50 ft. (15 m)		—	92217B
			6.6 ft. (2 m)	Standard RS-232C communications.	(13222C)	13222-60003
			50 ft. (15 m)		—	92217C
			16.7 ft. (5 m)	3-wire cable with EMP protection for terminal from lightning-induced transients.	(13222Y)	13222-60005
			50 ft. (15 m)		—	92217D
			16.7 ft. (5 m)	RS-232C interface cable for HP 3000/64 ATP.	(13222X)	92217E
Cables for 262X/267X-series terminals (port 2), 2621B, 2382A, and HP 125 computer			16.7 ft. (5 m)	HP 1000, 3000 Systems; U.S. modems 103A, 202C/D/S/T, 212A, Vadic 3400 modems; acoustic couplers (signal compatible only). Shielded.	(13242N)	13242-60001
			50 ft. (15 m)		—	92218A
			16.7 ft. (5 m)	European 202C-type modems. Shielded.	(13242M)	13242-60002
			50 ft. (15 m)		—	92218B
			16.7 ft. (5 m)	3-wire cable with EMP protection for terminal from lightning-induced transients.	(13242Y)	13242-60005
			50 ft. (15 m)		—	92218C
			16.7 ft. (5 m)	RS-232C interface cable for HP 3000/64 ATP.	(13242X)	92218D
			16.7 ft. (5 m)	RS-232-compatible serial printer such as 2601/2631/2635. Shielded.	(13242G)	13242-60010
			16.7 ft. (5 m)	RS-232-compatible serial printers. Shielded.	(13242H)	13242-60011
			16.7 ft. (5 m)	RFI-filtering modem bypass cable for 2621B and 2629L terminals.	(40242Z)	40242-60002
			16.7 ft. (5 m)	RFI-filtering extender cable for 2621B and 2629L terminals.	(40242C)	40242-60003
			16.7 ft. (5 m)	RFI-filtering modem cable for 2621B and 2629L terminals.	(40242M)	40242-60004
Cables for 264X-series terminals			15 ft. (4.5 m)	U.S. modems 103A, 202C/D/S/T; signal-compatible acoustic couplers. Also HP 1000, 2000 & 3000 System multiplexers.	(13232A)	02640-60043



## RS-232C cables

Description	Connector	Connector	Length	Wired for/Connects to	Order this cable # with new system	Order this number for replacement cable
Cables for 264X-series terminals (cont.)			50 ft. (15 m)	U.S. modems 103A, 202C/D/S/T; signal-compatible acoustic couplers. Also HP 1000 & 3000 System multiplexers.	—	92219A
			15 ft. (4.5 m)	U.S. modems 103A, 202C/D/S/T, 212A, Vadic 3400; signal-compatible acoustic couplers. Also HP 1000 & 3000 System multiplexers.	(13232N)	02640-60131
			50 ft. (15 m)		—	92219B
			15 ft. (4.5 m)	European 202C-type modems.	(13232M)	5061-2409
			50 ft. (15 m)		—	92219C
			50 ft. (15 m)	HP 1000/21MX computers with HP 12531D or 12880A interfaces.	(13232B)	02640-60058
			5 ft. (1.5 m)	Standard Async D.C. to non-HP computer.	(13232C)	02640-60059
			50 ft. (15 m)		—	92219D
			15 ft. (4.5 m)	3-wire cable with EMP protection for terminal from lightning-induced transients.	(13232Y)	02640-60218
			50 ft. (15 m)		—	92219E
Multi-point 1st terminal			16.7 ft. (5 m)	RS-232C interface cable for HP 3000/64 ATP.	(13232X)	92219F
			15 ft. (4.5 m)	U.S. Modems 103A, 202C/D/S/T; signal-compatible acoustic couplers. Also HP 1000, 2000 & 3000 multiplexers.	(13232P)	02640-60132
			15 ft. (4.5 m)			
				To 2nd HP 264X terminal.		
			15 ft. (4.5 m)	Preceding 264X terminal.	(13232Q)	02640-60133
			15 ft. (4.5 m)	Next 264X terminal (or open).		
			15 ft. (4.5 m)	Power protect cable. If power fails on terminal to which connected, the terminals which follow can still operate.	(13232T)	02640-60151
			15 ft. (4.5 m)	Preceding 264X terminal.		
Multi-point 2nd + terminals				Next 264X terminal.		
			100 ft. (30 m)	Multi-point extension cable.	(13232R)	02640-60134
			250 ft. (77 m)		—	92220A
			500 ft. (154 m)		—	92220B
			1000 ft. (308 m)		—	92220C

## RS-422 cables

Description	Connector	Connector	Length	Wired for/Connects to	Order this cable # with new system	Order this number for replacement cable
RS-422 Extension cable			100 ft. (30 m)	Extender cable for connecting HP 3000/64 ATP and RS-422 interface cable.	(30154A)	30154-60001
262X Terminals			16 ft. (5 m)	5-wire cable for terminal to HP 3000/64 ATP, RS-422.	NEW (13222P)	92216A
264X Terminals			16 ft. (5 m)	5-wire cable for terminal to HP 3000/64 ATP, RS-422.	NEW (13232I)	92216B



## Series 80

## Series 10

## Series 40

## CONTENTS: Personal Computer News

## Page

PC-1	<b>Micro (3½-inch) flexible discs</b>
PC-2	<b>Printer supplies &amp; accessories</b>
PC-3	<b>Handheld calculators &amp; computers</b>
PC-4	<b>Series 10 professional calculators</b>
	<ul style="list-style-type: none"> <li>• HP-10C scientific</li> <li>• HP-11C advanced scientific</li> <li>• HP-12C advanced financial</li> <li>• HP-15C advanced scientific w/matrices</li> <li>• HP-16C for computer science &amp; digital electronics</li> </ul>
PC-5	<b>Series 40 handheld computers</b>
PC-6	<ul style="list-style-type: none"> <li>• HP-41C handheld computer</li> <li>• HP-41CV handheld computer with 5X memory</li> </ul>
PC-7	<ul style="list-style-type: none"> <li>• Memory, extension, interface modules</li> <li>• Dedicated peripherals</li> <li>• Software: application pacs</li> <li>• Software: solution books</li> </ul>
PC-8	<b>HP-IL peripherals &amp; accessories</b>
PC-9	<b>Series 70 portable computers</b>
	<ul style="list-style-type: none"> <li>• Accessories</li> <li>• Software: solution books</li> </ul>
PC-10	<b>Series 80 personal computers</b>
PC-11	<ul style="list-style-type: none"> <li>• Speech synthesis module</li> </ul>
PC-12	<ul style="list-style-type: none"> <li>• Revised software product numbers</li> <li>• Software: new packages</li> </ul>
PC-13	<b>Series 100 personal office computers</b>
	<ul style="list-style-type: none"> <li>• Revised software product numbers</li> <li>• Software: new packages</li> </ul>
PC-14	<b>Series 200 personal technical computers</b>
	<ul style="list-style-type: none"> <li>• Revised software product numbers</li> <li>• Software: new packages</li> </ul>
PC-15	<b>Ergonomic/convenience accessories</b>
	<ul style="list-style-type: none"> <li>• Display tilt/swivel units</li> <li>• Keyboard space-saver park</li> <li>• Keyboard palm rest</li> </ul>
PC-16	<b>HP 9000 technical 32-bit computers</b>
	<ul style="list-style-type: none"> <li>• Flexible discs &amp; thermal papers</li> <li>• Workstation tables</li> </ul>

## HP personal computers: The right tool for the job!

A skilled surgeon obviously requires different tools than an auto mechanic. And in a similar way, Hewlett-Packard has long recognized that individual engineers, scientists and business professionals each have computational requirements unique to their particular discipline or application.

That's why HP offers an exceptionally broad range of personal computers, which are arranged in six series:

- **Series 10 professional calculators**
- **Series 40 handheld computers**
- **Series 70 portable computers**
- **Series 80 personal computers**
- **Series 100 personal office computers**
- **Series 200 personal technical computers**

And because HP is committed to personal computers in the broadest sense, there are many new complementary products such as software packages, peripherals and accessories which have recently been introduced, and which are summarized on the following pages.

### Why this supplement?

In particular, we'd like to call your attention to several reasons for this special supplement to the *HP Computer Users Catalog* (Autumn/Winter 82/83 edition):

1. The introduction of 3½-inch micro flexible discs as a new HP standard for compact, portable media.

2. The recent addition of many new accessories and supplies items for HP personal computers.
3. A change to the way in which HP personal computer software packages are numbered, effective 1 November 1982. (Affects all Series 80, 100 and 200 software — please see new product numbers on pages PC-10 through PC-14.)
4. The addition of HP handheld and portable computer supplies and accessories, which will be regularly included in future issues of the *HP Computer Users Catalog*.
5. The addition of a reference listing of the HP handheld calculators and computers (and related peripherals).  
In all, there are more than 100 new products listed on the following pages of this special supplement.

### Compact power: New 3½-inch micro flexible discs

HP's new 9121D/S mass storage systems for Series 80, 100 and 200 personal computers save precious space on your desk or lab bench. Yet, each 3½-inch micro flexible disc has a full 270 Kbyte capacity; two discs in the 9121D dual system can give you 540 Kbytes of formatted storage at double the speed of many 5¼-inch systems!

Each disc is uniquely packaged in a hard polymer housing (instead of the





Series 100



Series 200



Series 70

traditional vinyl jacket) which protects the media from damage due to jacket bending or improper filing. A protective metal guard slides over the read/write opening when you're not using the disc. And the special hard disc center permits accurate and reliable high-density recording, since the disc is consistently centered precisely on the read/write head.

Since all flexible discs wear out eventually, HP's drives have an exclusive *Media Monitor* to track each disc's use and tell you when to replace it; there's no more worry about losing data on overused media.

HP is committed to this compact media as its new standard, and major software packages (see pages PC-10 through PC-14) are already available on 3½-inch micro flexible discs.



**NEW 92191A Box of 10 single-sided 3½-inch micro flexible discs** (unformatted). Includes write-protect and color-coded file labels.

**NEW 92191F Portable album file for 3½-inch micro flexible discs.** Keep up to 20 discs secure and at your finger tips in this vinyl-covered file. Velcro cover fastener for fast and easy access. Re-filing is aided by color-coded index strips for each disc pocket. Outside spine has index card for listing discs.

### 2602A Daisywheel printer

**NEW 92151H Box of 12 Multistrike ribbon cartridges.** High capacity; up to 450,000 characters per cartridge, depending on application. Prints black.

**NEW 92262-series USASCII print wheels.** These easy-change plastic wheels are notchless and hubless, and are automatically aligned by the printer when dropped in place. Pitch is 10 or 12 (even-spaced characters per inch) as indicated; PS indicates proportionally spaced wheel.

Courier 10 .... 92262A	Prestige
Prestige	Elite 12 ..... 92262E
Pica 10 ..... 92262B	Letter
Courier 12 .... 92262D	Gothic 12 .... 92262F
	Bold Face PS 92262G

**NEW 92263-series international wheels.** Like USASCII wheels above, but with character sets as indicated:

**United Kingdom**  
 Courier 10 .... 92263A  
 Prestige  
 Pica 10 ..... 92263B  
 Prestige  
 Elite 12 ..... 92263C  
 Courier 12 .... 92263D  
 Bold Face PS . 92263E

**Swedish/Finnish**  
 Courier 10 .... 92263M  
 Bold Face PS . 92263N

**French**  
 Courier 10 .... 92263J  
 Prestige  
 Elite 12 ..... 92263K  
 Bold Face PS . 92263L

**German**  
 Pica 10 ..... 92263F  
 Letter  
 Gothic 12 .... 92263G  
 Square PS .... 92263H

**Norsk/Danish**  
 Courier 10 .... 92263P  
 Bold Face PS . 92263Q

**Spanish**  
 Courier 10 .... 92263R  
 Bold Face PS . 92263S

### Sheet feeder paper trays

**NEW** Extra trays for new HP 26010D Sheet Feeder, which fits HP 2601A Daisywheel Printer. Fast way to change letterheads, different colored papers, etc.; boosts productivity. For printing charts or other data across long dimension of paper, use "landscape" trays.

**92177J** (8.5 x 11 in.)  
**92177K** (landscape: 11 x 8.5 in.)  
**92177L** (legal: 8.5 x 14 in.)  
**92177M** (210 x 297 mm/A4)  
**92177N** (landscape: 297 x 210 mm/A4)



## Comparison chart: HP handheld calculators/computers

This chart summarizes features and functions found on Series 10 slim-line calculators and Series 40 handheld computers. All units use time-proven RPN logic, and have

high-resolution liquid crystal displays (LCD) that are easy to read in your office or lab, or in bright sunlight outdoors. See the following pages for more details.

Features	Series 10					Series 40
	Financial	Computer Science	Scientific			
	HP-12C	HP-16C	HP-10C	HP-11C	HP-15C	HP-41C/CV
<b>Operating Features</b>						
RPN logic system (with 4-register stack)	•	•	•	•	•	•
Error recovery (last x)	•	•	•	•	•	•
Maximum number of storage registers	20	101R	10	21	67	919*
Continuous Memory	•	•	•	•	•	•
Maximum number of digits displayed	10	10F	10	10	10	10
Number of digits used in computation	10	10D	10	10	10	10
Rechargeable batteries/AC recharger	•	•	•	•	•	•
Long-Life disposable batteries	•	•	•	•	•	•
<b>Software Support</b>						
Application Pacs (with modules)	•	•	•	•	•	•
Solution Books/Handbooks	•	•	•	•	•	•
Users' Library programs	•	•	•	•	•	•
<b>Accessory Support</b>						
Memory Modules	•	•	•	•	•	•+
Extended Memory Modules	•	•	•	•	•	•
Time Module	•	•	•	•	•	•
Multipurpose rechargeable battery pack	•	•	•	•	•	•
<b>General Features</b>						
One-year limited warranty	•	•	•	•	•	•
Display separates thousands	•	•F	•	•	•	•
Diagnostic self-check	•	•	•	•	•	•
Error codes/messages	•	•	•	•	•	•
Redefinable keys	•	•	•	•	•	•
Alpha mode/display/keyboard	•	•	•	•	•	•
Status annunciators	•	•	•	•	•	•
Automatic power off	•	•	•	•	•	•
Audible tones	•	•	•	•	•	•
<b>Programming Features</b>						
Maximum number of program lines	99	203	79	203	448	6,433*
Shared program/storage memory	•	•	•	•	•	•
Alpha program labels	•	•	•	•	•	•
Single-character program labels	•	•	•	•	•	•
Numeric program labels	•	•	•	•	•	•
Program review (single- and backstep)	•	•	•	•	•	•
Insert/delete editing	•	•	•	•	•	•
GO TO	•	•	•	•	•	•
Levels of subroutines	•	•	•	•	•	•
Conditional tests	2	8	2	8	12	10
Flags	•	•	•	•	•	•
Pause	•	•	•	•	•	•
Indexed looping (DSE, ISG)	•	•	•	•	•	•
Indirect control of:	•	•	•	•	•	•
Data storage/recall	•	•	•	•	•	•
Storage register arithmetic	•	•	•	•	•	•
Branching	•	•	•	•	•	•
Looping	•	•	•	•	•	•
Display Format	•	•	•	•	•	•
Flags	•	•	•	•	•	•
Integer/fraction truncation	•	•	•	•	•	•
Alpha string manipulation	•	•	•	•	•	•
<b>Dedicated Input/Output Devices</b>						
Card Reader	•	•	•	•	•	P
Printer/Plotter	•	•	•	•	•	P
Optical wand	•	•	•	•	•	P
<b>HP-IL Peripherals</b>						
Digital Cassette Drive	•	•	•	•	•	P
Thermal Printer/Plotter	•	•	•	•	•	P
Impact Printer (80-column)	•	•	•	•	•	P
HP-IL/GPIO Interface	•	•	•	•	•	P
HP-IL Video Interface	•	•	•	•	•	P

Features	Series 10					Series 40
	Financial	Computer Science	Scientific			
	HP-12C	HP-16C	HP-10C	HP-11C	HP-15C	HP-41C/CV
<b>General Arithmetic Features</b>						
$+$ , $-$ , $\times$ , $\div$ , $\sqrt{x}$ , $1/x$ , CHS	•	•	•	•	•	•
$\ln x$ , $e^x$	•	•	•	•	•	•
$y^x$ , $\log x$ , $10^x$ , $x^2$ , $\pi$	•	•	•	•	•	•
Absolute value	•	•	•	•	•	•
Storage register arithmetic	•	•	•	•	•	•
<b>Business Features</b>						
Maximum number of dedicated financial registers	5	•	•	•	•	•
Solves for:	•	•	•	•	•	•
Number of periods (n), compound interest(i), present value (PV), payment (PMT), future value (FV)	•	•	•	•	•	•
Simple interest	•	•	•	•	•	•
Amortization (accumulated interest/remaining balance)	•	•	•	•	•	•
Net present value (NPV) and internal rate of return (IRR)	•	•	•	•	•	•
Beginning/end of period selection	•	•	•	•	•	•
Calendar functions	•	•	•	•	•	•
Bond:	•	•	•	•	•	•
Yield-to-maturity	•	•	•	•	•	•
Price	•	•	•	•	•	•
Depreciation (SL, DB, SOYD)	•	•	•	•	•	•
<b>Scientific Features</b>						
Solve (root finder)	•	•	•	•	•	•
Integrate (numerical integration)	•	•	•	•	•	•
Matrix operations	•	•	•	•	•	•
Complex functions	•	•	•	•	•	•
Bit manipulation	•	•	•	•	•	•
Boolean operators (NOT, OR, AND, XOR)	•	•	•	•	•	•
Complement modes (1's, 2's, unsigned)	•	•	•	•	•	•
Number base arithmetic (binary, octal decimal, hexadecimal)	•	•	•	•	•	•
Metric conversions	•	•	•	•	•	•
Trigonometric functions:	•	•	•	•	•	•
Modes (degrees, radians, grads)	•	•	•	•	•	•
$\sin$ , $\sin^{-1}$ , $\cos$ , $\cos^{-1}$ , $\tan$ , $\tan^{-1}$	•	•	•	•	•	•
Hyperbolic and inverses	•	•	•	•	•	•
Rectangular—polar coordinates	•	•	•	•	•	•
Decimal angle—angle in degrees (hrs)/min/sec	•	•	•	•	•	•
Degrees—radians	•	•	•	•	•	•
Fixed and scientific notation	•	•	•	•	•	•
Engineering notation	•	•	•	•	•	•
Automatic under/over flow into scientific	•	•	•	•	•	•
<b>Statistical Functions</b>						
Percent	•	•	•	•	•	•
Percent change	•	•	•	•	•	•
Percent total	•	•	•	•	•	•
Mean/standard deviation (1- or 2-variable)	•	•	•	•	•	•
$n$ , $\Sigma x$ , $\Sigma x^2$ , $\Sigma y$ , $\Sigma y^2$ , $\Sigma xy$	•	•	•	•	•	•
Weighted mean	•	•	•	•	•	•
Linear regression or estimate	•	•	•	•	•	•
Correlation coefficient	•	•	•	•	•	•
Normal distribution	•	•	•	•	•	•
Factorial function	•	•	•	•	•	•
Gamma function	•	•	•	•	•	•
Permutations and combinations	•	•	•	•	•	•
Random number generator	•	•	•	•	•	•

• Built-in feature or function.

+ To be used with the HP-41C only.

\* The HP-41C has 63 registers or 441 program bytes built in (expandable to 922 registers or 6,433 bytes with memory modules and extended memory modules). The HP-41CV has 319 registers or 2,233 bytes built in (expandable to 6,433 bytes).

P Peripheral available.

S Available in software form.

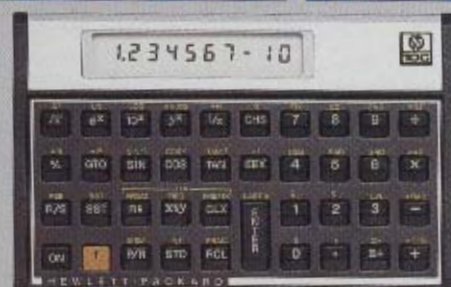
F Using Floating-Point Decimal Mode.

D Ten digits are used in computation when in Floating-Point Decimal Mode. Word size is user-specified in other modes, up to 64 bits.

R 16-bit registers.



## Series 10 professional calculators



HP-10C



HP-11C



HP-12C



HP-15C



HP-16C

HP's SLIM-LINE Series 10 calculators for professionals provide exceptional computing power, in a compact shirt-pocket-sized package. Overall size is a mere 127 x 80 x 15 mm (5 x 3 1/8 x 5/8 in.), and weight is only 113 g (4 oz.).

All Series 10 calculators have powerful built-in keystroke functions and programming abilities. They automatically turn themselves off after several minutes of non-use, for long battery life; a continuous memory retains your programs or other entered data, even when turned off.

There are five models in Series 10: three for engineers and scientists, one for computer science and digital electronics, and one for financial applications.

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### NEW HP-10C programmable scientific.

Features: 79 program lines, conditional branching, trigonometrics, logarithms, rectangular-to-polar conversions, statistics.

### HP-11C advanced programmable scientific.

Features: 203 program lines, insert/delete editing, 5 user-definable keys, trigonometrics, hyperbolics and inverses, statistics.

### NEW 00011-90009 solutions handbook for HP-11C

### HP-12C advanced programmable financial.

Features: Simple and compound interest, time and money functions, amortization, net present value and internal rate of return, bond yield and price, 99 program lines.

### 00012-90009 solutions handbook for HP-12C

### NEW 00012-90015 real estate handbook for HP-12C

### NEW 00012-90022 training guide for HP-12C

### HP-15C advanced programmable scientific with matrices.

Features: matrix functions (up to 64 elements), complex number functions, solve and integrate, 448 program lines, insert/delete editing, 5 user-definable keys.

### 00015-90011 advanced functions manual for HP-15C

### HP-16C programmable for digital electronics and computer science.

Features: Four number base modes (binary, octal, decimal, hexadecimal), four Boolean operators (AND, OR, XOR, NOT), word size specifiable up to 64 bits, bit manipulation, 203 program lines, insert/delete editing.

### Accessories for Series 10 calculators

NEW 82174A replacement soft case (a case is supplied with each new Series 10 calculator).

### Hewlett-Packard: Excellence in handheld calculators

The design and quality of Series 10 products build upon Hewlett-Packard's calculator experience that began in 1972, the year HP introduced the world's first "electronic slide rule," the HP-35.

Since then, many thousands of engineers and scientists—who are evaluated on their ability to provide professional quality solutions to problem situations—have turned to HP for professional-quality machines equal to the task.

And students, preparing for professional careers, have similarly found HP handhelds extremely helpful in their studies and practical laboratory work.

See for yourself. Visit the HP dealer nearest you to try out these remarkable, compact programmable calculators. (Contact your local HP sales office for the name and address of the dealer nearest you.)



## Series 40 handheld computers



HP-41C and HP-41CV Handheld computers

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Both powerful Series 40 handheld computers are identical except the HP-41C has 441 bytes and the HP-41 CV has 2233 bytes of built-in memory. Maximum for either machine is 6433 bytes via add-on memory/extension modules. For other details, see table, page PC-3.

The diagram below suggests the great versatility possible with various modules and peripherals which may be plugged into any of 4 ports on every Series 40 computer.

Both models use a liquid crystal display and RPN logic, and have continuous memory. Size: 79 x 144 x 33 mm (3.1 x 5.7 x 1.3 in.).

### HP-41C Handheld computer

Includes one 82106A memory module, effective 1 February 1982.

### HP-41CV Handheld computer with 5X memory

### Memory, extension & interface modules

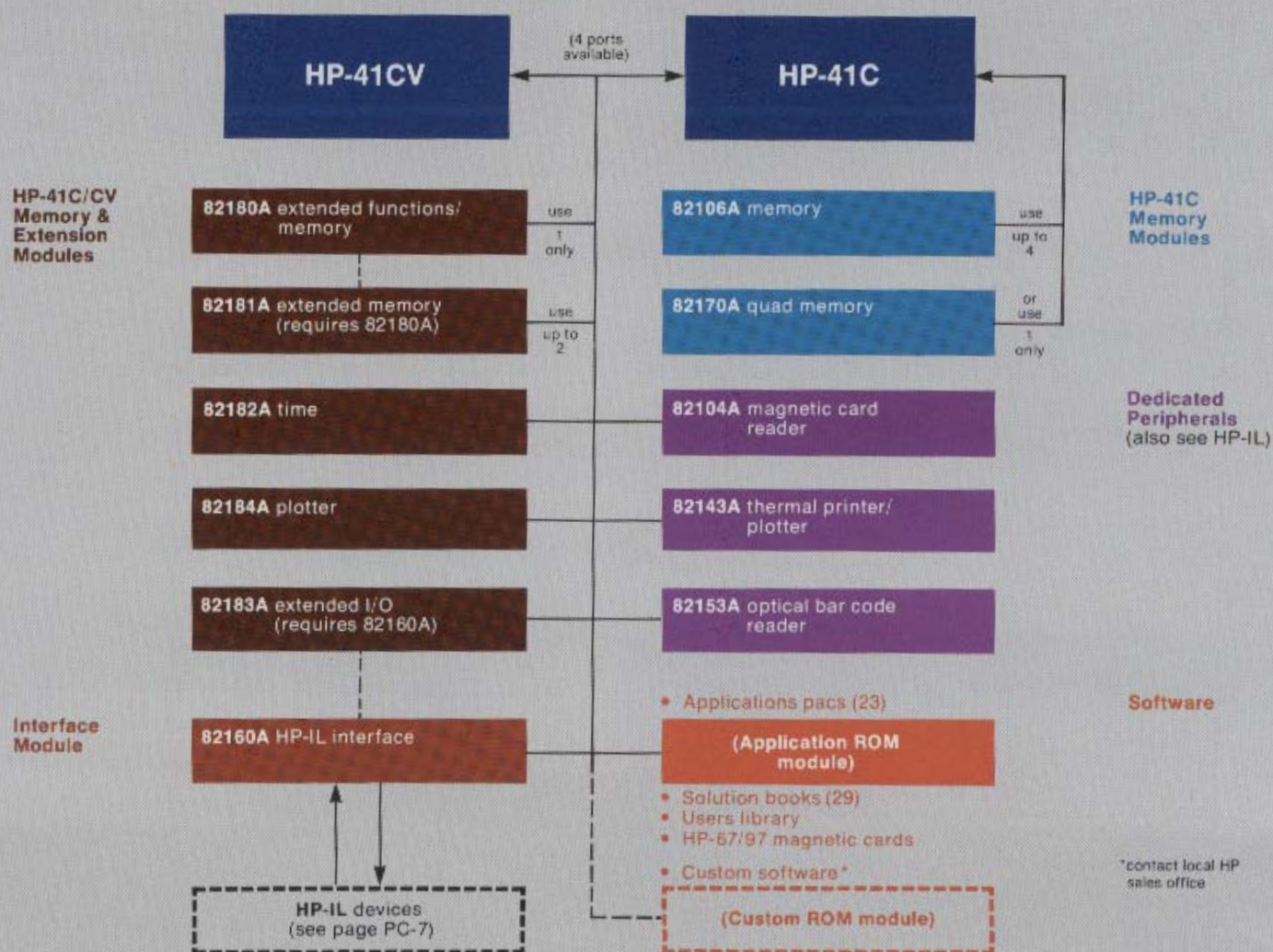
**82106A Memory module** (HP-41C only). Each module adds 64 registers; use up to four modules.

**82170A Quad memory module** (HP-41C only). Adds 256 registers; use one only. Do not use with 82106A modules.

## Series 40 products/configuration

This diagram summarizes all Series 40 products, including the various modules (memory, extension & interface) and

peripherals which may be plugged into any of the 4 ports available on Series 40 handheld computers.





**82180A Extended functions/memory module.** Adds 889 bytes extended memory and memory management functions; also programmable size, programmable assign, string functions.

**82181A Extended memory module.** Adds 1666 bytes or 238 data registers; use up to two of these modules; requires 82180A.

**82182A Time module.** Clock functions.

**82184A Plotter module.** Adds bar code generation and plotting capabilities.

**82183A Extended I/O module.** Adds flexibility for accessing mass memory device files, and more general I/O capabilities. Requires 82160A. (Available mid-February 1983).

**82160A HP-IL interface module** (with two 0.8 m cables).

### Dedicated peripherals for Series 40 computers

Also see HP-IL peripherals on page PC-7

#### 82104A Magnetic card reader.

**00097-13141 Package 40 blank cards,** with holder

**00097-13143 Package 120 blank cards,** with 3 holders

**00097-13206 Package 1000 blank cards,** without holders

**00097-13142 Package 3 card holders,** each holds 40 cards

#### 82143A Thermal printer/plotter.

(Uses same supplies & accessories as HP-IL printer/plotter 82162A; see page PC-7.)



## Series 30 calculators



L-R: HP-32E, HP-33C, HP-34C, HP-37E, HP-38C.

HP's palm-sized Series 30 calculators have LED (light emitting diode) displays, favored by many for use in dimly-lit work environments. All use RPN logic, and the "C" models have continuous memory which retains entered data even when calculator is turned off. Size: 75 x 140 x 30 mm (3 x 5.6 x 1.2 in.).

#### HP-32E Scientific with statistics.

Features: Statistics, metric conversions, degrees-to-radians conversions, logarithms, trigonometrics, factorials.

#### HP-33C Programmable scientific.

Features: 49 program lines, 8 conditional tests; degrees-to-radians conversions, logarithms, trigonometrics, linear regression/estimate.

#### HP-34C Advanced programmable scientific.

Features: Solve and integrate, trigonometrics, statistics, 210 program lines, 8 conditional tests, insert/delete editing.

#### HP-37E Business.

Features: Amortization, time and money functions, price, mean and standard deviation, correlation coefficient, factorial.

#### HP-38C Advanced financial programmable.

Features: Simple interest, time and money functions, net present value and internal rate of return, statistics, 99 program lines, 2 conditional tests.

#### Accessories for Series 30 calculators.

**82110A Replacement case**

**82109A Battery pack**

**82087B 110 Vac adapter and recharger**

**82090B 220 Vac adapter and recharger**

**82103A Reserve power pack**



## Series 40 handheld computers (cont.)

### 82153A Optical wand.

82153-90019 Manual: "Creating your own bar code."

### Series 40 accessories

82111A Replacement soft case.

82120A Rechargeable battery pack.

82059B 110 Vac adapter/recharger.

82066B 220 Vac adapter/recharger.

82151A Package 2 module holders.

82152A Package 5 blank key overlays.

82172A Package 50 blank key overlays.

**NEW** 82200A Touchpad

### Software for Series 40: Application pacs

Each pack includes pre-programmed application ROM module, to transform your HP-41 into an answer machine for a particular discipline or application. Comprehensive manual included in all pacs, and many also include special keyboard overlays to redesignate keys for the application.

<b>NEW</b> Auto-start duplication ROM	00041-15042
Aviation (pre-flight only)	00041-15018
Circuit analysis	00041-15006
Clinical lab & nuclear medicine	00041-15024
Financial decisions	00041-15004
Financial decisions (Spanish)	00041-15030

Games	00041-15022
Home management	00041-15023
Machine design	00041-15020
Mathematics	00041-15003
Mathematics (Spanish)	00041-15029
Securities	00041-15026
Standard applications	00041-15001
Statistics	00041-15002
Statistics (Spanish)	00041-15028
Stress analysis	00041-15027
Surveying	00041-15005
Thermal & transport science	00041-15019

Navigation	00041-15017
Real estate	00041-15016
Structural analysis	00041-15021

<b>NEW</b> HP-IL development module	00041-15043
Petroleum fluids	00041-15039

### Software for Series 40: Solutions books

Programs to help solve general or specialized problems are provided in two forms in every book: step-by-step listings for keystroke entry, and the same information printed in bar code form for fast entry with the HP 82153A optical wand.

Antennas	00041-90093
Business statistics/marketing/sales	00041-90094
Calendars	00041-90145
Cardiac/pulmonary	00041-90097
Chemical engineering	00041-90100
Chemistry	00041-90102
Civil engineering	00041-90089
Control systems	00041-90092
Electrical engineering	00041-90088
Fluid dynamics & hydraulics	00041-90139
Games I	00041-90099

<b>NEW</b> Games II	00041-90443
Geometry	00041-90084
Heating, ventilating & air condition	00041-90140

High-level mathematics	00041-90083
Home construction estimating	00041-90096
Lending, savings & leasing	00041-90086
Mechanical engineering	00041-90090
Optometry (general)	00041-90143
Optometry II (contact lens)	00041-90144
Physics	00041-90142
Real estate	00041-90136
Small business	00041-90137
Solar engineering	00041-90138
Surveying	00041-90141
Taxes: 1982	00041-90455
Test statistics	00041-90082
Time module solutions I	00041-90395

<b>NEW</b> Structural design (includes cassette)	00041-90441
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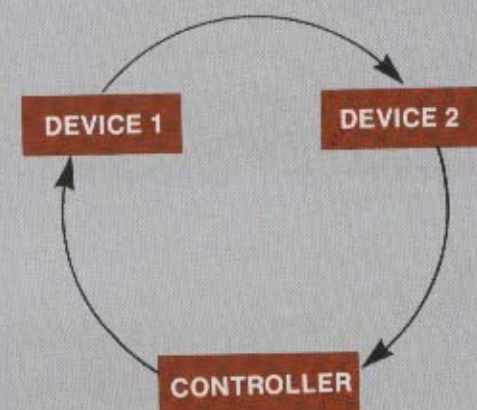
### Localized software

If you are outside the United States, check with your nearest HP dealer or local HP sales office for the availability of application pacs or solutions books written in your language, or for the technical/trade practices in your country.

### Custom software copies

If you have written unique software so that HP-41s can be used in your business or other personalized applications, HP can manufacture special key overlays showing your particular key definitions. And your software can be reproduced in volume on any of four media: digital mini cassettes, plug-in custom ROM modules, magnetic cards, and bar codes. Contact your local HP sales office for more details.

## HP-IL peripherals, interfaces & accessories



(L): HP-IL concept; (R): HP-41 computer/controller on the HP-IL with 82161A digital cassette drive and 82162A thermal plotter/printer.

**HP-IL** The Hewlett-Packard Interface Loop (HP-IL) is a bit-serial interface for low-cost, battery-operated systems. Devices on the loop 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.

**82161A Digital cassette drive.** Stores up to 131 Kbytes, on mini data cassette.

**82176A Package of 10 data cassettes.**

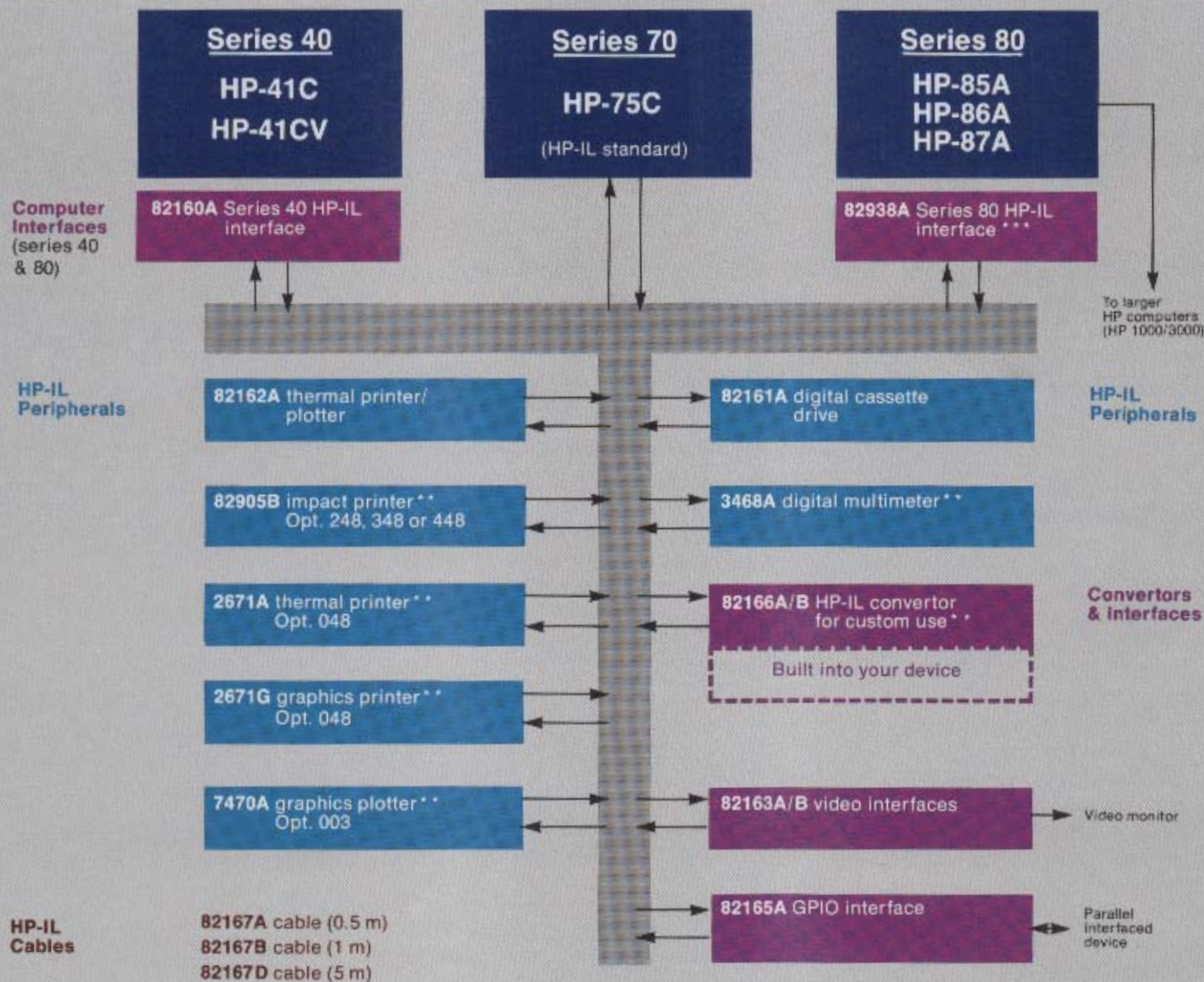
**82177A Package 420 blank labels,** for mini data cassettes



## HP-IL products/configurations

This diagram summarizes all HP-IL products, as well as an indication of how HP-IL products can be interconnected.

The smallest configuration would typically be one computer and one other HP-IL device.



\*\*Contact local HP sales office.

\*\*\*Requires 82936A ROM drawer, and D085/87-15003 I/O ROM.

For battery pack, power adapters, security cable, see 82162A printer/plotter below.

### 82162A Thermal printer/plotter

Has 100-character buffer, enhanced graphics; automatically centers or justifies copy to left or right margins.

82045A Blue-printing thermal paper,

82175A Black-printing thermal paper,

82044A Security cable†

82033A Rechargeable battery pack.†

82120A Rechargeable battery pack.†

82059B 100 Vac adapter/recharger.†

82066B 220 Vac adapter/recharger.†

82037A Reserve power pack.†

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### HP-IL interfaces & cables

82165A GPIO interface

82163A video interface (U.S.)

82163B video interface (Euro).

82160A Series-40 interface.

82938A Series-80 interface.

82167A cable (0.5 m)

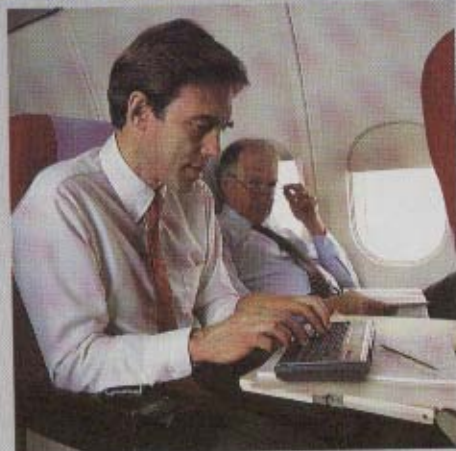
82167B cable (1 m)

82167D cable (5 m)

†These items also used with 82143A, 82161A



## Series 70 portable computers



### NEW HP-75C Portable computer

Hewlett-Packard's new HP-75C is a powerful, battery-operated computer that's so small you can use it anytime, anywhere. It has 16 Kbytes of memory (expandable to 24K), a built-in card reader, and a standard HP-IL interface for peripherals and communications. Truly a portable computing system.

Contact your nearby authorized HP dealer or local HP sales office to see and buy this amazing new computer.

### HP-IL peripherals for HP-75C (see page PC-8)

### Accessories for HP-75C

NEW All of the following are new accessories and supplies for your HP-75C:

82700A Memory module (8 Kbytes)

82703A Replacement field case

82710A Blank key overlays,

82717A Blank key overlays,

82707A Blank magnetic program cards,

82708A Blank magnetic program cards,

82715A Notebook card holders,

82001B Rechargeable battery pack.

82059B Replacement 110 Vac

82066B 220 Vac adapter/recharger.

82004A Reserve power pack. (Requires

82002A 110/220 Vac recharger (for

### Software for HP-75C: Solutions books

NEW All of the following solutions books include magnetic program cards:

Electronics . . . 00075-13008	Math II . . . 00075-13004
Finance . . . 00075-13009	Math III . . . 00075-13005
Games I . . . 00075-13006	Real Estate . . . 00075-13010
Games II . . . 00075-13007	Statistics . . . 00075-13011
I/O Utilities . . . 00075-13013	Test
Math I . . . 00075-13003	Statistics . . . 00075-13012

## Series 80 personal computers

### Plug-in modules

A complete listing of plug-in, ROM and interface modules appears on pages 62-63 of HP's *Computer Users Catalog* (Autumn/Winter 82/83). The newest module appears below:

### NEW 82967A Speech Synthesis Module.

Now your Series 80 computer can speak over 1500 words, sounds and phrases. Software is included which allows you to review, listen, and create the needed phrases and store them for later use by an application program. Software and a startup vocabulary of more than 1500 English words are provided on both 3½-inch and 5¼-inch flexible discs supplied with the module.

In addition to flexible disc drive, and standard 8-ohm speaker or headphone, requirements are: HP-85, 32 Kbytes memory; HP-86 & HP-87, 64 Kbytes memory. (NOTE: With HP-86, monitor speaker can be used, via additional HP 92220M Monitor Cable.)

### HP Series 80 software

Effective 1 November 1982, all Series 80 software product numbers were changed to reflect the kind of media needed—so

almost all software packages now contain a single type media: 3½-inch or 5¼-inch flexible disc, or (for HP-85) mini data cartridge.

The nearby tables summarize all new software product numbers, as well as the superseded numbers they replaced.

Note that Series 80 software packages described on pages 43-45 of HP's *Computer Users Catalog* (Autumn/Winter 82/83) are listed under the old, superseded product numbers. New software packages introduced after the *Catalog* was published are described below.

### Software for HP-85 computers

The adjacent chart lists all software packages currently available for HP-85 personal computers. Note that effective 1 November 1982, you must order the software product number specified for the type of media you use—mini data cartridge, 3½-inch micro flexible disc, or 5¼-inch mini flexible disc. Superseded product numbers are listed for your reference.

Descriptions for most of these software packages appear on pages 43-45 of HP's *Computer Users Catalog* (Autumn/Winter 82/83). Packages introduced since that catalog was printed follow:

### Finance/Accounting

NEW **Portfolio Management.** Helps individual investors and professional investment advisors monitor their portfolios. Softkey and prompt-driven commands make it easy to enter investments for net worth valuation and tax planning. A connection with the *Dow Jones News/Retrieval*® service lets you automatically update the current market value of your portfolio of stocks, bonds, warrants, T-bills and mutual funds. You can also handle cash, real estate, liabilities and other investments. Handles up to 100 different investment items, with an unlimited number of portfolios (35 portfolios stored on each data cartridge or disc).

*Dow Jones News/Retrieval* is a registered trademark of Dow Jones and Company, Inc.

NEW **TAJ™ (The Accounts Journal™).** Fully integrates the journals needed in small business accounting: general ledger, accounts receivable, accounts payable, and payroll. TAJ can handle up to 400 general ledger accounts, 300 customers, 300 vendors and 50 employees. Complete integration: all journals are updated with one posting. Available on disc only.



## Software for HP-85 personal computers

	Software package name*	Superseded product number	Product number			Required for operation††
			data cartridge	3½-inch disc	5¼-inch disc	
<b>General Business</b>	VisiCalc <sup>®</sup> PLUS	00085-13042	00085-13111	00085-13311	00085-13511	A,B,E,F,J
	File manager	88103A	n/a	88103A Opt. 630	88103A Opt. 650	B,E,J,M,P
	Information management	00085-13045	n/a	00085-13322	00085-13522	B,E,J,M
<b>Word Processing/ Graphics</b>	Text editing	00085-13034	00085-13133	00085-13320	00085-13520	A,B,E,F,J
	Graphics presentations	-13038	-13110	-13310	-13510	
<b>Finance/Accounting</b>	Financial decisions	00085-13004	00085-13103	00085-13303	00085-13503	A,D,N
	Portfolio management	-13060	*	-13324*	-13524*	
	TAJ <sup>™</sup> (The Accounts Journal <sup>™</sup> ) HP+	-16001	n/a	-16001**	-16001**	
<b>Statistics/Mathematics</b>	General statistics	00085-13003	00085-13102	00085-13302	00085-13502	L
	Basic statistics & data manipulation	-13036	-13108	-13308	-13508	
	Regression analysis	-13037	-13109	-13309	-13509	
	Statistical analysis multi pac (above 3 packages)	-13058	-13117	-13317	-13517	
	Linear programming	-13011	-13106	-13306	-13506	
	Math	-13005	-13104	-13304	-13504	
<b>Engineering</b>	AC circuit analysis	00085-13006	00085-13105	00085-13305	00085-13505	
	Waveform analysis	-13035	-13107	-13307	-13507	
	Electronics engineering multi pac (above 2 packages, plus Math)	-13509	-13118	-13318	-13518	
	Surveying	-13046	-13112	-13312	-13512	
<b>General/Utility</b>	BASIC training	00085-13002	00085-13101	00085-13301	00085-13501	
	Standard pac	-13001	-13119	n/a	n/a	
	Games	-13010	-13120	-13319	-13519	
	Games II	-13057	-13136	-13323	-13523	
<b>Data Communications</b>	Data communications	00085-13044	00085-13134	00085-13321	00085-13521	A,D,E,G,N

\* Data cartridge included in 3½-inch and 5¼-inch disc versions of *Portfolio management* package.

\*\* Single package contains both 3½-inch and 5¼-inch discs.

† HP Series 80 software marked with the HP PLUS logo (HP+) is developed and supported by independent companies. This software has been checked through customer references and by a Hewlett-Packard evaluation team for quality, ease of use and installation. HP Series 80 HP PLUS software is available only in the U.S.

VisiCalc is a registered trademark of VisiCorp.

TAJ and The Accounts Journal are trademarks of Production Data Systems.

†† Additional system elements, if required to operate the software package, are:

- A ROM drawer (HP 82936A)
- B Plotter/printer ROM (HP 00085-15002)
- C Mass storage ROM (HP 00085-15001)
- D I/O ROM (HP 00085-15003)
- E 16 Kbyte memory module (HP 82903A)

F HP-IB interface (HP 82937A)

G Serial interface (HP 82939A)

H Disc memory (HP 82900-series, 9121D/S, 9134A, 9135A, or 9695A)

J Plotter (HP 7225B w/HP 17501A module, HP 9872C, or HP 7470A)

K Printer (HP 82905A/B or HP 2671A/G)

L Basic statistics and data manipulation software (HP 00085-13108, -13308, or -13508)

M Items A,C,F and H listed above

N Modem (HP 82950A, Opt. 630 or 650)

### General/Utility

**Standard Pac.** Replacement data cartridge containing standard programs and utilities. (One Standard Pac is supplied with each HP-85.)

### Data Communications

**NEW Data Communications.** Turn your HP-85, HP-86 or HP-87 Personal Computer into an intelligent remote terminal that will communicate with other asynchronous computers and terminals. Transmission rates range from 50 to 9600 baud. You can transfer data files to a remote device (uploading) or from a remote device to your HP Series 80 Computer (downloading). Print reports, store and retrieve data, and use other Series 80 peripherals while you are on line.

### Software for HP-86 & HP-87 computers

The following chart lists all software packages currently available for HP-86 and HP-87 personal computers. Note that effective 1 November 1982, you must order the software product number specified for the type of media you use.

Descriptions for most of these software packages appear on pages 43-45 of HP's *Computer Users Catalog* (Autumn/Winter 82/83). Newer packages appear below:

#### General business

**NEW HP+ DATABOOK™ II.** Gives an individual or clerical staff a more efficient way to manage time than with

an appointment book. Useful where time management is critical to efficiency; doctors' offices, legal firms, business executives, and other professional offices.

Appointments can be scheduled, cancelled, modified, moved, or held until they can be rescheduled. Openings can be searched by time of day, day of week, or day of year. Print out appointments for the day, display all scheduled appointments for any person, or schedule a conference for all attendees.

**NEW FILE/80.** Solution-oriented file management system designed to provide user with an efficient method of managing files and producing output (reports, labels, letters) from information in the files.



## Series 80 personal computers (cont.)



HP-87 personal computer, with 82901M disc drive and 82905B printer.

### Software for HP-86 & HP-87 computers (cont.)

#### Word processing/Graphics

**NEW** **WORD/80.** Complete software product for the generation of memos, letters, and reports. Consists of an editor to create, type, print, and store documents — and a formatter to format and print files created with the editor.

#### Finance/Accounting

The *Peachtree Accounting Series 8* allows you to spend more time on analysis and less on bookkeeping. The five Peachtree accounting modules can be used independently, or together as an integrated system that combines entries in all modules for trial balancing and end-of-period reporting. All five modules have been customized in HP BASIC to take advantage of the unique features of HP Series 80 personal computers. Details follow:

**NEW** **HP+ Peachtree General Ledger.** Helps track a company with up to 100 departments. Provides a complete set of management reports and automatically posts transactions entered in other Peachtree modules. General Ledger provides flexible chart-of-account setup, and built-in depreciation/amortization calculations.

**NEW** **HP+ Peachtree Accounts Receivable.** Helps prepare bills and obtain timely collections from your customers. Use it to print invoices, statements, and aging reports, as well as maintain information on sales taxes, customer accounts, and details for posting to the General Ledger. At the end of a billing period, this AR will execute either a

balance forward or a more detailed open-item customer account, or a combination of the two.

**NEW** **HP+ Peachtree Accounts Payable.** Maintain a complete master file on each vendor. This AP can show you which invoices to pay — by due date, discount date, or according to your cash flow requirements. Includes detailed aging reports, automatic posting for recurring invoices, and the ability to apply credits to a specific invoice or as an open credit against a vendor record.

**NEW** **HP+ Peachtree Inventory Control.** Helps monitor all facets of your inventory operations. Features include three price levels for each item, standard cost or average cost options, and an inventory master file with sales, costs, and reorder information. Handles approximately 1250 inventory items on each 270 Kbyte disc.

**NEW** **HP+ PeachPay™ Payroll System.** A complete payroll system you can use by itself, or with Peachtree General Ledger. Maintains a complete employee payroll history and will support weekly, bi-weekly, semi-monthly, and monthly pay periods. Provides 12 deduction categories and 8 earnings categories. Tracks sick and vacation days used and accrued. Tax record maintenance is provided by an annual subscription.

**NEW** **HP+ Fixed Asset Accounting.** For use by small and medium-sized businesses, accountants, and tax preparers. Program calculates book, federal and state depreciation using a variety of nonrecovery and recovery methods. The program generates 30 reports, including comparisons of book, federal and state methods. Additionally, the program prepares information for several common tax

forms. Assets can be listed by a variety of methods for tracking.

#### General/Utility

**NEW** **BASIC Training.** Self-teaching BASIC language course for novice users. Proceed at your own pace. Pre-recorded media provides guide to operation and programming. Prepares users for more advanced operations.

**NEW** **HP+ UCSD p-System®/PASCAL.** This is a complete software development system supporting UCSD PASCAL®. The UCSD p-System offers the user an integrated operating system including the PASCAL compiler, assembler, editor, linker, and file handler. This system will allow you to develop highly portable applications software, as well as take advantage of the growing library of third-party software developed for the p-System.

**NEW** **HP+ FORTRAN-77.** This is offered as an add-on FORTRAN-77 compiler module for the user who already employs the UCSD p-System/PASCAL software development system. (NOTE: FORTRAN-77 is not a standalone product.)

**NEW** **HP+ UCSD p-System®/FORTRAN-77.** This is a complete software development system supporting FORTRAN-77. The p-System offers the user an integrated operating system including the FORTRAN compiler, and assembler, editor, linker, and file handler. This system allows you to develop highly portable applications software as well as take advantage of the growing library of third-party software developed for the p-System.

**NEW** **HP+ UCSD PASCAL®.** This is offered as an add-on PASCAL compiler module for the user who already employs the UCSD p-SYSTEM/FORTRAN-77 software development system. (NOTE: UCSD PASCAL is not a standalone product.)

























**NEW** **HP+ UCSD p-System® Runtime Module.** This enables you to execute software developed under the UCSD p-System. This does not, however, support the program development facilities of the p-System such as editing, filing, debugging, linking, compiling, etc.

#### Data Communications

See HP-85 software section.



## Software for HP-86 and HP-87 personal computers

Software package name +	Superseded product number	Product number		Required for operation††	
		3½-inch disc	5¼-inch disc		
General Business	 MILESTONE® (CP/M) HP+	00087-16009	45580A Opt. 630	45580A Opt. 650	Q
	 DATEBOOK™ II (CP/M) HP+	n/a	45581A Opt. 630	45581A Opt. 650	Q
	VisiCalc® PLUS	00087-13001	00087-13311	00087-13511	64 Kbytes A,J,T
	 dBASE II™ (CP/M) HP+	00087-16004	-16304	-16004	Q
	 FILE/80	00087-13006	-13320	-13520	96 Kbytes
Word Processing/Graphics	 WordStar® (CP/M) HP+	00087-16001	00087-16301	00087-16001	Q
	 SpellStar™ (CP/M) HP+	-16003	-16303	-16003	Q
	 MailMerge™ (CP/M) HP+	-16002	-16302	-16002	Q
	 WORD/80	-13005	-13319	-13519	96 Kbytes
	Graphics presentations	-13002	-13310	-13510	96 Kbytes, A,J,T
Finance/Accounting	Peachtree accounting Series 8:				
	 • General ledger HP+	n/a	00087-16310	00087-16010	64 Kbytes
	 • Accounts receivable HP+	n/a	-16311	-16011	64 Kbytes
	 • Accounts payable HP+	n/a	-16312	-16012	64 Kbytes
	 • Inventory control HP+	n/a	-16314	-16014	64 Kbytes
	 • PeachPay™ payroll system HP+	n/a	-16313	-16013	64 Kbytes
	 Fixed asset accounting (p-System) HP+	n/a	-16326	-16026	96 Kbytes
	Financial decisions	00085-13004	-13303	-13503	
	 Personal tax plan (CP/M) HP+	00087-16006	-16306	-16006	Q
	 Personal tax plan (p-System) HP+	n/a	-16323	-16023	96 Kbytes
	 Professional tax plan (CP/M) HP+	00087-16005	-16305	-16005	Q
	 Professional tax plan (p-System) HP+	n/a	-16324	-16024	96 Kbytes
	 Estate tax plan (p-System) HP+	n/a	-16325	-16025	96 Kbytes
Statistics/Mathematics	General statistics	00085-13003	00087-13302	00087-13502	
	Basic statistics & data manipulation	-13036	-13308	-13508	
	Regression analysis	-13037	-13309	-13509	L
	Statistical analysis multi pac (above 3 packages)	-13058	-13317	-13517	
	Linear programming	-13011	-13306	-13506	
	Math	-13005	-13304	-13504	
Engineering	AC circuit analysis	00085-13006	00087-13305	00087-13505	
	Waveform analysis	-13035	-13307	-13507	
	Electronics engineering multi pac (above 2 packages, plus Math)	-13059	-13318	-13518	
	Surveying	-13046	-13312	-13512	
General/Utility	 BASIC training	00087-13004	00087-13301	00087-13501	
	 UCSD p-System®/PASCAL HP+	-13012	-13324	-13524	96 Kbytes
	FORTTRAN-77 (p-System add-on)	-13014	-13326	-13526	96 Kbytes
	 UCSD p-System®/FORTTRAN-77 HP+	-13011	-13323	-13523	96 Kbytes
	UCSD PASCAL® (p-System add-on)	-13013	-13325	-13525	96 Kbytes
	 UCSD p-System® runtime module HP+	-13015	-13327	-13527	96 Kbytes
Data Communications	 Data communications	00085-13044	00085-13321	00085-13521	A,D,G,N

†HP Series 80 software marked with the HP PLUS logo (HP+) is developed and supported by independent companies. This software has been checked through customer references and by a Hewlett-Packard evaluation team for quality, ease of use and installation. **HP Series 80 HP PLUS software is available only in the U.S.**

MILESTONE is a registered trademark of Organic Software, Inc.

DATEBOOK is a trademark of Organic Software, Inc.

VisiCalc is a registered trademark of VisiCorp.

dBASE II is a trademark of Ashton-Tate.

WordStar is a registered trademark of MicroPro International Corporation.

SpellStar and MailMerge are trademarks of MicroPro International Corporation.

PeachPay is a trademark of Peachtree Software, Inc.

Fixed Asset Accounting, Personal Tax Plan, Professional Tax Plan and Estate Tax Plan were developed by Aardvark Software, Inc. Estate Tax Plan developed under the supervision of Dr. William A. Reabe, CPA.

UCSD p-System and UCSD PASCAL are registered trademarks of The Regents of the University of California.

††HP-86 and HP-87 computers all require an external printer and disc memory (items H & K below). Additional system elements, if required to operate the software package, are:

- A ROM drawer (HP 82936A)
- D I/O ROM (HP 00085-15003)

G Serial interface (HP 82939A)

H Disc memory (HP 82900-series, 9121D/S, 9134A, 9135A, or 9895A)

J Plotter (HP 7225B w/HP 17601A module, HP9872C, or HP 7470A)

K Printer (HP 82905A/B or HP 2671A/G)

L Basic statistics & data manipulation software (HP 00087-13308 or -13508)

N Modem (HP 82950A, Opt. 630 or 650)

Q CP/M System (HP 82900A)

T Plotter ROM (HP 00087-15002)



## Series 100 personal office computers



HP-120 (Series 100) and Model 16 (Series 200). Foreground: HP-75C.

### HP Series 100 software

Effective 1 November 1982, all Series 100 software product numbers now require the addition of an *option number*, to reflect the size of flexible disc needed. All software packages now contain a *single media*: 3½- or 5¼- or 8-inch flexible disc.

The nearby table summarizes all new option numbers for Series 100 software. Note that HP-125 software packages described on pages 46–47 of HP's *Computer Users Catalog* (Autumn/Winter 82/83) do not include the new option

numbers, and that some "A" suffix software is now superseded by "B" versions.

### General business software

**NEW HP+ MILESTONE®.** For project management and time scheduling. Uses PERT/CPM techniques to help project leaders and small business owners clarify tasks at hand, and communicate schedules and priorities. (PERT treats projects as a series of events in a time sequence, and is widely used to track progress. CPM treats projects as a series of

activities, and is used in project planning.) Also used with HP-86 & HP-87.

**NEW HP+ DATEBOOK™ II.** Gives an individual or clerical staff a more efficient way to manage time than with an appointment book. Useful where time management is critical to efficiency; doctors' offices, legal firms, business executives, and other professional offices. Appointments can be scheduled, cancelled, modified, moved, or held until they can be rescheduled. Openings can be searched by time of day, day of week, or day of year. Print out appointments for any person, or schedule a conference at a time convenient for all attendees.

### Finance/Accounting

**NEW HP+ BPI General Accounting.** An easy-to-use double-entry bookkeeping system which can produce timely financial reports to aid business decision making. All bookkeeping entries are made into one of six journals. After journal entries are complete, General Accounting automatically posts ledgers, prepares financial statements, and closes the books. Monthly, quarterly, and year-to-date payroll earnings records are kept for every employee.

## Software for HP-120 and HP-125 personal office computers

Software package name†		Product number	3 1/2-inch disk	5 1/4-inch disc	8-inch disc
			..... (must also include an Option number below)		
General Business	VisiCalc®	45531B ...	Opt. 630	Opt. 650	Opt. 680
	Condor™ 20-1 HP+	45550A ...	Opt. 630	Opt. 650	Opt. 680
	Condor™ Upgrade 20-1 to 20-2 HP+	45550K ...	Opt. 630	Opt. 650	Opt. 680
	Condor™ 20-2 HP+	45550E ...	Opt. 630	Opt. 650	Opt. 680
	NEW MILESTONE® HP+	45580A ...	Opt. 630	Opt. 650	Opt. 680
	NEW DATEBOOK™ II HP+	45581A ...	Opt. 630	Opt. 650	Opt. 680
	NEW PERSONAL DATEBOOK™ HP+	45582A ...	Opt. 630	Opt. 650	Opt. 680
Word Processing/Graphics	Wordstar® HP+	45560A ...	Opt. 630	Opt. 650	Opt. 680
	SpellStar™ HP+	45561A ...	Opt. 630	Opt. 650	Opt. 680
	MailMerge™ HP+	45562A ...	Opt. 630	Opt. 650	Opt. 680
	Word	45533B ...	Opt. 630	Opt. 650	Opt. 680
	Graphics	45532B ...	Opt. 630	Opt. 650	Opt. 680
Finance/Accounting	BPI general accounting HP+	45552A ...	Opt. 630	Opt. 650	Opt. 680
General Utility	NEW BASIC	45535A ...	Opt. 630	Opt. 650	Opt. 680
	Programming package	45536A ...	Opt. 630	Opt. 650	Opt. 680
Data Communications	DSN/Link	45534B ...	Opt. 630	Opt. 650	Opt. 680

† HP Series 100 software marked with the HP PLUS (HP+) is developed and supported by independent software companies. This software has been checked through customer references and by a Hewlett-Packard evaluation team for quality, ease of use and installation.

VisiCalc is a registered trademark of VisiCorp.

Condor is a trademark of Condor Computer Corporation.

MILESTONE is a registered trademark of Organic Software, Inc.

DATEBOOK and PERSONAL DATEBOOK are trademarks of Organic Software, Inc.

WordStar is a registered trademark of MicroPro International Corporation.

SpellStar and MailMerge are trademarks of MicroPro International Corporation.



## Series 200 personal technical computers

### HP Series 200 software

The Series 200 computers include the compact new Model 16, as well as existing models 26 and 36 (formerly called the HP 9826 and 9836, respectively).

Effective 1 November 1982, all Series 200 software product numbers now require the addition of an option number, to reflect the size of flexible disc needed.

The nearby table summarizes all new option numbers for Series 200 software. Note that HP 9826/9836 software packages described on pages 47-48 of HP's *Computer Users Catalog* (Autumn/Winter 82/83) do not include the new option numbers, which must now be included when you order.

**NEW Statistics Library, Complete.** An economical way to get all the capabilities described for the two individual software packages, *Statistics Library parts I and II*: Basic Statistics and Data Manipulation, General Statistics, Statistical Graphics, Regression Analysis, Monte Carlo Simulation, Analysis of Variance, Principal Components; Factor Analysis.

### Software for Series 200: Models 16, 26 and 36 personal technical computers

Software package name†		Product number	For Model 16 3 1/4-inch disc	For Model 16 5 1/4-inch disc	Models 26 & 36 5 1/4-inch disc	Required for operation ‡
(must also include an Option number below)						
General Business	VisiCalc®	98810A ...	Opt. 630	Opt. 650	Opt. 655	256K
	Project management	98817A ...	Opt. 630	Opt. 650	Opt. 655	256K, B2.0
	Forecasting	98818A ...	Opt. 630	Opt. 650	Opt. 655	256K, B2.0
Graphics	Graphics presentations	98815A ...	Opt. 630	Opt. 650	Opt. 655	256K, B2.0 plotter
Statistics/Mathematics	Statistics library, part I	98820B ...	Opt. 630	Opt. 650	Opt. 655	256K, B2.0
	Statistics library, part II	98820C ...	Opt. 630	Opt. 650	Opt. 655	256K, B2.0
	Statistics library, complete	98820A ...	Opt. 630	Opt. 650	Opt. 655	256K, B2.0
	Numerical analysis library	98821A ...	Opt. 630	Opt. 650	Opt. 655	256K, B2.0
Engineering	AC circuit analysis	98825A ...	Opt. 630	Opt. 650	Opt. 655	256K, B2.0
	Waveform analysis	98827A ...	Opt. 630	Opt. 650	Opt. 655	305K, B2.0, HP-IB printer
	Linear systems analysis	98826A ...	Opt. 630	Opt. 650	Opt. 655	256K, B2.0
	Digital filter design	98828A ...	Opt. 630	Opt. 650	Opt. 655	256K, B2.0

† VisiCalc is a registered trademark of VisiCorp.

‡ All packages require 256 Kbytes or 305 Kbytes of read/write memory, as indicated—and except for VisiCalc, use BASIC 2.0 (B2.0) language system.

### Carrying cases, dust cover

**NEW 13269P Computer case.** Take your compact HP computer along in this rugged, soft vinyl case with handy shoulder strap. Fits HP-120 (Series 100) and Model 16 (Series 200). Internal pocket in lid holds a short or extended keyboard securely during transit, and space is pro-

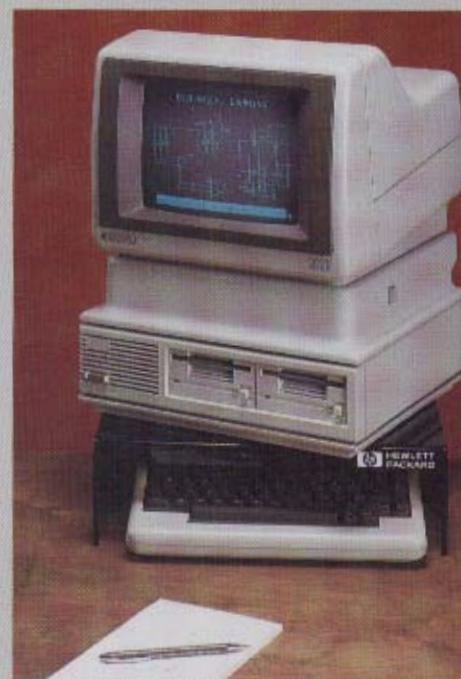


13269P and 13269T carrying cases

vided for cables and supplies. If your computer has a short keyboard (335 mm or 13.2 inches long, or less), there is enough room to also carry the HP 9121 micro disc drive in the same case. If your computer has a longer (extended) keyboard, use separate carrying case 13269T to carry your disc drive. (NOTE: This is a quality case, well padded to protect your computer, but it is NOT intended for shipment or as checked airline baggage.)

**NEW 13269T Disc drive case.** Padded, soft vinyl case sized to carry the HP 9121 micro disc drive and related cables, as well as a few manuals or other flat paperwork. (NOTE: Can also be used to instead carry the HP 92171V and 92171W tilt and swivel accessories.)

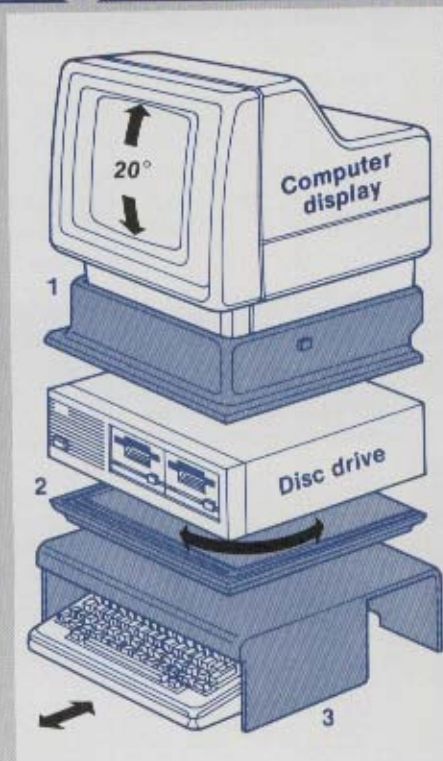
**NEW 92250A Dust cover set.** Durable, dark tan cloth covers provide a professional look to your workplace, while protecting display unit and keyboard from dust, dirt, food particles, etc. Fits the HP-120 (Series 100) and Model 16 (Series 200); also HP 238X terminal.



Use these convenience accessories to: (1) tilt display up/down and (2) swivel equipment right/left for easiest use, and (3) park keyboard out of the way when not in use. See details on page PC-15.



## Ergonomic/convenience accessories



1. Tilt unit, 2. Swivel unit, and 3. keyboard park for Series 100 & 200 personal computers.

### Ergonomic tilt/swivel accessories for your personal computers

Two extremely useful accessories for your HP-120 (Series 100) or Model 16 (Series 200) personal computer make it easy for you to position the display (and, indeed, the entire equipment stack) for the most comfortable, glare-free viewing angle. Means you get increased working comfort and personal productivity, thanks to reduced eye strain, back and neck fatigue.

**NEW 92171V Display tilt unit.** Holds and allows the computer display to be adjusted to exactly the vertical angle desired, over a total 20-degree range (up or down 10 degrees from horizontal), with pushbutton ease. (NOTE: Tilt unit may also be used with HP 238X office display terminals.)

**NEW 92171W Swivel unit.** Normally placed under the HP 9121 disc drive, so that the entire equipment stack (disc drive, tilt unit, display) can be adjusted right or left, as desired. (Can also fit directly under 92171V tilt unit, but

not recommended when disc drive is short-cabled to display.)

### Keyboard park saves desk space

Move your personal computer or office terminal keyboard out of your way when you're not using it. You not only open up extra work space on your desk, you also protect the keyboard from accidental spills or other damage.



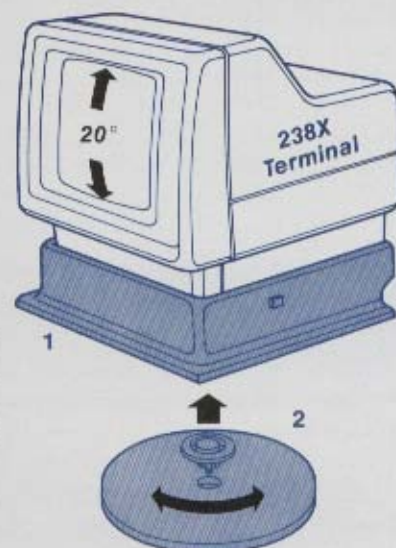
92171K Keyboard park

**NEW 92171K Keyboard park.** Put it under your HP-120 (Series 100) or Model 16 (Series 200) personal computer equipment stack, or under your HP 238X office display terminal. For keyboards not longer than 335 mm (13.2 inches). Back-wall slot carries keyboard cord to rear, for neater appearance. Made of sturdy, smoked acrylic plastic.

### Palm rests improve productivity

Those who use computer or terminal keyboards extensively will appreciate HP's palm rest accessories, which offer proper wrist support and help maintain proper forearm angle with the keyboard—which means less fatigue and better keyboard productivity. In addition to new unit below, also see unit for HP 264X terminals on page 19 of HP's *Computer Users Catalog* (Autumn/Winter 82/83).

**NEW 92171R Extended keyboard palm rest.** Snaps easily into place on HP extended keyboards (425 mm/16.7 inches long) used with the HP-120 (Series 100) personal computer and all HP 262X terminals. Cocoa brown color.



1. Tilt unit, and 2. Swivel adapter which fits into base of tilt unit, for HP 238X office display terminals.

### Tilt/swivel for HP 238X terminals

The 92171V display tilt unit described nearby also fits HP 238X office display terminals, to help eliminate glare from overhead lights, etc. And low-cost swivel (right/left) adjustments are available via the 92171Y swivel adapter:

**NEW 92171Y Swivel adapter.** Turntable unit snaps directly into base of 92171V display unit, for complete tilt/swivel capability. Not recommended for use with personal computers; instead use 92171W swivel unit for entire equipment stack.



92171R Palm rest



## Supplies and accessories for HP 9000 computers

### HP 9000 computer family

The immense power and capabilities of our new 32-bit HP 9000 family of computers greatly exceed those attributed to "personal computers," in the generally accepted sense.

Yet, the very compact size and low price of HP 9000 computers make it appropriate to mention them in this special catalog supplement.

There are 3 models in the HP 9000 technical computer family: Model 20 self-contained Integrated Workstation for desktop use (see photo), Model 30 rack-mountable "box" version, and Model 40 "short floor cabinet" version. The Models 30 and 40 both use terminals and external hard disc storage.

### Flexible discs for HP 9000/Model 20

**92190A Box of ten 5.25-inch double-sided discs.** Unformatted, in protective envelopes. Includes write-protect, jacket and storage box labels.

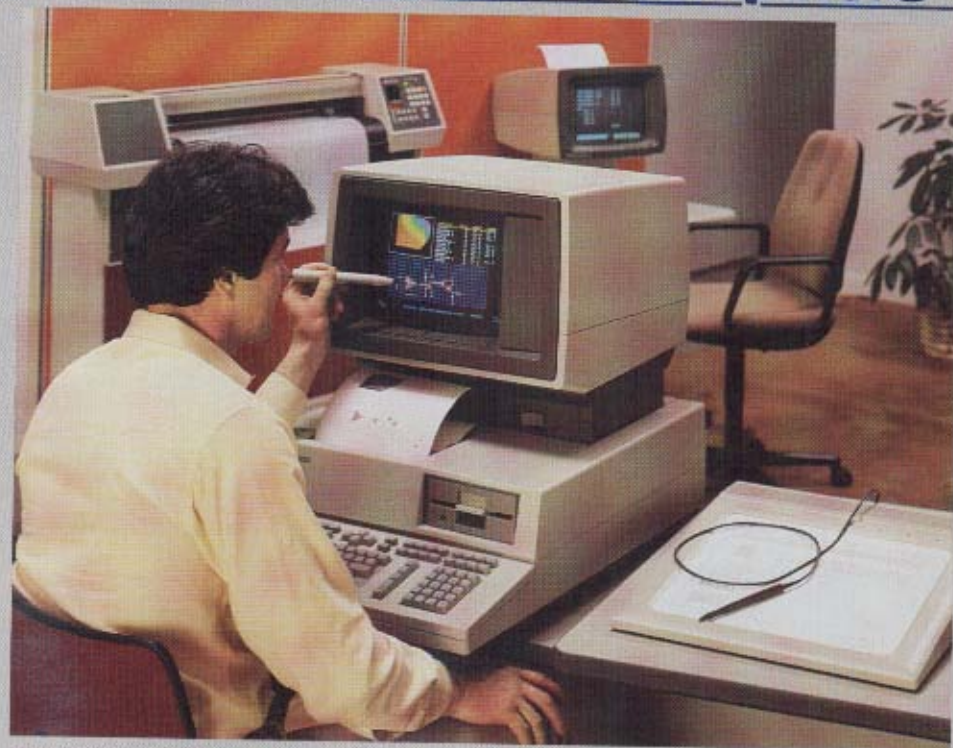
### **NEW** 92190L FlexFile package of fifty 5.25-inch double-sided discs.

**SAVE!** Unformatted discs, supplied in five handy FlexFile storage units, each holding ten discs (total 50 discs). Money-saving way to get HP FlexFiles (described on page 6 of *Computer Users Catalog*) when you buy quality HP discs. Interlocking FlexFile design, so you can easily arrange them vertically or horizontally to suit your needs. Index labels and instructions included.

### Table for HP 9000/Model 20

**NEW** A special dual-tier workstation table has been designed for use with the HP 9000/Model 20—and this same table is also ideal for HP desktop systems such as the Series 200 personal technical computers and HP 9845 desktop computers, especially where graphics tablets or other such peripherals are used.

The main support surface is 26 in. (660 mm) above the floor, including table casters. When an HP 9000/Model 20 is placed on this surface, the com-



HP 9000/Model 20 computer on HP 92213A table.

puter's home row keys are approximately 29 in. (750 mm) above the floor, which is ideal for operators using the system. This main surface is 24 in. (610 mm) deep, and 24 in. of its overall 48 in. (1220 mm) width is useable when the raised and cantilevered work surface is attached.

The cantilevered work surface is 30 in. (762 mm) deep and 24 in. wide. It may be slid to either the right or left end of the main support surface holding the computer—providing a convenient location at the right or left of the computer for graphics tablets, etc. Work height of the cantilevered surface is 28.4 in. (720 mm) above the floor. This cantilevered unit is easily detached from the main table when not needed.

**92213A Dual tier workstation table.**

### Table for HP 9000/Model 40

**92170G Workstation table.** Exactly matches the design lines, height and color of the HP 9000/Model 40 floor cabinet, and the companion disc drive

Models 7908/11/12. Dimensions: 28.3 in. high, 36.6 in. wide, 28 in. deep (720 x 930 x 712 mm).

### Thermal papers for HP 9000/Model 20

The following papers are page-perforated and fan-folded 330 sheets per pack. Each box contains 4 packs (total 1320 sheets per box). Metric-dimensioned paper is 210 x 297 mm; English-dimensioned paper is 8.5 x 11 in.

**9270-0643 Box of metric paper, blue print on white.**

**9270-0641 Box of English paper, blue print on white.**

**9270-0642 Box of metric paper, black print on white.**

**9270-9640 Box of English paper, black print on white.**





## **HP furniture and accessories ...productivity enhancers for people**

Equip your office with furniture and accessories designed to make working with computer equipment easier and more efficient.

Our sturdy modular workstation furniture system lets you start modestly, yet adapts easily to your future needs. And companion pieces such as printer and terminal stands are visually compatible with the modular system, as well as being color-matched

to HP's computer products.

For real productivity enhancement, be sure to see our new Ergonomic Chairs, offering the latest in seating technology. They are good looking, have conformal cushions for optimum comfort, and convenient multi-axis adjustments for making stress-relieving posture changes during the day.



## Modular workstation system

HP's modular workstation furniture helps you keep pace with today's rapidly evolving computerized office or laboratory. It lets you build the workstation you initially need, on a modest scale and at a modest price—while making it easy for you to modify and enlarge it as people and equipment are added, or as your floorplan changes.

This furniture is specifically built to handle terminals, printers, plotters, personal computers, flexible disc drives—as well as conventional office equipment such as typewriters. Unsightly cables and power cords are handled neatly and efficiently by the cable management features built into our workstation tables and printer stands.

Quality is a standard feature, and these are very sturdy products. Thanks to steel construction, the mar-resistant work surfaces can be cantilevered for a more open,




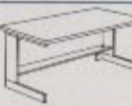


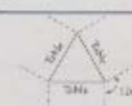
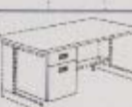
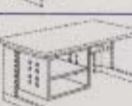
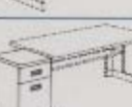

92210R Storage Module (see chart below)

uncluttered area underneath. Assembly is simple and fast; all mounting holes are pre-drilled/tapped, and all screws and other hardware provided. Truly an excellent value!



Built-in cable management—slots below the rear edge of our tables and stands work in conjunction with grommetted holes in the shelves to route cables and cords unobtrusively to ground level.

### HP modular workstation system

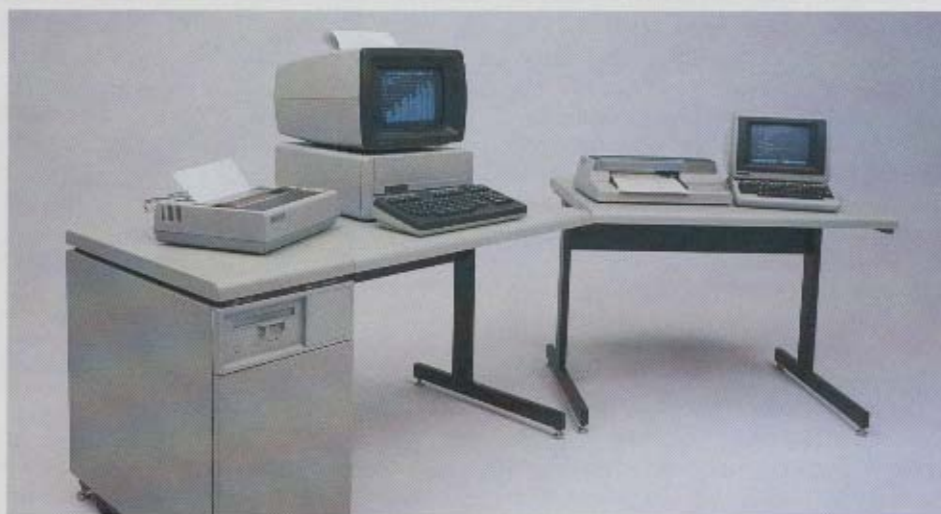
	Product number	Description	Height	Dimensions Width	Depth
	92210A	Compact workstation table, with leg levelers and modesty panel. Seven-inch (178-mm) shelf standard.	27.0 in. 686 mm	48.0 in. 1220 mm	30.0 in. 763 mm
	92210B	Standard workstation table, with leg levelers and modesty panel. Seven-inch (178-mm) shelf standard.	27.0 in. 686 mm	60.0 in. 1525 mm	30.0 in. 763 mm
	92210E	Work surface extension (return), with leg levelers and modesty panel. Fits right or left side of 92210B table; not for 92210A.	27.0 in. 686 mm	40.0 in. 1017 mm	24.0 in. 610 mm
	92210K	Table-top connector (trapezoid). Extends work surface by joining two 92210A/B tables.	back: front:	50.0 in. 1251 mm 24.0 in. 610 mm	28.5 in. 724 mm
	92210S	Table-top connector (triangle). Extends work surface by joining two or three 92210A/B tables.	each side:	30.0 in. 763 mm	
	92210Q	Suspended drawer unit. Two drawers, with identical key lock all 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 tables.	21.0 in. 534 mm	14.8 in. 375 mm	19.4 in. 493 mm
	92210R	Storage module unit, with three-position adjustable shelf. Rear of module is open for ventilation and access to 92210A/B cable management system, when module used to hold electronic equipment. Fits right or left side of 92210A/B tables.	19.0 in. 483 mm 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
	92210N	Mobile drawer unit, on casters. Two drawers, with identical key lock all units. Deep bottom drawer like 92210Q above. 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
	92210L	Set of four heavy-duty, double-wheel casters. Use in place of leg levelers on 92210A/B tables or 92210H/P stands where mobility is desired. Caster height 1.75 in. (45 mm).			

EASY ASSEMBLY! A Phillips screwdriver is the only tool needed to assemble the 92210A/B/E units, and to install the 92210K/Q/R/S units. All mounting holes are pre-drilled/tapped, and all hardware and brackets are included.



## Tables and printer stands

The following 92210H/P/T printer stands and table have the same design lines and color as the various components in our modular workstation system, as well as the built-in cable management feature. The HP 92170G is of a different style, and matches the design lines of the HP 7908/11/12 disc drives.



92170 Tables — stand alone at right, and at left configured with a 7912 Disc Drive, HP 1000 System.



92210P Print stand, 92173P Paper transporter







92210H Standup printer/CRT stand



92210T Workstation (with 92171U)

## Workstation tables and stands

	Product number	Description	Dimensions		
			Height	Width	Depth
	92210T (See above photo)	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 seven-inch (178 mm) shelf standard.	28.3 in. (720 mm)	<b>work surface</b> 30 in. (762 mm)	28 in. (712 mm)
			26.4 in. (670 mm)	<b>keyboard surface</b> 23.5 in. (597 mm)	12 in. (305 mm)
	92210P (See above photo)	Printer stand. Design matches HP 92210-series workstation system. Convenient paper feed slot (4 x 19 in., 102 x 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, seven-inch shelf standard.	27 in. (686 mm)	<b>work surface</b> 30 in. (762 mm)	24 in. (610 mm)
			18.5 in. (470 mm)	<b>printout catcher</b> 17 in. (432 mm)	13.5 in. (343 mm)
	92210H (See above photo)	Standup printer/terminal stand. Design matches HP 92210-series workstation system. Same slotted top and rear printout catcher as 92210P (see above). Height is 38 in. (965 mm), ideal for walk up operation of equipment. Cable management slots, seven-inch (178 mm) shelf standard.	38 in. (965 mm)	<b>work surface</b> 30 in. (762 mm)	24 in. (610 mm)
			29.5 in. (749 mm)	<b>printout catcher</b> 17 in. (432 mm)	13.5 in. (343 mm)
	92170G (See above photo)	Workstation table. Design matches color, form and dimensions of HP 7908/11/12 disc tape drives. Pearl grey and brown cocoa, steel construction. Hex-head wrench included for easy assembly.	28.3 in. (720 mm)	36.6 in. (930 mm)	28 in. (712 mm)

\*Prices include shipment by truck.



## Workstation accessories



92171U Tilting turntable

**92171U Tilting turntable** provides a tilting range of up 5° and down 5° from horizontal with 9 different positions. Each operator can easily position the CRT to the ideal viewing angle to minimize glare and reduce neck, back and eye strain—for greater operator productivity. Turns 360 degrees (but not beyond). Slight turning resistance keeps CRT in the desired position and turns only when you want it to turn.

Dimensions: Height 3.75 in. (95 mm); Width 19.5 in. (495 mm); Depth 24 in. (610 mm).



92171T CRT turntable

**92171T CRT turntable** for properly positioning and sharing terminals. Turns 360 degrees (but not beyond) on a strong, positive-position ball bearing mechanism. The putty color matches HP's Computer Workstation Furniture (92210) and HP's Storage/Security Cabinets (92172).

Dimensions: Height 1.25 in. (32 mm); Width 20 in. (508 mm); Depth 24 in. (610 mm).



92171E Footrest

**NEW 92171E Footrest.** Reduce lower back fatigue and 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.

**92171A Copy holder** is easily adjusted; you can position it where you need if for the most efficient reading of copy (see photo page 34).

It clamps to vertical or horizontal surfaces up to 1.25 in. (32 mm) thick, and has a maximum reach of 30 in. (762 mm). The line guide is moveable, and friction locks securely hold the position you have selected.

**NEW 92171B Workstation copy holder.** Placing this copy holder between detached keyboards and CRTs means better productivity and less eye strain for your data entry operators. The holder will tilt at the push of a button from 0° to 90°. The line guide mechanism is finger tip 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 14-7/8 x 11 in. Color is buff (putty). Order several and help increase your data entry productivity.

**92173P Paper transporter.** Tired of lifting and carrying heavy boxes of printer paper to and from your computer area? Use HP's paper transporters. They provide an easy way to move boxes of blank forms and finished printouts from one place to another. The transporters are made of durable steel with non-mar,

double wheel casters and come with their own pull handles. Size is 13 W x 16 D in. (330 x 406 mm). Color is Putty. Order several and save.



### Halon Fire Extinguishers (sold by HP in U.S. only)

Halon 1211 is a "clean" and especially effective fire extinguishing agent for use on or near computer equipment and media. It is easy to use, blankets a fire quickly, and penetrates obscured areas.

- Leaves no residue
- No cold shock to equipment
- No electrical shock to user
- Will not affect most delicate fabrics

**92208B 5 lb. Extinguishing Capacity.** (U/L Rated 10B:C)

**92208C 9 lb. Extinguishing Capacity.** (U/L Rated 1A:10B:C)

**92208D 13 lb. Extinguishing Capacity.** (U/L Rated 2A:40B:C)



92171B Workstation copy holder



## HP Ergonomic chairs



Productive comfort as well as good looks and contemporary styling are built into every HP Ergonomic chair.

Managers, programmers, data entry personnel—all who sit for extended periods of time—will appreciate the convenient multi-axis adjustments which can be made while sitting. As your

work day wears on, changes in seat height, support angle, and changes to the seat back can go a long way toward relieving posture-locked stress buildup. You feel more comfortable because whatever your size or weight, you can find a well-supported and relaxed position in which to work.

### HP Ergonomic chair

Part number	Color	Seat	Chair	Weight
<b>NEW</b> 92209A	Rust	<b>Height</b> 17.2-21.8 in. (410-560 mm)	<b>Height</b> 36.7-41.3 in. (940-1060 mm)	35.2 lbs. (16 kg.)
<b>NEW</b> 92209B	Dove blue	<b>Depth</b> 17.2 in. (440 mm)	<b>Depth</b> 19.9 in. (510 mm)	
<b>NEW</b> 92209C	Beige	<b>Width</b> 18.3 in. (470 mm)	<b>Width</b> 18.3 in. (470 mm)	

In addition to adjustable seat height, the 92209A,B, and C chairs also feature a nine-position, vertically adjustable seat back.

### HP Ergonomic chair with arm support

Part number	Color	Seat	Chair	Weight
<b>NEW</b> 92209M	Rust	<b>Height</b> 16.8-21.5 in. (430-550 mm)	<b>Height</b> 38.2-42.9 in. (980-1100 mm)	30.8 lbs. (14 kg.)
<b>NEW</b> 92209N	Dove blue	<b>Depth</b> 17.2 in. (440 mm)	<b>Depth</b> 23 in. (590 mm)	
<b>NEW</b> 92209P	Beige	<b>Width</b> 17.6 in. (450 mm)	<b>Width</b> 17.9 in. (460 mm)	





HP 92209 series chairs adjust to fit you.

### Ergonomics—the art of making you efficiently comfortable

Two push buttons, conveniently reached while seated, pneumatically control seat height and the tilt of the rear cushion, which provides spinal support to mid-shoulder level. And on the HP 92209A/B/C armless models, the rear cushion has an additional 9-position vertical adjustment.

All our chairs have a five-caster base, and the self-braking

casters additionally contribute to safety by preventing “rollaway” when you stand up.

Our Ergonomic chairs are available with and without arms, and in three colors (Rust, Dove Blue, Beige) to complement almost any decor. And don't forget, our listed prices include truck shipment to you. Order today; we'll ship tomorrow.

## Media and documentation cabinets



92172L Printout binder adapters

### Printout binder adapters

**NEW** Give your existing conventional data binders lateral-hang filing capabilities—in seconds. These adapters are for use with printout data binders that hold 14-7/8" x 11" paper. Each adapter holds printout up to 4 in. (10 cm) thick. Adapters are for use with 92172B and 92172C cabinets. See pages 40-41.

**92172L Box of 10 lt. blue adapters**

**92172M Box of 10 red adapters**

**92172N Box of 10 yellow adapters**



### Library tape rack

**92172E.** Organize your tapes and conserve valuable floor space. Our high-density Library Tape Rack provides time- and space-saving organization of your magnetic tape. Up to 300 of either 600-ft., 1200-ft., or 2400-ft. tape reels in seals may be stored in any combination. Spring-loaded rear panel makes retrieval easy and fast. Library racks are pre-assembled for immediate use and are extremely well built for enduring strength and long life.

Dimensions: Height 79-1/2 in. (200 cm); Width 49-7/8 in. (127 cm); Depth 13-3/16 in. (33 cm).

### Paper transporter

See 92173P on page 37.

NOTE: Discounts apply to quantity purchase of single part number only.



## Media and documentation cabinets (cont.)

**Organization is easy with media storage cabinets.** Save time and effort! HP media and documentation cabinets make organization and retrieval of valuable media and programs a simple, efficient task.

**Ready for immediate shipment.** There's no waiting with HP! We keep these cabinets in stock—pre-assembled—and ready for shipment just as soon as we receive your order.

**Custom HP design.** These cabinets are designed specifically to meet the media, documentation, and supplies storage requirements of all HP system users. Cabinets and doors are designed to match or complement a wide range of HP products. Take a look at the furniture section of this catalog to see how well these cabinets complement our workstation furniture line.

Durable walnut-patterned top.



Documentation/storage shelf has 3 movable dividers. Tall enough (13.75 in., 35 cm) for metric A4 binders.

Mag tape hanger bar securely holds up to 35 reels in seals.

Hanger bar for printouts, with 20 printout hangers included with cabinet. (Mag tape can also be hung from this bar.)

Top roll-out shelf. Moveable (and removable) dividers form up to 14 compartments. Vertical clearance 5 in. (12.7 cm).

Bottom roll-out shelf. Vertical clearance 5 in. (12.7 cm).

Storage 15.25 in. (38.7 cm) high.

Storage 13.25 in. (33.7 cm) high.

Keyed lock for door.



### Workstation/security cabinet

**92172A.** Shelves are all pre-installed. Sent separately are the rugged walnut-grained plastic top, which affixes easily to top of cabinet, and the roll-out shelf dividers which you simply drop in place on either top or bottom roll-out shelf as you prefer. (Media and supplies pictured are not included in cabinet price.) Exterior dimensions: Height 47 in. (119.5 cm); Width 36 $\frac{1}{8}$  in. (92 cm); Depth 18 $\frac{1}{8}$  in. (47 cm).

Cabinet and door are both "putty" color.



The 92172A and 92172B cabinets have convenient roll-out shelves with fully adjustable width/depth dividers; ideal for small supplies like mini data cartridges, plotter pens, printwheels, etc. If desired, dividers may be totally removed for storing disc packs/cartridges or other large items.

### Universal/security cabinet

**92172B.** Shelves and hanger bars are all pre-installed. Sent separately and included in the cabinet price are 20 printout hanger cartridges [light blue color; each cartridge holds printouts up to 1 in. (2.5 cm) thick], and the roll-out shelf divider unit which drops securely onto either top or bottom roll-out shelf. (Media and supplies pictured are not included in cabinet price.)

Exterior dimensions: Height 71 in. (180 cm); Width 36 $\frac{1}{8}$  in. (92 cm); Depth 18 $\frac{1}{8}$  in. (47 cm).

Cabinet and door are both "putty" color.



**Quality construction.** These cabinets are extremely well-constructed of welded steel for enduring strength and reliability, and feature a tambour roll-up door of high-impact plastic for lightness and ease of use.

**Space efficient.** The roll-up door makes efficient use of available space, which means more useful storage space inside the

cabinet for your requirements. When the door is open, access to any part of the cabinet is easy.

**Lock for security.** With the door closed and locked, your valuable media, program listings and supplies are safe from unauthorized access.

NOTE: Necessary attachments and instructions are included with all cabinets.



Documentation shelf is tall enough (13.75 in., 35 cm) for metric A4 binders.

Each mag tape hanger bar securely holds up to 35 reels in seals.

Each printout hanger bar holds up to 28 printout cartridges (Mag tape can also be hung from these bars).

Keyed lock for door.

### Printout/documentation security cabinet

**92172C.** This cabinet has a documentation shelf at top for binders and storage. The printout hanger bars provide a unique method for storing computer printouts and make frequent retrieval of data convenient. Documentation shelf and printout hanger bars are all pre-installed. (Binders and printout hanger cartridges pictured are not included in cabinet price—order these items separately.)

Exterior dimensions: Height 71 in. (180 cm); Width 36 $\frac{1}{8}$  in. (92 cm); Depth 18 $\frac{3}{8}$  in. (47 cm).

Cabinet and door are both "putty" color.

### Printout hanger cartridges

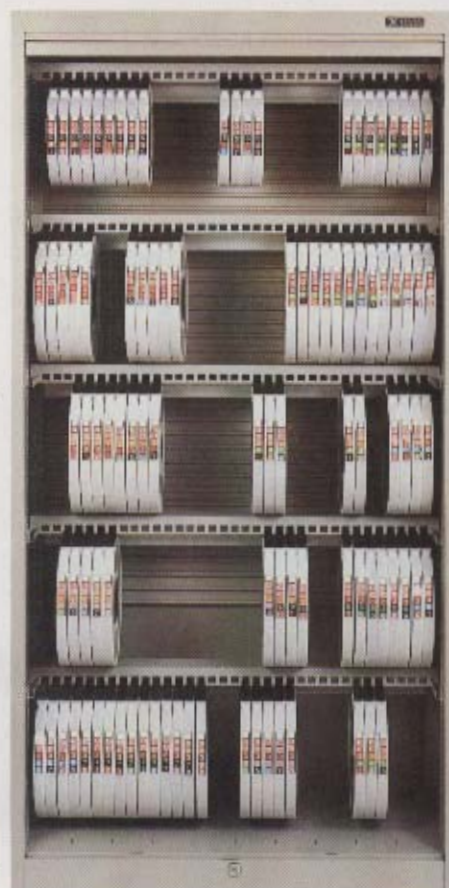
Box of 10 cartridges for use with the 92172B and 92172C cabinets. (NOTE: 20 Lt. Blue Cartridges are included and shipped with each 92172B cabinet.)

Each cartridge can hold printout thicknesses up to 1 in. (2.5 cm) and has adjustable pins to hold any printout where the width between pin feed holes on each edge is between 11 $\frac{1}{4}$ -14 $\frac{3}{8}$  in. (28.5 and 37.9 cm). Cartridges are hinged for easy loading and unloading. Self-adhesive labels are included.

**92172P Box of 10 Lt. Blue Cartridges**

**92172R Box of 10 Red Cartridges**

**92172Y Box of 10 Yellow Cartridges**



### Magnetic tape security cabinet

**92172D.** The tape hanger bars are designed to accommodate one-half inch of industry-compatible magnetic tape in tape seal only. Up to 175 of either 600-ft., 1200-ft., or 2400-ft. reels of tape may be stored in any combination. Spring-loaded rear panel makes retrieval easy and fast. Mag tape hanger bars are all pre-installed. (Media pictured is not included in cabinet price.)

Exterior dimensions: Height 71 in. (180 cm); Width 36 $\frac{1}{8}$  in. (92 cm); Depth 18 $\frac{3}{8}$  in. (47 cm).

Cabinet and door are both "putty" color.



## Static mats

### Take the sting out of static

You can generate up to 10,000 volts of static electricity by just walking around your work area. When you then touch a terminal or other computer equipment, serious damage and data loss can occur.

You can protect yourself and your valuable equipment from

the damaging effects of static discharge simply and inexpensively — with HP static control mats and anti-static carpet mats.

These mats eliminate static problems by draining away static voltage when stepped on by personnel—before they operate the equipment.



92175A Hard-surfaced mat with grounding wire.

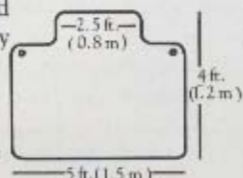
### Static control mats

These mats are grounded so they can never become overloaded with a static charge. A 15-ft. (4.5-m) ground cable is included. It snaps to one corner of the mat with the other end connected to a convenient electrical ground. Static electricity is harmlessly drained from people to ground.

#### 92175A Black hard surface mat

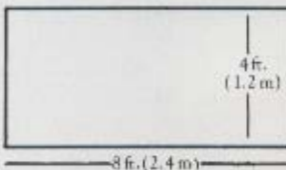
- For Sit-Down Applications—castered chairs will roll easily on mat
- Shaped to fit most desks/workstations
- Volume conductive
- Anti-shock

NOTE: Shipped by truck.



#### 92175B Chocolate brown soft-surfaced mat

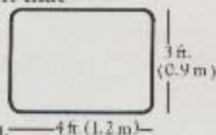
- For Stand-Up Application
  - Cut-to-fit space requirements
  - Intrinsic conductivity
  - Anti-shock
  - Foam backing has both anti-skid and anti-fatigue characteristics
- NOTE: Shipped by truck.



#### 92175C Small black hard surface mat

- For Sit-Down Applications—castered chairs will roll easily on mat
- Ideal for terminal and processing data entry
- Volume conductive
- Anti-shock

NOTE: Shipped by truck.



### Anti-static carpet mats

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 workstation furniture in any work environment, our mats are offered in two warm, neutral colors.

#### 92175C Small black hard-surface mat

Size: 4 x 6 ft. (1.2 x 1.8 m)

92176A Natural color

92176C Russet color

Size: 4 x 8 ft. (1.2 x 2.4 m)

92176B Natural color

92176D Russet color



Russet



Natural



92176C Anti-static mat





## HP Series 80 Computer

### Graphics

**Graphics Presentations.** Prepare professional-quality charts and overhead slides for management meetings, customer presentations, sales meetings, management reports, and much more. Text and illustrations can be easily prepared without programming. Simply respond to a series of easy-to-answer questions to generate text and pie, bar, or line charts. Text and chart labels can use 9 sizes and 3 types of letters. Text can be centered, underlined, or both. Graphs and charts can use 6 different types of lines or 6 types of hatching. †(HP-83: B, E, J, M; HP-85: A, B, E, F, J; HP-86/87: A, J, S, T)

For HP-83/85:

**00085-13038\***

For HP-86/87:

**00087-13002\***

### Statistics/Mathematics

**General Statistics.** A flexible set of easy-to-use statistical routines for data evaluation. Single and paired sample analysis, test statistics, continuous and discrete distributions, and multiple linear regression are included. †(HP-83: M)

For HP-83/85/86/87:

**00085-13003\***

#### Basic Statistics & Data Manipulation.

Provides common database for statistics software pacs (excluding General Statistics above). Routines for data entry, editing, output, sorting, and transformation are included. Computes many basic statistics. †(HP-83: M)

For HP-83/85/86/87:

**00085-13036\***

**Regression Analysis.** Find the relationship between a dependent variable and one or more independent variables.

Polynomial and multiple linear regression (including four variable-selection procedures) routines are provided. A table of residuals is printed. Data entry using Basic Stat & Data Manipulation pac above. †(HP-83: L, M; HP-85/86/87: L)

For HP-83/85/86/87:

**00085-13037\***

**Linear Programming.** Solves a wide variety of optimization problems using a modified simplex method that incorporates variable bounds. Applications include chemical blending, production scheduling, profit optimization, and lots more. †(HP-83: M)

For HP-83/85/86/87:

**00085-13011\***

**Math.** Provides quick access to commonly employed mathematical routines used in calculus, numerical analysis, linear systems, geometry, and more. Full descriptions, plus relevant equations, examples, and other helpful data. †(HP-83: M)

For HP-83/85/86/87:

**00085-13005\***

**Statistical Analysis Pac.** Contains General Statistics (00085-13003), Basic Statistics & Data Manipulation (00085-13036) and Regression Analysis (00085-13037) at a bundled discount price. (HP-83: M)

For HP-83/85/86/87:

**00085-13058\***

### Engineering

**AC Circuit Analysis.** Model your circuit and examine its AC performance quickly and accurately. Determine steady-state AC behavior of electrical networks including resistors, capacitors, inductors, voltage-controlled and independent current sources. †(HP-83: M)

For HP-83/85/86/87:

**00085-13006\***

**Waveform Analysis.** Performs fast Fourier transforms on frequency domain data. Computes correlation function and power spectrum, plus Fourier series coefficients. Double data block entry for cross-correlation, power spectrum, and for convolution. Plot or print output.

†(HP-83: M)

For HP-83/85/86/87:

**00085-13035\***

**Surveying.** Contains group of programs to aid surveyors in many of their most often encountered computations. Fast, easy calculations and maintenance of coordinate points for easy recall. †(HP-83: M)

For HP-83/85/86/87:

**00085-13046\***

**Electronics Engineering Pac.** Contains AC Circuit Analysis (00085-13006), Waveform Analysis (00085-13035) and Math (00085-13005) at a bundled discount price. (HP-83: M)

For HP-83/85/86/87:

**00085-13059\***

†HP 86 and HP 87 computers all require an external printer and disc memory.

See page 45 for additional system elements, if required to operate software pac with HP-83, HP-85, HP-86 or HP-87 Mainframe.



HP Software...part of  
the Hewlett-Packard's  
Manufacturing  
Productivity  
Network.



## HP Series 80 Computer (continued)

### Business

**VisiCalc® PLUS.** This electronic worksheet is a powerful software tool for analysis and solution of complex business and scientific problems. Now enhanced with an extremely useful graphics capability. Any cell in a 254 x 63 matrix may contain a label, numeric value, or calculated result using other cells. Makes financial planning and other analyses easy because the program automatically updates other rows and columns when changes are made. The "PLUS" is an ability to produce line, bar, and pie charts from row and column information without entering new data.

† (HP-83: B, E, J, K, M; HP-85: A, B, E, F, J; HP-86/87: A, J, R, T)

For HP-83/85:

**00085-13042\***

For HP-86/87:

**00087-13001\***

VisiCalc is a registered trademark of VisiCorp.

**Financial Decisions.** An easy-to-use aid in evaluating financial decisions. Programs include: compound interest, loan amortization, discounted cash flow, and depreciation. Interest conversions, bonds, notes, breakeven analysis, and odd-days interest. †(HP-83: M)

For HP-83/85/86/87:

**00085-13004\***

**NEW HP+ WordStar®.** An easy-to-use, screen-oriented word processing system, featuring a series of menus to provide on-screen help for the user. Text is displayed directly on the screen as it is entered, and most formatting takes place immediately. The screen shows a true representation of the printed copy. Block and column move commands allow the movement of text within the document. A three-level training guide is provided to introduce the user to the functions of WordStar. †(HP-86: Q; HP-87: Q)

For HP-86/87:

**00087-16001\***

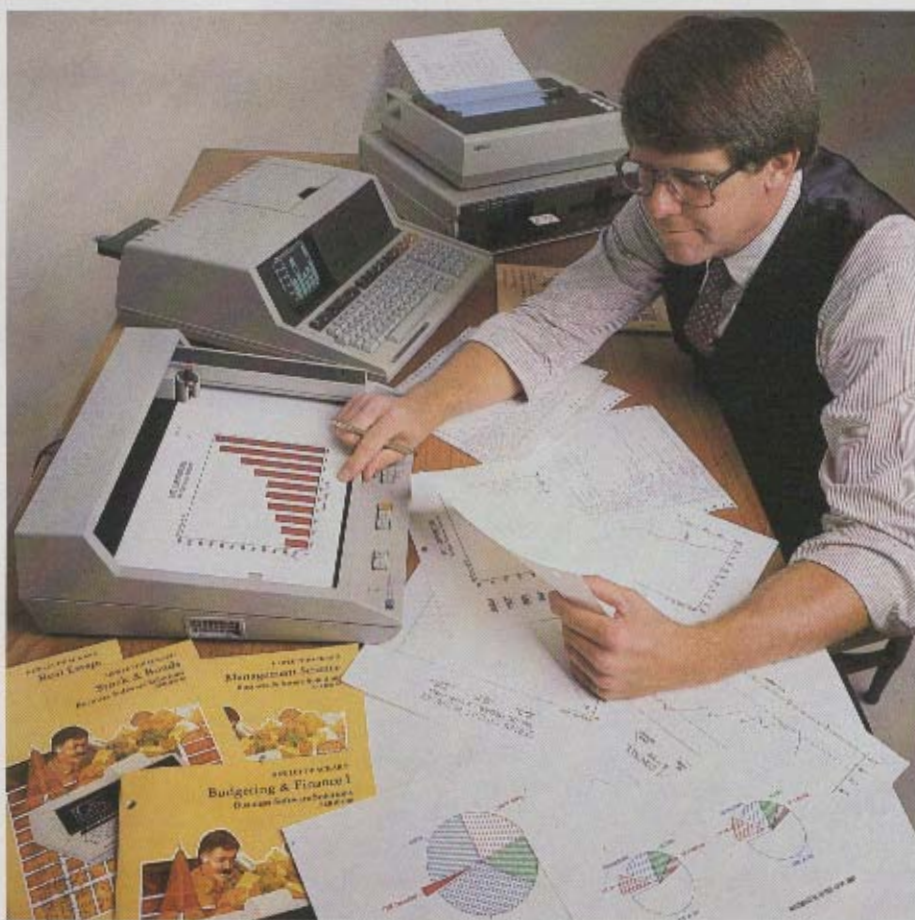
WordStar is a registered trademark of MicroPro International Corporation.

**NEW HP+ SpellStar™.** Check the user's WordStar files for spelling errors. It includes a dictionary of approximately 20,000 English words. Users can supplement the dictionary with their own words, or create entirely new dictionaries. †(HP-86: Q; HP-87: Q)

For HP-86/87:

**00087-16003\***

SpellStar is a trademark of MicroPro International Corporation.



HP-85 Computer, Peripherals and Graphics Presentations Software

**NEW HP+ MailMerge™.** Adds capabilities to WordStar to allow production of form letters, inserting data into printouts, printing multiple copies or creating modular documents using boilerplate files. † (HP-86: Q; HP-87: Q)

For HP-86/87:

**00087-16002\***

MailMerge is a trademark of MicroPro International Corporation.

**Text Editing.** Write memos, outlines and reports on the display screen. Edit copy, save it on tape or disc, or print it. Variable input/output of text files. Tab, plus add, delete, replace, renumber, and move lines. Matched string search and replace. † (HP-83: B, K, M)

For HP-83/85:

**00085-13034\***

**File Manager.** Create a file structure and enter data into it; then perform searching, sorting, reporting and plotting functions within that structure. File Manager can handle up to 1000 records of 1000 bytes each; file size is dependent on the capacity of your mass storage device. Files can be searched on up to 10 conditions. Report results in one of 3 versatile formats, or create attention-getting line, curve, bar and pie charts. On flexible

disc only. †(HP-83: B, E, J, K, M, P; HP-85: B, E, J, M, P)

For HP-83/85:

**88103A\***

**NEW HP+ dBASE II™.** A relational database management system with exceptional capabilities to manipulate data. Records can be accessed sequentially or by a sorted index file. The files themselves can also be sorted. Accessing a record in the maximum size file takes only seconds. Up to 65,000 records per file. Database creation and entry is quick and convenient. Once a database has been created, it can work interactively with the user or under the control of user-written programs. Programs are written using English-like dBASE II™ commands. †(HP-86: Q; HP-87: Q)

For HP-86/87:

**00087-16004\***

dBASE II is a trademark of Ashton-Tate.

**Information Management (IMPac).** Provides a powerful, flexible system for list management. Each record can be 20 to 1024 bytes long. Fields can be defined as Alphanumeric, Numeric-Only, and Dollars. Has Create, Update, Search and Extend programs—plus a querying system, report writer, and extensive graphics



capabilities. On flexible disc only.  
†(HP-83: B, E, J, K, M; HP-85: B,  
E, J, M)

For HP-83/85:

**00085-13045\***

**NEW HP+ MILESTONE™.** A project management and time scheduling product that uses PERT/CPM techniques to increase productivity and management of small projects. It helps project leaders and small business owners clarify the tasks at hand and communicate schedules and priorities.

PERT treats projects as a series of events in a time sequence, and is widely used to track progress. CPM treats projects as a series of activities and is used in project planning. †(HP-86: Q; HP-87: Q)

For HP-86/87:

**00087-16009\***

MILESTONE™ is a trademark of Organic Software, Inc.

**NEW HP+ Professional Tax Plan.** An easy-to-use tax planning package for professional tax and financial planners; including CPAs, attorneys, and financial planners. The program is designed by CPAs and contains current tax laws. It has been fully tested by a major public accounting firm. †(HP-86: Q; HP-87: Q)

For HP-86/87:

**00087-16005\***

**NEW HP+ Estate Tax Plan®.** An estate tax planning package designed for professional tax planners, trust officers, insurance brokers and financial planners. †(HP-86: Q; HP-87: Q)

For HP-86/87:

**00087-16007\***

Estate Tax Plan was developed under the supervision of Dr. William A. Raabe, CPA.

**NEW HP+ Personal Tax Plan.** An easy-to-use tax planning package for individual home users that contains current tax laws. This package was designed by CPAs and fully tested by a major public accounting firm. Manual provides step-by-step instructions. †(HP-86: Q; HP-87: Q)

For HP-86/87:

**00087-16006\***

## General/Utility

**BASIC Training.** Self-teaching course for novice users. Proceed at your own pace. Prerecorded media provides guide to operation and programming. Prepares users for more advanced operations.



HP Series 80 Computer

†(HP-83: M)

For HP-83/85:

**00085-13002\***

For HP-86/87:

**NEW 00087-13004\***

**Games.** Provides an entertaining way to become familiar with the keyboard and operation of the HP Series 80 Personal Computer. †(HP-83: M)

For HP-83/85/86/87:

**00085-13010\***

**Games II.** Graphic, arcade-type games to provide both entertainment and familiarization with the keyboard and general operation of the HP Series 80 Personal Computer. †(HP-83: M)

For HP-83/85:

**00085-13057\***

HP Series 80 software terms, see inside back cover.

CP/M® is a registered trademark of Digital Research, Inc.

†HP-86 and HP-87 computers all require an external printer and disc memory. (H&K below.)

Additional system elements, if required to operate Software Pac with HP-83, HP-85, HP-86 or HP-87 Mainframe:

- A** ROM Drawer (HP 82936A)
- B** Plotter/Printer ROM (HP 00085-15002)
- C** Mass Storage ROM (HP 00085-15001)
- D** I/O ROM (HP 00085-15003)
- E** 16K Memory Module (HP 82903A)
- F** HP-IB Interface (HP 82937A)
- G** Serial Interface (HP 82939A)
- H** Disc Memory (HP 82900-series, 9895A, 9134A, or 9135A)

## HP PLUS software for HP personal computers

All HP Series 80 and HP 125

Computer software marked with the HP PLUS logo **HP+** is developed and supported by independent software companies. This software has been checked through customer references and a Hewlett-Packard evaluation team for quality, ease of use and installation.

**Series 80 HP+ software is available only in the U.S.**



**HP Software...part of the Hewlett-Packard's Manufacturing Productivity Network.**

- J** Plotter (HP 7225B, w/HP 17601A module, HP 9872C, or HP 7470A)
- K** Printer (HP 82905A/B or HP 2671A/G)
- L** Basic Stats & Data Manipulation Software Pac (HP 00085-13036)
- M** Items A, C, F & H listed above
- N** MODEM (HP 82950A)
- P** Advanced Programming ROM (HP 00085-15005)
- Q** CP/M® System (HP 82900A)
- R** 32K Memory Module (HP 82907A)
- S** 64K Memory Module (HP 82908A)
- T** Plotter ROM (HP 00087-15002)



## HP125 Office Computer

### Graphics

**GRAPHICS/125.** Easy-to-use software provides sophisticated local graphics capabilities. No programming knowledge is required to use this software. Professional-quality multicolor graphs and charts are created easily after filling in a menu on the computer display.

Numerical data is transformed into pie charts, bar charts, linear and logarithmic graphs. Graphics are produced on standard paper or overhead transparencies for group presentations.

Required: 7225B w/17601A Interface, 9872C or 7470A plotter and cable.

**45532A\*\***

### Business

**VisiCalc®/125.** Provides a powerful capability to manipulate rows and columns of numerical data shown on the computer display. Each entry may contain a label, number, or a mathematical formula. Data entry is simplified by entering one number and a formula to calculate the remaining numbers in a row or column. A full range of commands are available to calculate totals, averages, net present values, trigonometric and math functions, and more.

"What if . . ." questions can be answered by easily changing assumptions and data in the worksheet. All numbers affected by the change are recalculated immediately and the new results are displayed. Any part of the worksheet (64 columns by 254 rows) can be viewed on the computer display by moving the cursor.

The worksheet can be sent to a printer or saved on disc for later use.

**45531A\*\***

VisiCalc is a registered trademark of VisiCorp.

### HP 125 software updates

Low-cost updates are available for HP 125 software. Each update consists of a new flexible disc loaded with the latest revision of the software and a complete list of documentation changes.

Watch for announcements from Hewlett-Packard about the latest revision and how to order.

**NEW HP CONDOR™ Series 20-1 and 20-2 Database System.** A powerful and user-friendly data management system that allows you to manage your business not your data. This low-cost system allows you to set up a useful database quickly and easily. Save time by updating and entering new information into mail lists, client files and phone number lists.

Pass database information to other HP 125 software, such as WORD/125 or GRAPHICS/125. VisiCalc®/125 worksheets can be read into the database. Generate custom applications using help menus and English-like commands.

The entry-level CONDOR 20-1 (HP 45550A) provides database development and management; entry, update and posting; inquiry and report writing; and complete operations aids. Full relational features for processing multiple database files are provided with CONDOR 20-2 (HP 45550E), or may be added to the entry-level package with the CONDOR UPGRADE (HP 45550K).

**45550A (CONDOR 20-1)\*\***

**45550E (CONDOR 20-2)\*\***

**45550K (CONDOR**

**Upgrade)\*\***

CONDOR is a trademark of Condor Computer Corporation.

**NEW HP WordStar®/125.** An easy-to-use, full-feature word processing system, featuring screen-labeled function keys in addition to standard WordStar control sequences. The function keys guide the user step by step through the document preparation process. The screen shows exactly what will get printed — including all format variations like page breaks, justification and hyphenation. As soon as you type a change, it's on the screen.

Blocks and columns can be moved, copied or deleted. Each paragraph can have its own margins and tabs. Printer output can be set to the HP 2601, HP 2631B, HP 82905B, HP 2671A, HP 125 Internal Printer or a variety of other non-HP printers.

**45560A\*\***

Wordstar is a registered trademark of MicroPro International Corporation.

**NEW HP SpellStar™/125.** A spelling checker program that works with WordStar/125 to find spelling and typing errors in your document. Your document is compared with a dictionary of approximately 20,000 words and unmatching words are flagged. You have the

choice of changing the word, leaving the word alone, or leaving the word alone and adding it to the dictionary. You can even create your own dictionaries of specialized words or names.

**45561A\*\***

SpellStar is a trademark of MicroPro International Corporation.

**NEW HP MailMerge™/125.** A powerful multi-purpose file merging program that works with WordStar/125 to produce form letters, mailing labels, and boilerplate documents. You can combine form letters with a list of names and addresses or you can combine standard paragraphs to form a customized legal document.

**45562A\*\***

MailMerge is a trademark of MicroPro International Corporation.

**WORD/125.** A full-feature word processor program designed for use by office personnel. The computer display screen shows the portion of text being edited. A variety of commands execute corrections, insertions, and move blocks of text on the screen. Finished text can be reviewed before printing. WORD/125 uses screen-labeled function keys to provide a wide variety of powerful commands. The labeled keys guide the operator step by step through the entire document preparation process. WORD/125 also maintains and sorts mailing lists. Mailing lists can be merged with form documents to create "customized" letters. Required: 2601A, or 2631B, or 2671A, or 82905B Serial Printer and cables or 45500A Opt 050 Thermal Printer.

**45533A\*\***

### General/Utility

**LINK/125.** An easy-to-use communications program that transfers data files between the HP 125 and HP 3000 computers. This software turns the HP 125 Personal Office Computer into a distributed processor. Remote files can be accessed, transferred to the HP 125, and processed locally. Results can be stored locally, output to printer, and transferred back to the HP 3000. LINK/125 also provides pushbutton execution of pre-defined QUERY/3000 procedures with inquiry results reported back to the HP 125 screen or local files. Bidirectional file transfers are supported via hardwired or remote connections.

**45534A\*\***



**BASIC/125.** The BASIC/125 interpreter provides one of the most extensive implementations of BASIC available on a microcomputer. Features and performance are provided that are found in languages operating on large minicomputers. BASIC/125 meets the requirements for the ANSI subset standard for BASIC, and it offers many advanced features such as PRINT USING, IF/THEN/ELSE, and ON ERROR GOTO.

**45535A\*\***

**HP 125 Programming Package.** The Programming Package is designed for the programmer writing at the microcode level for the CP/M<sup>®</sup> operating system. Utility programs supplied include an assembler, loader, and debugger for 8080 and Z-80 microcode. Also included is a full reference manual describing the functions of the HP 125 system and how to programmatically access the feature set.

**45536A\*\***

\*\*Order software without option for 5¼-in. flexible disc. Order software with option 080 for 8-in. flexible disc at no additional cost.

HP 125 software terms, see inside back cover. CP/M<sup>®</sup> is a registered trademark of Digital Research, Inc.

## HP 9826A/9836A Desktop Computer

### Graphics

**Graphics Presentations.** Produces bar charts, line charts and pie charts. Featuring 4 character fonts, the pack can also create 7-color overhead slides. This information can be transferred to paper or acetate transparencies.

Required: Opt. 011 or 711, 98256A\*, 9872.

**98815A**

### Statistics/Mathematics

**Statistics Library part I.** Designed as a basic library of general statistics, Part I consists of Basic Statistics and Data Manipulation, General Statistics, Statistical Graphics, and Regression Analysis. A total of 5 discs.

Required: Opt. 011 or 711, 98256\*.

**98820B**

**Statistics Library part II.** Designed as an advanced statistical analysis library, Part II consists of Monte Carlo Simulation Utilities and Routines, Analysis of Variance, and Principal Components and Factor Analysis. It is necessary to have Part I for Part II to run. Part II contains 5 discs.

Required: Opt. 011 or 711, 98256A\*.

**98820C**

**Numerical Analysis Library.** Contains seven main sections: rootfinders, numerical integration, ODE solvers, Eigen analysis, interpolation, general functions and Fourier analysis.

Required: Opt. 011 or 711, 98256A\*.

**98821A**

### Engineering

**AC Circuit Analysis.** Calculates the frequency response of linear circuits. Magnitude, phase, time and impedance plots are available. These plots can include the effects of component tolerances.

Required: Opt. 011 or 711, 98256A\*.

**98825A**

**Linear Systems Analysis.** Provides "classical" tools needed for analyzing single-input/single-output linear systems. The following analysis plots are available; Root Locus, Nyquist, Step Response, Impulse Response and Bode. Linear systems can be in the form of a control system block diagram or a simple transfer function in Laplace (S) notation.

Required: Opt. 011 or 711, 98256A\*, HP-IB printer.

**98826A**

**Waveform Analysis.** Provides discrete mathematical representation of data via Fourier transforms and associated algorithms such as convolution and correlation. Outputs may be displayed, printed or plotted.

Required: Opt. 011 or 711, 98256A\*.

**98827A**

**Digital Filter Design.** Provides the tools necessary for designing digital filters. Includes routines for designing both Infinite Impulse Response (IIR) and Finite Impulse Response (FIR) digital filters. Also included are routines for transforming analog filter functions,  $H(s)$ , to digital transfer functions,  $H(z)$ . Once the pack has computed the filter coefficients, both magnitude and phase plots are available to measure the actual performance of these filters.

Required: Opt. 011 or 711, 98256A\*.

**98828A**

\*256K user RAM may be used in place of 98256A.



HP 9826A Desktop Computer



HP 9836A Desktop Computer



HP Software...part of  
the Hewlett-Packard's  
Manufacturing  
Productivity  
Network.



## HP 9826A/ 9836A Desktop Computer (cont.)

### Business

**VisiCalc®.** Provides a powerful "electronic worksheet" which allows for easy manipulation of numerical data, text and mathematical expressions. "What if . . ." questions can be answered by changing data and assumptions in the worksheet. Any information affected by a change will be automatically updated. Required: 98256A\*.

#### 98810A

VisiCalc is a registered trademark of VisiCorp.

**Project Management.** Analyzes project networks using CPM, PERT, and MPM techniques. The output is in GANTT chart form.

Required: Opt. 011 or 711, 98256A\*.

#### 98817A

**Forecasting.** Allows time-series data to be analyzed, smoothed, forecast and plotted using a variety of statistical techniques.

Required: Opt. 011 or 711, 98256A\*.

#### 98818A

\*256K user RAM may be used in place of 98256A.

### HP PLUS software for HP desktop computers

HP PLUS software is developed and supported by independent software companies for use on HP computers. A variety of HP PLUS Third-Party software is now available, including a FORTRAN and PASCAL compiler for the popular HP 9845 and HP 9835 computers. All HP PLUS software has been checked for user satisfaction, documentation, training and support by references from existing users.

For further details, call your local HP Sales Office (page 68). Be sure to look for new HP PLUS software announcements. For a complete listing of the HP PLUS software, order your own Technical Computer Software Catalog. See page 50.



**HP Software...part of  
the Hewlett-Packard's  
Manufacturing  
Productivity  
Network.**

## HP 9845 B/C Desktop Computer



HP 9845C Desktop Computer

### Graphics

#### Graphics Presentations (9845B/T).

Produces professional-quality, highly effective bar, line and pie charts for management reports and presentations. Features four types of characters. Can be used to create overhead transparencies as well as charts.

Required: 9845B w/98411B (Opt. 311) Graphics ROM and 9872 Plotter. 9845T requires 9872 Plotter.

#### 09845-10540

**Graphics Presentations (9845C).** Same capabilities as for the 9845B/T above (09845-10540), but adds the color graphics capabilities of the 9845C.

Required: 9845C and 9872B/C Plotter.

#### 09845-15230

### Statistics/Mathematics

#### Basic Statistics & Numerical Analysis.

Contains summary statistics as well as routines for entering, editing, naming, recording, sorting, transforming, and listing data for other statistics programs.

Required: 9845B/C.

#### 09845-15100

**General Statistics.** Provides parametric and nonparametric tests for single sample,

paired sample, two independent samples and multiple sample data. Has distributions that eliminate the need for tables.

Includes Basic Statistics (09845-15100) above.

Required: 9845B/C w/Opt. 311, 560, 700.

#### 09845-15130

**Regression Analysis Methods.** Performs multiple linear regression as well as polynomial regression analysis. Variable selection methods using stepwise, forward, backward, or manual procedures. Includes Basic Statistics (09845-15100) above.

Required: 9845B/C w/Opt. 311, 560, 700.

#### 09845-15110

**Nonlinear Regression.** Using Marquardt's Method to fit nonlinear models with up to ten parameters, allows residual analysis. Includes Basic Statistics (09845-15100) above.

Required: 9845B/C w/Opt. 311, 560, 700.

#### 09845-15140

**Analysis of Variance.** Collection of analysis routines for statistically designed experiments. Includes factorial, nested,





split-plot, one-way, two-way unbalanced and one-way covariate designs. Also, routines for generating contrasts, orthogonal polynomials, multiple comparisons and interaction plots. Includes Basic Statistics (09845-15100) above. Required: 9845B/C w/Opt. 311, 560, 700.

#### 09845-15170

##### **Monte Carlo Simulation Utilities.**

Includes advanced random number generators, and random deviate generators for various statistical distributions. Also series of tests which aid in evaluation of simulation studies. Required: 9845B/C.

#### 09845-15160

##### **Principal Components and Factor Analysis.**

Multivariate analysis including computation of principal components, factor extraction (principal axes, or maximum likelihood method), factor rotations, (orthogonal or oblique), and plots of case scores. Includes Basic Statistics (09845-15100) above. Required: 9845B/C w/Opt. 150 or 250.

#### 09845-15080

**Statistical Graphics.** Contains nine routines for plotting statistical data: time plot, histogram, probability plots, X-Y scatter plot, log-log plot, XYZ plot, and Andrews plot. Contains Basic Statistics (09845-15100) above. Required: 9845B/C w/Opt. 311, 560, 700 and 9872 Plotter.

#### 09845-15200

**Numerical Analysis Library.** Contains seven main sections for finding roots, numerical integration, solving ordinary differential equations, Eigen analysis, interpolation, general functions and Fourier analysis.

Required: 9845B/C.

#### 09845-10350

### **Engineering**

**AC Circuit Analysis.** Calculates frequency response of linear circuits. Magnitude, phase, time and impedance plots are available. Plots can include effects of component tolerance.

Required: 9845B/C w/Opt. 150 or 250.

#### 09845-12620

**Waveform Analysis.** Provides discrete mathematical representation of data via Fourier transform and associated algorithms such as convolution and correlation. Output is display, print or plot.

Required: 9845B/C w/Opt. 150 or 250.

#### 09845-12600



HP 9845B Desktop Computer

**Linear Systems Analysis.** Provides classical tools needed for analyzing single input/output linear systems. System can be in form of control system block diagram or simple transfer function in LaPlace notation. Analysis plots include root locus, Nyquist, step and impulse response, and Bode.

Required: 9845B/C w/Opt. 150 or 250.

#### 09845-15190

**Digital Simulation.** Gate-level simulation of digital logic networks. Allows timing and logic analysis with tabular or graph output.

Required: 9845B/C w/Opt. 150 or 250.

#### 09845-12610

### **Business**

**Forecasting.** Allows time-series data to be analyzed, smoothed, forecast, and plotted using a variety of statistical techniques.

Required: 9845B/C w/Opt. 311, 560, 700.

#### 09845-10610

**Project Management.** Analyzes project networks, using PERT, CPM, and MPM techniques. Includes GANTT chart output.

Required: 9845B/C w/Opt. 311, 313, 560, 700, 9885M/S.

#### 09845-11100

**List Management.** Manages a names file sorting, sublisting, editing, and other listing needs.

Required: 9845B/C w/Opt. 560, 600 (or 9871 or 2631).

#### 09845-10630

### **Software support**

HP offers SYSTEMS INFORMATION SERVICES (SIS) for your desktop and personal computers. You can get maximum benefit from your new computer and software by taking advantage of the features of this service.

SIS includes the following:

- Phone In Consulting provides you with telephone access to a trained HP Systems Engineer, enabling you to ask questions regarding problems encountered with HP software or to seek advice on resolving programming difficulties.
- The Software Status Bulletin is a periodic document that includes timely information on the operational status of HP software and documentation. It also includes temporary corrections or workarounds for discrepancies in HP software.
- The Communicator is a very useful periodical containing operational tips, programming techniques and items of general interest for your system.
- Reference Manual Updates are also provided as they are made available to keep your reference library up to date on a timely basis.

HP also offers extensive educational services in support of our systems. Courses are provided for many levels of capability. You can receive this training at many HP locations or at your own facility.

Contact your nearest HP Sales Office (page 68) for more information about the SIS products and HP Training Courses for your specific system. HP 9845 software terms, see page 69.



## HP 2647A Intelligent Graphics Terminal



HP 2647A Intelligent Terminal

### Graphics

**Multiplot and Slide software (rev. F).** Replacement BASIC/Multiplot software on data cartridge for use with the HP 2647A.

NOTE: Rev. F supports the 9872C Plotter.

For 2647A: **02647-13301**

**AUTO PLOT/47.** Replacement AUTO PLOT/47 software on flexible disc for use with the HP 2647F. For 2647F: **02647-13401**

**Graphics Presentation Pac/47.** Contains a variety of useful programs which can be used to prepare graphical presentations of data. The user is guided by an easy-to-use command menu. Programs allow the user to produce a variety of business graphics such as enhanced pie, bar, and linear charts. Additional programs allow the user to create flowcharts, diagrams and organization charts, and electronic circuit drawings.

For 2647A: **13257B**

For 2647F: **13257G**

## Software Catalogs

**Series 80 software catalog.** The Series 80 Software Catalog is a handy reference guide to a growing list of programming solutions available for Hewlett-Packard Series 80 Personal Computers. It includes summaries of HP-developed and HP-PLUS application packages as well as inexpensive contributed programs. Whether you want inexpensive programs to solve specific computing problems or a total software solution, the Series 80 Software Catalog is your guide to the right software to meet your needs.

**5953-7804**

### Statistics/Mathematics

**Statistical Analysis Pac/47.** Offers a variety of programs that provide solutions to the most frequently used statistical operations: basic statistics, curve fitting, regressions, analysis of variance, confidence limits, and more. Many programs provide optional graphical output capability.

For 2647A: **13257D**

For 2647F: **13257L**

**Mathematical Analysis Pac/47.** Offers a variety of programs that provide solutions to the most frequently used mathematical operations. Programs are included for: differentiation, integration, finding roots of polynomials, interpolation, matrix and vector operations, and more.

For 2647A: **13257C**

For 2647F: **13257M**

### Business

**Project Management Pac/47.** Offers a variety of easy-to-use programs to assist project managers to improve planning, control and overall decision making of their projects. Easy-to-communicate visual representations of project status and organization are provided with optional graphic display and color plotter output. Time value of money programs are included, along with CPM and GANTT chart programs.

For 2647A: **13257F**

For 2647F: **13257H**

Order the 93987F kit from your local HP Sales Office to convert your HP 2647A to a 2647F.

**WORD/47.** Friendly word processing software that aids in preparing correspondence, memos, and manual drafts. Features include word wraparound, search and replace, copy paragraph, delete words, sentences, and paragraphs; justify, and indent. Page-formatting software allows the user to output text in a paged format to a printer, disc file or display. A forms design module simplifies and speeds up form and table design.

Requires external printer; HP 2601A or 2631B/G or 2671G or 2673A.

For 2647F: **13257W**

### General/Utility

**LINK/47.** A menu-driven application program for bidirectional file transfer between the HP 2647F and the HP 3000 Computer System. Menu-driven softkeys provide easy transfer of both ASCII and binary files between the HP 3000 system disc and 2647F disc. Provides protection against overwriting already existing data.

For 2647F: **13257N**

**2647A/F File Conversion Kit.** An easy-to-use, menu-driven utility program that transfers ASCII and binary files from the mass storage device of any HP 264X-series terminal to the flexible disc of the HP 2647F. The kit consists of a disc, instructions and a HP 13232U cable. Two data comm cables (HP 13232A/M/N) required, but not included.

For 2647F: **13257P**



HP Software...part of the  
Hewlett-Packard's Manufacturing Productivity Network.

**Series 80 software catalog.** The Series 80 Software Catalog is a handy reference guide to a growing list of programming solutions available for Hewlett-Packard Series 80 Personal Computers. It includes summaries of HP-developed and HP-PLUS application packages as well as inexpensive contributed programs. Whether you want inexpensive programs to solve specific computing problems or a total software solution, the Series 80 Software Catalog is your guide to the right software to meet your needs.

**5953-7804**

**Technical Computer Software Catalog Set.** The set consists of two catalogs and is the reference source of information for:

- HP-developed and HP PLUS software for all technical (and desktop) computers.
- exchange library software for HP 9826, 9835, 9836 & 9845 desktop computers. The catalogs list and describe several hundred programs for: engineering, math & statistics, life and physical sciences, business management and utilities (updated periodically). Catalog buyers can order low-cost Desktop Computer programs from the exchange library.

**5957-4315**

**Business Systems Software Directory.** This directory describes a comprehensive collection of software running on the HP 3000 and HP 250, whether from Hewlett-Packard directly, U.S. and Canadian software suppliers (HP PLUS), or the HP 3000 User's Group Contributed Library. The sources of software are color-coded for easy identification of HP products, HP PLUS referenced and distributed products, listed software and the contributed library. More than 325 pages describing useful programs.

**30000-90251**



## Self paced learning courses



22832A Cobol Kit

### 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 9 audio cassettes (playable on any standard cassette player) with storage binder, 1 student workbook, 1 "COBOL II/3000 Reference Manual" and 1 "Using the HP 3000 Manual." Course completion time is approximately 25 hours.

### 22832-93001 Learning COBOL II/3000 Student Workbook.

Extra workbook for course.



22833A DSG/3000 Kit

### Using HP Decision Support Graphics/3000

If your HP 3000 has Decision Support Graphics/3000 Software and you want to learn how to use it, this self-paced learning course is your answer. It is designed for non-programmers, managerial, administrative and clerical people. The only prerequisite is completion of "A Guided Tour" (see 22835A) or equivalent knowledge of the HP 3000.

#### Course Content:

- Introduction to - Graphing concepts and terminology
- Bar chart design
- Plotter output
- Line chart, scattergram, pie chart design
- Chart enhancement
- Advanced chart design

There are system requirements. Hardware needed: HP 3000, HP 2647A or HP 2648A Terminal. One of the following plotters is recommended but not required: HP 7221A/B/C/S/T, HP 9872A/B/C/S/T, HP 7245 A/C, HP 7225A (17601 or 17604). Software needed: Decision Support Graphics/3000 installed on your HP 3000.

### 22833A Using HP Decision Support

**Graphics/3000.** Course materials include a 1600 BPI magnetic tape (for data cartridge format specify option 022), 2 sets of self-paced booklets (5 booklets per set), Graphing textbook, DSG/3000 manual, DSG/3000 guide, chart sample booklet, plotter pens, paper and complete instructions for the System Manager to install the course on your HP 3000. One terminal per user is required. Course completion time is approximately 10 hours.

### 22833-60001 Self-Paced Booklets.

Extra set of booklets for DSG/3000 course.



22835A HP 3000 Guided Tour Kit

### HP 3000: A Guided Tour

"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
- Data bases - 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 data coded 2011 or later, Editor, IMAGE/3000, QUERY/3000 and V/3000.

### 22835A 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 7 hours.

### 22835-60001 Self-Paced Booklets.

Extra set of booklets for "A Guided Tour."



22839A Using HPWORD Kit

### Using HPWORD

Learn how to use HPWORD with this highly interactive self-paced course. Beginning at a basic level and building to advanced operations, this course is an introduction to the HPWORD word processing system. It is designed for secretarial, clerical, administrative personnel, or others who will use word processing as a regular part of their job. No previous knowledge of either the HP 3000 or other word processing systems is required.

#### Course Content:

The course begins with a basic unit which allows you to become operational on the system immediately, and builds by module to the more advanced features.

- Basic unit
- Simple text modification
- Changing text appearance
- Document formatting
- Paragraph formatting
- Printing a document
- Advanced text modification
- Something extra - rename, copy and delete, etc.
- WORDUTIL

There are system prerequisites for this course. Hardware: HP 3000, HP 2626W terminal, HP 2601 printer. Software: MPE-IV, HPWORD.

**22839A Using HPWORD.** Course materials include a 1600 BPI tape (for data cartridge format specify option 022), one set of self-paced booklets (9), "HPWORD Reference Guide" and an "HPWORD Quick Reference Guide." Complete instructions are included for the System Manager to install the course tape on your HP 3000. Course completion time is approximately 16 hours.

### 22839-60002 Self-Paced Booklets.

Extra set of booklets for using HPWORD.

### 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 data bases 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 or IV, Transact/3000, IMAGE 3000 and VPLUS/3000.



## Self paced learning courses (continued)



22842A Programming in Transact/3000 Kit

### 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.

### Using Dictionary/3000

This self-paced course is an introduction to Dictionary/3000, HP's data dictionary facility. It does not teach data base design but leads you through the steps of defining entries in the data dictionary and of creating and maintaining IMAGE/3000 data bases. This course is designed for the non-technical user and is intended for a Data Base Administrator or for a programmer acting as a Data Base Administrator. Prerequisites for this course are the taking of the course "HP 3000, A Guided Tour" (See 22835A) 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 data bases.

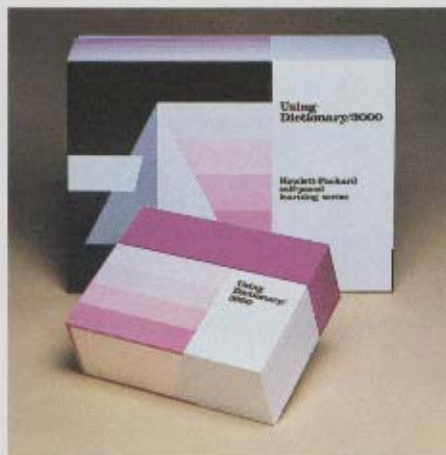
#### Course Content:

- 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 or IV, IMAGE/3000 and Dictionary/3000.

**22843A 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.



22843A Using Dictionary/3000 Kit

### Self-Maintenance Courses

If you wish to maintain, trouble-shoot or repair a 262X or 264X terminal or a 9826 desktop computer, the appropriate self-paced learning kit in this series will provide you with the necessary technical knowledge. The courses are designed for technicians with a knowledge of digital electronics (computer maintenance background preferred.) Completion of a course will allow repair to the major sub-assembly level and performance of scheduled preventative maintenance. Course completion also provides eligibility for certification in the HP Cooperative Support Program (For information about the Cooperative Support Program contact your local sales representative.). Each package contains a training workbook, appropriate service manual(s) and any special small tools required.

#### Course Content:

- General Theory
- Initial Set-up
- Using the Product
- Product Test Procedures
- Product Disassembly and Assembly
- Troubleshooting
- How to Keep it Running
- Options, Accessories and Other Models

Equipment requirements for this course are: working product available for the entire program; a standard DC voltmeter; and a standard technicians tool kit. (Note: for the 9826A course the 9826A Product Support Package listed below must be available.)



35023A HP 262X Terminal Products Maintenance Course.

### NEW 35023A HP 262X Terminal Products Maintenance Course.

Course materials include: 262X Self-Paced Guide; 2621 A/P, 2621B, 2622/23, 2624A, 2624B, 2626A, 2626W Service Manuals; a Final Review Package; and special small tools. Completion time is approximately 24 hours.

### NEW 35061A HP 264X Terminal Products Maintenance Course.

Course materials include: 264X Self-Paced Guide; 264X Composite Service Manual; and special small tools. Course completion time is approximately 24 hours.

### NEW 35062A HP 9826A Desktop Product Maintenance Course.

Course materials include: 9826A Self-Paced Guide; 9826A Service Manual Kit; 9826A CE Handbook; Final Review Package; and special small tools. (Note: The 9826A Product-Support Package listed below must be available to the student during the course.)

**HP 9826 Product Support Package.** Contents: test stimulus board; process extender board; power supply extender board; 3 test connectors; and miscellaneous parts. (To order and for further information contact your local sales office - refer to part 09826-67100. Price .....\$1260.00 ea.)

## Computer documentation

### HP Documentation Index.



This biannual publication provides you with three ways of locating all HP computer and peripheral manuals. The first two sections list manuals under the computer or peripheral product to which they belong. This is especially helpful if the manual's part number is not known. If the part number is known, the third section allows fast reference since it is a listing of all manuals in numerical sequence by manual part number. Listings include title, print date and the latest update - if any. Available without cost. In the U.S. ask for 5953-2460D. Others ask for 5953-2460.

erical sequence by manual part number. Listings include title, print date and the latest update - if any. Available without cost. In the U.S. ask for 5953-2460D. Others ask for 5953-2460.

### Popular reference manuals

For your convenience a listing of the 100 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 found on page I-1.

### 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  
7908 Operator Instructions Manual .....07908-90901

NEW 7908 Operating & Installation Manual .....07908-90902

#### PRINTERS

2630 Printer Family Service Manual .....02631-90910  
2630B Family Service Manual .....02631-90919

#### PLOTTERS

NEW 7470A Graphic Plotter Interfacing & Programming Manual .....07470-90001  
NEW 7470A Graphic Plotter Operating Manual .....07470-90002  
7580A Drafting Plotter Operating & Programming Manual using HP-GL Instructions .....07580-90000  
7580A Drafting Plotter Operator's Manual .....07580-90002  
7580A Drafting Plotter Reference Card .....07580-90003

#### TERMINALS

NEW 2621 A/P Owner's Manual .....02620-90001  
2622 Users Manual .....02622-90001  
2622A/2623A Display Station Reference Manual .....02622-90008



## Computer documentation (continued)

264X Composite Service Manual	02640-90170
2647A User's Manual	02647-90001

### Personal/Desktop Computer Reference Manuals

HP 85 Owner's Manual (English)	00085-90002
HP-85 Owner's Manual (German)	00085-90020
HP-85 Owner's Manual (Japanese)	00085-90032
HP-85 Pocket Guide (English)	00085-90040
HP-85 I/O ROM Manual (English)	00085-90142
<b>NEW</b> Introduction to BASIC Language Manual (English)	00087-90017
HP 125 Owner's Manual (English)	45500-90000
Getting Started with Your HP 125	45500-90010
HP 125 System Reference Manual	45536-90000

<b>NEW</b> 9826A BASIC Manual Kit	09826-87902
9826A BASIC Operating Manual	09826-90000
<b>NEW</b> 9826A BASIC Programming Techniques Manual	09826-90010
9826A HPL Operating Manual	09826-90040
9826A HPL Quick Reference Manual	09826-90045
9826A BASIC Language Reference Manual	09826-90055
9845B/C BASIC Programming Manual	09845-93000
9845B/C Quick Reference Manual	09845-93015

### HP 250 Reference Manuals

MFG/250 Reports Brochure	45180-90080
HP 250 Site Selection Guide	45251-90040
HP 250 General Information Manual	45260-90080

### HP 1000 Reference Manuals

#### OPERATING SYSTEM

RTE-IV Reference Manual	92067-90003
RTE-IVB Getting Acquainted with Manual	92068-90001
RTE-IVB Terminal Users Manual	92068-90002
RTE-IVB Quick Reference Guide	92068-90003
RTE-IVB Programmer's 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-L/XL Operator's Guide	92070-90002
<b>NEW</b> RTE-6/VM Quick Reference Guide	92084-90003
<b>NEW</b> RTE-6/VM Terminal User's Reference Manual	92084-90004
<b>NEW</b> RTE-6/VM Programming Reference Manual	92084-90005

#### SUBSYSTEM/APPLICATIONS

DOS/RTE Library Reference Manual	24998-90001
DS/1000-IV User's Manual	91750-90002
IMAGE/1000 Reference Manual	92069-90001
IMAGE/1000 Data Base 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	92832-90002
RTE FORTRAN 4x Reference Manual	92834-90001

#### GENERAL INFORMATION

HP 1000 E-Series Computer Operating & Reference Manual	02109-90014
Site Preparation and Planning Workbook	02170-90016
Data Systems Customer Support Handbook (2114/15/16, 2100, 21 MX-M & -E Series)	5950-3767
HP 1000 M/E/F Technical Reference Handbook	5955-0282

### 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 Console Operator's Guide	30000-90013
MPE IV System Utilities Reference Manual	30000-90044

Index to MPE Reference Documents	30000-90045
Software Pocket Guide	30000-90049
Using Files - A Guide for New Users	30000-90102

#### SUBSYSTEM/UTILITY

EDIT Reference Manual	03000-90012
F Copy Reference Manual	03000-90064
QUERY Reference Manual	30000-90042
KSAM Reference Manual	30000-90079
V/3000 Reference Manual	32209-90001
V/3000 Operator's Quick Reference Guide	32209-90003
Using V/3000	32209-90004
SOFT-MERGE/3000 Reference Manual	32214-90002
IMAGE/3000 Reference Manual	32215-90003

#### LANGUAGES

BASIC/3000 for Beginners	03000-90025
BASIC/3000 Pocket Guide	03000-90050
Using the HP 3000: An Intro to Interactive Programming	03000-90121
SPL/3000 Reference Manual	30000-90024
SPL/3000 Textbook	30000-90025
BASIC/3000 Interpreter Manual	30000-90026
FORTTRAN/3000 Reference Manual	30000-90040
System Programming Language Pocket Guide	32100-90001
BASIC Compiler Reference Manual	32103-90001

<b>NEW</b> PASCAL/3000 Reference Manual	32106-90001
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

Data Communications Handbook	30000-90105
Data Communications Guide Book	5955-1715

#### INFORMATION SYSTEMS

<b>NEW</b> Dictionary/3000 Reference Manual	32244-90001
<b>NEW</b> Inform/3000 User's Guide	32246-90001
<b>NEW</b> Transact/3000 Reference Manual	32247-90001
<b>NEW</b> HPMAIL Reference Guide - Binder Version	36570-90000
<b>NEW</b> HPMAIL Reference Guide - Paperback Version	36570-90001
<b>NEW</b> HPMAIL Administration Manual	36570-90004
HPSLATE/3000 Reference Manual	36576-90001
Using HP SLATE/3000	36576-90002
TDP/3000 Reference Manual	36578-90001
Using TDP/3000	36578-90002
TDP/3000 Quick Reference Guide	36578-90003

#### GENERAL INFORMATION

3000 Computer Systems Site Preparation Set	30000-60029
Guide to a Successful Installation (HP 3000 Computer Systems)	30000-90135

### Documentation Accessories

#### 92171M Documentation Storage Rack.

Keep your computer manuals, catalogs, and other documentation at your fingertips with our easy-load rack. The unique ring-binder channels are easy to mount and remove - for quick additions, deletions, and updates. The ring-binder design makes it easy to turn the pages - and you see the entire page, even the inside margin! Strong support wings let pages lie open, flat and easy to read.

Each rack comes with six ring-binder channels to hold up to six inches of standard 3-hole punched documentation (8½" x 11"). These racks may be coupled together to build a larger documentation reference system.

Designed for user comfort - the rack is adjustable to either 30° or 45° - for standup or sit-down reference. Start organizing - order your documentation storage rack today.



92171M/L Documentation Storage Rack and Locking Bar

**92171L Locking Bar for Documentation Storage Rack.** This metal security bar with lock set prevents unauthorized removal of your reference documents. For use with No. 92171M.



Documentation Binders

### HP Documentation Binders

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 8½ in. x 11 in. page sizes. All binders are 3-ring style.

**NEW** 9940-4192 1 in. Blue HP Documentation Binder

**NEW** 9940-4196 1½ in. Blue HP Documentation Binder

**NEW** 9940-4622 2 in. Blue HP Documentation Binder

9282-0069 2 in. White HP 3000 System Documentation Binder.

9282-0520 2½ in. White HP 3000 System Documentation Binder.

9282-0658 1 in. Brown HP Documentation Binder.

9282-0659 2 in. Brown HP Documentation Binder.





## NEW Books...books...books!

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, the titles have been organized into major subject areas.

### Specific HP content

#### Programming in PASCAL with PASCAL/1000

Peter Grogono/Addison Wesley 1980  
Help yourself get started in programming with PASCAL. This book explains the computer programming language PASCAL, as described by the DRAFT ANSI Standard and the enhancements to standard PASCAL provided by the Hewlett-Packard PASCAL/1000 Compiler. 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. The book assumes no prior knowledge of other programming languages and is written for those who want to write PASCAL programs.  
**92832-90002**

#### 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 new Hewlett-Packard Interface Loop (HP-IL), an eight bit serial interface designed for small low-cost battery operable systems. HP-IL makes a new generation of portable systems and peripherals possible by linking programmable calculators such as the HP-41C/CV and the new series 80 personal computers to low power, low cost peripheral devices and test equipment.

The first third of the book is an overview of HP-IL. The remainder presents an in-depth description of HP-IL and its inner workings. This includes how to interface with devices not specifically designed for HP-IL and how to design new devices to be compatible.

**92233 A**

### Language and style

#### An Introduction to Programming & Problem Solving in PASCAL

M. Schneider, S. Weingardt and D. Perlman/Wiley & Sons 1978  
This is an excellent general introductory book for the person motivated to learn PASCAL. It 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. This is a recommended reference tool for 9826A/36A PASCAL users.  
**09826-90072**

#### A Simplified Guide to Structured COBOL

D. McCracken/Wiley & Sons 1976  
Learn structured COBOL programming or improve your present abilities. This book assumes no previous background in programming and is suitable for a novice who wants to learn COBOL. It is also valuable for experienced programmers who want to learn structured programming or improve their proficiency. Structured programs are easier to understand, quicker to debug and simpler to maintain. This book is non-mathematical and offers many case studies, problems and a "hands on" feel.

**92233 E**

#### BASIC 2nd Edition

R. Albrecht, L. Finkel and J. Brown/Wiley & Sons 1978  
Teach yourself BASIC with this step by step self-teaching guide. This book is suitable for the novice who has never programmed before. Every BASIC command is explained using a short working program and then illustrated in a variety of business applications. It should be remembered that BASIC varies slightly from computer to computer so users should consult their machine's reference manual for clarification of these differences.  
**92233 D**

### Starting FORTH

L. Brodie/FORTH, Inc. 1981  
Find out about FORTH and learn to program the language everyone is talking about!!! HP now offers a MultiFORTH package (a version of FORTH) through HP PLUS which is being used on the 9826A/36A to control multiple processes. Since a copy of "Starting FORTH" is included with the MultiFORTH package, purchasing this book is an inexpensive method of finding out about FORTH.

If you have already purchased the HP PLUS package, use our catalog as a convenient source of second copies of the book. "Starting FORTH" begins with fundamental principles, covers a full set of high-level FORTH commands and concludes with advanced techniques and style. The presentation assumes no prior knowledge of computers and is useful for both the novice and advanced programmer.

**92233 G**

### Elements of Programming Style

B. Kernighan and P. Plauger/McGraw Hill 1978

Improve your programming style by reading and using this "classic" book. It's a study of real programs, each of which provides one or more lessons in style. The shortcomings of each program are discussed, rewritten in a better way and a general rule is drawn from each case. The book takes a practical and useful approach to the subject rather than a theoretical one. It is useful for the beginner or the experienced person who wants to improve or refresh these skills. The examples are given in Fortran or PL/I, but the principles are applicable in all languages including assembly code.

**92233 H**

### Books for managers

#### Mythical Man-Month

F. Brooks/Addison Wesley 1982  
A collection of essays on the management of computer programming projects by an eminent computer expert and project manager. The author passes on valuable lessons learned from experience by combining facts about software engineering with practical approaches to problems. Personal conclusions are also presented, as well as those gathered from fellow builders of complex systems. The central argument is that large programming projects have management problems different from small projects due to division of labor. This book explores the difficulties of preserving the conceptual integrity of the project itself and methods of achieving this goal. The essays are intended for professional programmers, managers and especially managers of programmers.

**92233 L**





### Psychology of Computer Programming

G. Weinberg/Van Nostrand Rheinhold 1971

Weinberg argues that programming is not just a matter of hardware and software. Learn about human psychological factors affecting computer programming that are as important, if not more important than, the actual hardware. Too often programmers, managers and other people involved with the programming process neglect or discount the fact that programming is a human activity. This book has been referred to as a "classic" in its subject area. It has much food for thought for anyone associated with the programming process.

92233M

### 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. The management methods presented are based on a "life cycle" approach to programming with the reader being guided through a programming job from start to finish. Everything you need to consider to successfully organize and manage a project is discussed. Topics covered include: the cycle, definition, design, programming, testing, acceptance, installation and operation. Also covered are how to construct plans for: outlining; introduction; organization; testing; change control; documentation; training; reviewing; installation and operation.

92233P

### Professional reference

#### Art of Computer Programming – Volumes I, II, & III

Donald Knuth/Prentice Hall 1973, 1981 and 1973

These volumes are known as "classic" technical references in their subject areas by programmers, system analysts and software developers worldwide. If you already own part of the set, buy one or two to complete your personal or company library. If you don't own any of the volumes, consider purchasing the entire set as a valuable reference tool.

#### Volume I: Fundamental Algorithms

This is a unified, readable and theoretically sound summary of computer programming techniques for information structures. It includes representation of information inside the computer, and structural interrelationships between data elements and how to deal with them efficiently. Also covered are applications to simulation, numerical methods, software design and other factors.

92233S

#### Volume II: Seminumerical Algorithms

Included here are readable, coherent and up-to-date summaries of the major paradigms and basic theory of semi-numerical algorithms. Topics are covered in two major subject areas:

Random Numbers: generation, statistical tests, other random quantities, and random sequence.  
Arithmetic: positional number systems, floating point arithmetic, multiple precision arithmetic, radix conversion, rational arithmetic, polynomial arithmetic and manipulation of power series.

92233T

#### Volume III: Sorting and Searching

Though largely self-contained, this is a logical sequel to Vol. I. It includes a comprehensive survey of computer techniques for sorting and searching and extends the treatment of data structures, considering both internal and external memories and both large and small data bases.

92233U

#### Fundamentals of Interactive Computer Graphics

J. Foley and A. Van Dam/Addison Wesley 1982

This excellent, complete and up-to-date book presents 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 covered 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 transformations, projections and bicubic surfaces
  - hierarchical data structures for graphics
  - the first comprehensive treatment of color theory practice for computer graphics

92233X

#### An Introduction to Database Systems

C. Date/Addison Wesley 1981

This is a best seller in the field of relational, hierarchical and network databases. It is a comprehensive "basic" course intended as an advanced text or professional reference book. The reader is expected to have a reasonable knowledge of the capabilities of a modern computer system with particular reference to the file handling features of such a system.

92233W

#### Computer Networks

A. Tanenbaum/Prentice Hall 1981

This comprehensive introduction to computer networks emphasizes 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. This book is an excellent choice if you want a thorough introduction to this expanding field.

92233V

### Other titles of interest

#### Osborne CP/M® User Guide

T. Hogan/Osborne-McGraw Hill 1981

Learn to utilize more fully the CP/M® operating system of your computer. Written for all levels of expertise, this book introduces the reader to CP/M's function within a microcomputer system as well as the use of built-in and transient commands, assembly language utilities, high-level languages and applications programs. A CP/M command summary and a listing of CP/M compatible programs, languages, and products are found in the appendices. For helping you modify programs or for simply increasing your operating system knowledge, this up-to-date book will be a valuable resource.

92233Y

#### VisiCalc®: Home and Office Companion

D. Castlewitz and L. Chisauksy with P.

Kronberg/Osborne-McGraw-Hill 1982

Here's a book for both beginners and experts that fully exemplifies this popular software program. For the novice, it contains 50 models that can be used immediately for personal and business applications. For the experienced user, it's a source of new ideas and techniques. Conveniently arranged by application, the book provides models for loans and investments, advertising and sales, inventory control, personnel, household aids, and more. Each model includes the VisiCalc® entry grid, a descriptive narrative, and sample printed report.

92233Z





## **HP terminals – the perfect addition to your HP computer system**

HP terminals are specifically designed for optimum performance with your HP system. Two of our most popular models are shown here – and

we have many additional models from which to choose. Be sure to call your local HP sales office when it is time to add terminals to your HP system.





## Hewlett-Packard's lowest cost terminal is a smart addition to your system

**HP 2621B Interactive Terminal.** The HP 2621B terminal combines ease of use with reliability in our least expensive model. This character mode terminal contains a feature set that improves user productivity and satisfaction in a wide variety of applications, including: data inquiry, data access and updating, general time sharing, and program preparation and development. The HP 2621B offers the following features:

**High resolution display** reduces operator fatigue and gives a more pleasing appearance to displayed information.

- Full 128 ASCII character set
- 9 x 15 dot character set with half dot shift
- Adjustable brightness and focus controls

**Two full pages of memory** (48 lines) double the accessible work space.

**Easy to use** terminal increases productivity by simplifying operation and reducing learning time.

- Typewriter style, detached keyboard with imbedded numeric keypad
- 8 screen-labeled control keys are user definable

**Full editing capability** allows easy modification of previously typed lines.

- Character, Line and Modify mode editing
- Character and Line insert and delete
- Full tabulation and adjustable margins

**Reliability and serviceability** built in with low component count and modular construction.

- Go/no-go diagnostic self test

**Hard copy (Option 050)** is given by a convenient integral thermal printer.

- Fast, quiet printing with the 120 character per second thermal printer
- Uses 92160A/B thermal paper



**2621B Terminal**  
**Option 050 Printer**

The HP 2621B uses a HP 262X-port 2 type cable with a 25 pin connector.

## The executive-sized HP 2382A terminal makes the job of managing more manageable.

**HP 2382A Office Display Terminal.** The HP 2382A terminal is a space saving, low-cost, block mode display terminal that doesn't intrude into your work environment. Professionals and managers find it ideal for many data inquiry applications. Its human-engineered design and aesthetic styling make it both easy to operate and attractive in any office setting. The HP 2382A provides the following features:

**Easily readable display** has crisp, clear characters in a 24 line by 80 column format with 4 display enhancements to distinguish between, or highlight, different kinds of data.

- 9 inch diagonal high resolution display
- Full 128 ASCII character set
- 9 x 15 dot character cell with half dot shift
- Two full pages (48 lines) of continuous scrolling memory

**Human engineered** to reduce operator fatigue and give a friendlier feel.

- Etched display surface and carefully chosen viewing angle reduce lighting glare
- Detached keyboard with familiar typewriter key layout
- Adjustable brightness and focus controls

**Easy to use,** powerful features for the novice or experienced user.

- 8 screen labeled softkeys can be user defined

- Local editing can be performed in either Block/Forms mode or Modify mode
- Cursor control and display roll up/down keys speed editing and session time
- Self test provides the user with immediate verification of proper operation

**Block/Forms mode** increases productivity by improving data accuracy and data throughput.

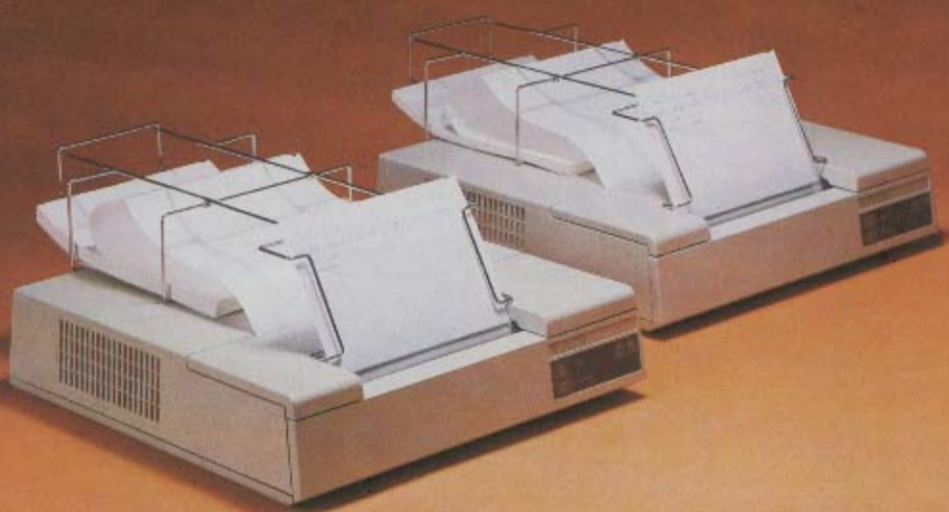
- Software compatible with HP 2622A (and HP 2640B) and can be used with VPLUS/3000 data entry and forms management software
- Review, edit and transmit blocks of text or data
- Display familiar office forms on screen with 64 character line drawing set (Option 202) and 4 display enhancements
- Enter data only into unprotected fields where it belongs



**2382A Terminal**  
**Opt. 202 Line Drawing Set**

The HP 2382A uses a HP 262X-port 2 type cable with a 25 pin connector.





## Duplicate your terminal display on crisp, clean, hard copy.

**HP 2671A Printer/HP 2671G Graphics Printer.** The HP 2671A/G is an ideal addition to your workstation terminal. With push button ease it lets you instantly reproduce what appears on your terminal screen. These low cost, high quality thermal printers also provide full-width page printing for HP Personal or Desktop Computers. They are simple to connect and easy to use. And you can use flat, fan fold paper if you want to avoid the curl of roll-type papers.

### HP 2671 A/G: Terminal Compatibility Guide

Terminal	HP 2623A	HP 2624A & 2626A	HP 2640B (Display Copy Only)	HP 2642A	HP 2645A	HP 2647A	HP 2648A
Recommended Printer	HP 2671G Opt. 040	HP 2671A Opt. 040	HP 2671A Opt. 044	HP 2671A	HP 2671A Opt. 044	HP 2671G	HP 2671G
Terminal Options Required, Factory Installed	Standard	Standard	1323BA Duplex Register Card††	Opt. 096 Shared Peripheral Interface††	1323BA Duplex Register Card and Opt. 007 Integrated Dual Car- tridge Tapes††	Opt. 096 Shared Peripheral Interface††	Opt. 096 Shared Peripheral Interface & Opt. 007 Integrated Dual Car- tridge Tapes††
Cable Required	13242- 60010	13242- 60010	13232J	HP-IB†	13232J	HP-IB†	HP-IB†

### HP 2671A/G: Personal/Desktop Computer Compatibility Guide

Computer	HP 85/86	HP 87	HP 125	HP 9825B/T	HP 9826A/ 9836A	HP 9845B/ 9835A/B
Recommended Printer	HP 2671G	HP 2671G	HP 2671A	HP 2671A	HP 2671G	HP 2671G
Computer ROM/Interface Required †	82936A ROM Drawer, 00085-15002 Plot/Print ROM, 82937A HP-IB Interface	HP-IB Interface Supplied with HP 87	HP-IB Interface Supplied with 125	98034B HP-IB Interface (Order from Local HP Sales Office)	HP-IB Interface Supplied with HP 9826A or 9836A	98034B HP-IB Interface (Order from Local HP Sales Office)

† Order one of the following HP-IB cables: 31389A/B/C, 10833A/B/C/D.

††Contact your local HP Sales Office to order required terminal options if they are not presently installed. HP 2645A and 2648A Terminals without Opt. 007 Integrated Dual Cartridge Tapes require Device Support Firmware.

The HP 2671A/G provides these features:  
**Fast, quiet, high quality** thermal printing.

- 120 character per second bi-directional printing
- Full 128 USASCII character set
- 7 x 11 dot matrix character font within a 9 x 15 dot cell provides excellent character definition with true descenders

**Versatile printing modes** to meet a variety of printing requirements.

- Print forms on your terminal display with the line drawing character set
- Normal mode prints 80 characters per line
- Compressed mode prints 132 characters on an 8 inch line
- Underline character enhancement

**Simple front panel controls** for form feed, paper feed, self test and printer reset.

**Easy interfacing** with standard HP-IB or optional RS-232C (Option 040) and HP-parallel (Option 044) interface.

The HP 2671G has all the features of the 2671A, plus built in graphics intelligence.

- High resolution, dot-for-dot graphics copies from HP raster devices
- 90 dots per inch horizontal and vertical resolution
- 720 dots across a raster row

#### 2671A Printer

**Option 040** – Delete HP-IB, add RS-232C interface

**Option 044** – Delete HP-IB, add HP parallel interface

#### 2671G Graphics Printer

**Option 040** – Delete HP-IB, add RS-232C interface

Save valuable workstation surface space by ordering a 92171F Printer Stand. It provides a level surface on the top of your 264X-series terminal for the 2671A/G Printer. It also has two slots for the front feet of the thermal printer to hold it securely on the stand.

Order 92160 A/B/N thermal paper, cables, workstation furniture and other accessories from this catalog.

The HP 2673A Intelligent Graphics Printer offers enhanced printing and graphics. Order from your local HP Sales Office.



HP 9826/36

HP 125

HP Series 80

HP 2671G

HP 7470

HP 82905B

HP 82901M

HP Series 80 ROMs pictured on page 62

## Five easy ways to expand your HP personal computer system

You can easily enhance your HP personal computer with HP peripherals and plug-in modules. Increase your computing power and generate professional graphics and a variety of reports with these high quality, low-cost peripherals. Presented in this

catalog you will find all the items you need to expand your HP personal computer: peripherals, ROMs, interfaces, cables, software, extra documentation, accessories and supplies.





## Show them what you want to say

**NEW HP 7470A Personal Computer Plotter.** Data can be analyzed faster with graphic plots and overhead transparencies. Trends are easier to interpret, relationships easier to grasp. And your audience can understand and retain more information when you present it graphically. The affordable HP 7470A plotter and software give you high-quality graphics and offer the following features:

**Superior line quality** gives smooth, pleasing lines and curves.

- High resolution of 0.001 inch

**Fast plotting** improves operator productivity.

- Up to 15 inches per second line speed
- Up to 5 characters per second annotation

**Colorful graphics** with two pens under program control give a more professional appearance.

- Up to 10 colors for plotting on paper
- Up to 7 colors for overhead transparencies

**Versatile writing system** plots two line widths on paper and overhead transparency.

- Two standard media sizes (8½ x 11 inches and 210 x 297 mm)
- Automatic capping minimizes pen dry out



## Increase computer productivity with a full-width page printer

**HP 82905B Dot Matrix Printer.** Get printing versatility by adding an HP page-width dot matrix printer to your system. Print financial planning worksheets, program listings, memos with customized letterheads, CRT graphics, specialized multipart forms, mailing labels, and more. The HP 82905B is a high quality, low cost printer that is easy to connect to your Personal/Desktop Computer and features:

**Flexible output** for a variety of tasks with 5 print modes, a 96 ASCII character set in a 9 x 9 dot matrix cell.

- 72 x 60 dots per inch graphics
- Up to three part forms

**Efficient throughput** to increase productivity with fast, bidirectional, 80 character per second printing.

**Versatile printing** from built-in logic that gives user selectable page length, text length and line spacing.

- Automatic perforation skip mode
- Adjustable forms tractors

**Easy to use** printer saves operator learning time.

- HP code compatible with HP 2631B and HP 2621A/G printers

**Low cost of ownership** due to reliable operation and long life ribbon cartridge.

- Self diagnostics test checks operating readiness
- Low cost service contracts reflect reliability



## For more storage, faster response and improved reports add our dual disc drive to your system.

**HP 82901M Dual 5¼ Inch Flexible Disc Drive.** Spend more time making decisions and less time compiling data. The HP 82901M Flexible Disc Drive, in combination with one of HP's information management software packages, generates reports from large quantities of data stored on flex disc memory. You can quickly create a data base, enter your data and obtain reports. This disc drive allies the speed of random access with the convenience of removable media. These features are ideal for business and professional applications requiring low-cost, on-line access.

The HP 82901M offers the following features:

**540 kilobytes of storage** on double sided, double density discs

**Easy backup** of critical information with the dual drive configuration

**Qualified media** for reliable, lasting performance

**Proven reliability** which is reflected in low-cost, worldwide maintenance agreements

If you require more storage than available with the HP 82901M, contact your local HP Sales Office to order the HP 9895 Dual 8 Inch Flexible Disc Drive (offering 2.3 Megabytes of storage and data ex-



**Intelligent plotter** gives professional quality graphics.

- Up to 7 dashed-line fonts
- Symbol plotting
- Five character sets
- Annotate in any size and direction, with or without slant

#### 7470A Opt. 002

Order HP 7470A supplies from this catalog: plotter pens, paper and overhead transparencies, software, Series 80 ROMs and interfaces and HP-IB cables.

### HP 7470A: Computer Compatibility Guide

Computer	HP 85	HP 86/87	HP 125
<b>ROM Required</b>	<b>82936A</b> ROM Drawer, <b>00085-15002</b> Plotter/Printer ROM	<b>82936A</b> ROM Drawer, <b>00087-15002</b> Plotter ROM	Included
<b>HP-IB Interface</b>	<b>82937A</b> HP-IB	HP 86: <b>82937A</b> HP-IB HP 87: Included	Included
<b>Software Required</b>	<b>00085-13038 Rev. C</b> Graphics Presentations (Requires 82903A 16K Bytes Memory)	<b>00087-13002</b> Graphics Presentations (Requires 82908A 64K Bytes Memory)	<b>45532A</b> Rev. A.01.01 GRAPHICS/125

HP 7470A Plotter Option 002 (HP-IB Interface) is required, along with an HP-IB cable.

**Easy interfacing** with HP-IB (Option 002) or parallel Centronics-type (Option 242)

#### 82905B Opt. 002

#### 82905B Opt. 242

Order HP 82905B printer supplies and accessories from this catalog: 92156A ribbon cartridges, 92157A fanfold paper, 92171F printer plotter stand, HP-IB cables, workstation furniture, and Series 80 ROMs and interfaces.

### HP 82905B: Computer Compatibility Guide

Computer	HP 85	HP 86	HP 87	HP 125, 9826A, 9836A
<b>HP 82905B Option No.</b>	002	242	002	002
<b>Graphics Printing</b>	Yes	Yes	Yes	No
<b>ROM/Driver Required</b>	<b>82936A</b> ROM Drawer, <b>00085-15002</b> Plot/Print ROM	Included	Included	Included
<b>Computer Interface Required</b>	<b>82937A</b> HP-IB	Printer Interface Included	HP-IB Included	HP-IB Included
<b>Cable Required</b>	<b>10833</b> A/B/C/D	<b>82957A</b>	<b>10833</b> A/B/C/D	<b>10833</b> A/B/C/D

change with IBM 3740 formats) or the HP 913X-series of Winchester and Winchester/Flexible Disc Combination Drives (offering 4.6 Megabytes of storage for on-line, heavy duty applications).

HP 82901M requires an HP-IB cable. One HP-IB cable is supplied with each HP 87/125/9826A/9836A and 82937A. Order additional HP-IB cables for other peripherals. HP 9826A Operating Systems supplied before BASIC 2.0 require the Basic Enhancement Binary to operate discs in BASIC. The HP 86's recommended disc drive is the HP 9130A.

Order flexible discs and other HP 82901M accessories from this catalog: 92910A flexible discs, flexible disc storage items, Series 80 ROMs and interfaces, 10833A/B/C/D HP-IB cables, software, workstation furniture.

### HP 82901M: Computer Compatibility Guide

Computer	HP 85	HP 87	HP 125	HP 9826A, 9836A
<b>ROM Required</b>	<b>82936A</b> ROM Drawer, <b>00085-15001</b> Mass Storage	Included	Included	Included
<b>Computer Interface Required</b>	<b>82937A</b> HP-IB	HP-IB Included	HP-IB Included	HP-IB Included
<b>Recommended Information Management Software</b>	<b>88103A</b> File Manager, or <b>00085-13045</b> IMPac	<b>00087-16004</b> dBASE II (Requires 82900A CP/M® System)	<b>45550A/E</b> Condor Series 20	n/a





## Expand the computing power of your HP Series 80.

You can easily upgrade the computing power of your HP 85/86/87 personal computer with these Plug-In Modules, ROMs and Interface Modules.

To order these items, contact your nearest HP sales office or your local authorized HP personal computer dealer.

### HP Series 80 Plug-In Modules

These modules expand the available user memory, add CP/M® System or provide mounting for firmware enhancement ROMs. Each module can plug into any one of the four ports in the back of the computer.

#### 82903A 16K Memory Module for HP 85.

Adds 16K bytes internal read/write memory to the HP 85. Each HP 85 will only accept one 16K byte memory module.

**82907A, 82908A, 82909A Memory Modules for HP 86/87.** The HP 82907A adds 32K bytes internal read/write memory to an HP 86/87. The HP 82908A adds 64K bytes. The HP 82909A adds 128K bytes. Up to four modules can be used for a maximum of 544K bytes.

**82900A CP/M® System.** The CP/M System extends the HP 86/87 by providing a wide variety of software solutions. It adds a Z-80 microprocessor and 64K bytes of dedicated RAM.

CP/M is a registered trademark of Digital Research, Inc.

**82928A System Monitor.** Provides the necessary hardware to aid in developing and debugging assembly language programs for HP Series 80 Personal Computers. The HP 00085-15007 (or 00087-15007), 82928A and 82929A form a complete set of tools.

**82929A Programmable ROM Drawer.** This drawer lets you use the firmware created with the Assembler ROM in Series 80 Computers. You can plug in standard EPROMs that you program yourself in your own code.

**82936A ROM Drawer.** Provides mounting for up to 6 of the firmware enhancement ROMs—shown below. Plugs into any port on the back of a Series 80 Computer. Only one ROM drawer can be used at a time.

### HP Series 80 Firmware Enhancements (ROMs)

These enhancements are contained in ROM plug-in modules. HP ROMs are used to enhance the capabilities of Series 80 software or integrate peripherals into a Series 80 system. These firmware modules plug into the Series 80 Computer via the 82936A ROM Drawer.



**00085-15001 Mass Storage ROM.** Provides you the capability to interface the HP 85 with the HP 8290X-series Flexible Disc Drive or the HP 9134A/9135A Winchester Disc Drive. Consumes 150 bytes of available user memory. (Mass storage ROM capability is built into the HP 86/87.)

**00085-15002 Plotter/Printer ROM.** Provides the capability to interface the HP 85 with HP's high resolution graphics plotters and full-width line printers. Consumes 373 bytes of available user memory.

**00087-15002 Plotter ROM.** Allows data to be transferred from the HP 86/87 to an HP plotter. Also provides single commands to dump CRT graphics and alpha screens to any HP dot matrix printer. (Print and graphics commands for transferring data to an HP printer are included in each HP 86/87.)

**00085-15003, 00087-15003 I/O ROM.** Provides straight forward input/output commands that enhance the HP Series 80 BASIC language capability. Consumes 416 bytes of available user memory.

**00085-15004 Matrix ROM.** Gives you a powerful set of statements and functions for working with arrays on the HP 85. Both matrices (2-dimensional arrays) and vectors (1-dimensional arrays). Consumes only 69 bytes of available user memory.

**00085-15005 Advanced Programming ROM.** Extends your control over data, programs and HP 85 system operations with the functions, statements and commands provided in this ROM. Consumes only 132 bytes of available user memory.

**00085-15007, 00087-15007**

**Assembler ROM.** Provides the capability to write customized assembly language programs that can be executed from Series 80 user memory or burned into EPROMs. Consumes only 124 bytes of available user memory. Use with HP 82928A and 82929A.

## HP Series 80 Interface Modules

A variety of useful interface modules are available to connect peripherals and other devices to your series 80 Personal Computer. The interface modules plug into any one of the four ports in the back of a Series 80 Computer.

**82937A HP-IB Interface.** The Hewlett-Packard Interface Bus (HP-IB) is an easy-to-use hardware and software interface system that permits bidirectional, asynchronous communication among a wide variety of instruments and peripherals. It implements the IEEE 488-1978 Standard

Digital Interface for Programmable Instrumentation and allows your HP computer to communicate with up to 14 HP-IB compatible devices per interface, with a total of no more than 20 meters of cable.

**82938A HP-IL Interface.** The Hewlett-Packard Interface Loop (HP-IL) is a bit serial interface that combines low power, small size and low cost. With HP-IL, you can interface as many as 30 devices, with up to 10 meters of cable between each device.

**82939A Serial Interface (RS-232C).** The Serial Interface is the RS-232C compatible interface for the Series 80 Personal Computer. It provides bit serial asynchronous data communication is a common means of communicating between a computer and peripherals such as terminals and printers. The standard 82939A is terminated with an RS-232C female connector for use with the HP 2601A Printer (with its supplied cable). Option 001 is terminated with an RS-232C male connector for use with modems and some non-HP printers.

**82940A GPIO Interface (Parallel).** This is a general purpose byte (8-bit) or word (16-bit) oriented interface commonly used with printers, paper tape readers and punches, card readers and special instrumentation. It has two output-only 8-bit

ports and two bidirectional 8-bit ports. They can be used as separate 8-bit ports or as 16-bit ports.

**82941A BCD Interface (Binary Coded Decimal).** This interface supports interfacing with BCD instrumentation, such as voltmeters, multimeters, medical systems and weighing systems. It provides the mainframe with 11 digits of 4-bit BCD input or output data plus 4 sign bits for one or two channels.

**82949A Printer Interface.** Provides interface for the HP Series 80 Computer to drive printers requiring a standard parallel Centronics-type interface. This output-only interface consists of a plug-in module and a captive cable, terminated with a standard Amphenol-type, 36 pin connector.

**82950A Modem.** Provides data communications in the U. S. for HP Series 80 Personal Computers. It is a serial, asynchronous, full duplex modem which operates at speeds of 110 or 300 baud. It connects directly to the telephone line and is compatible with Bell 103/113 Modems. Features automatic answering, automatic dialing and log-on, five sets of special function keys and includes the data communications software.

## HP Series 80 Plug-In Module, ROM and Interface Guide

Computer	HP 85	HP 86/87
<b>NEW</b> Plug-In Modules	Memory Modules	82907A (32K bytes) 82908A (64K bytes) 82909A (128K bytes) 82900A 82928A 82929A 82936A
	CP/M System Module	n/a
	System Monitor	82928A
	Programmable ROM Drawer	82929A
	ROM Drawer	82936A
<b>NEW</b> ROM Modules	Mass Storage ROM	00085-15001
	Printer/Plotter ROM	00085-15002
	Plotter ROM	See 00085-15002
	I/O ROM	00085-15003
	Matrix ROM	00085-15004
	Advanced Programming ROM	00085-15005
	Assembler ROM	00085-15007
<b>NEW</b> Interface Modules	HP-IB Interface	HP 86: 82937A HP 87: Included
	HP-IL Interface	82938A
	Serial (RS-232C) Interface	82939A Opt. 001
	GPIO Interface	82940A
	BCD Interface	82941A
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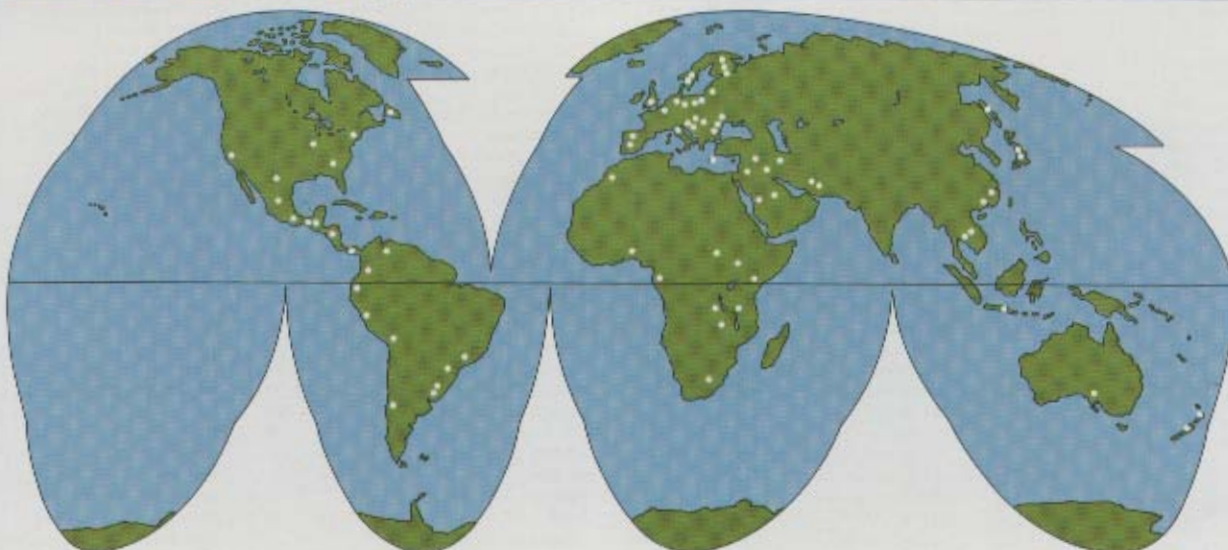


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92172B storage security cabinet	40	92210P printer stand	36	9270-1006 plot paper	23	98827A Waveform Analysis	47
92172C printout cabinet	41	92210Q suspended drawer unit	35	9270-1007 plot paper	23	98828A Digital Filter Design	47
92172D mag tape cabinet	41	92210R storage module	35	9270-1023 metric plotter paper	23	9940-4192 binder	53
92172E mag tape rack	39	92210S Triangle table connector	35	9270-1024 metric plotter paper	23	9940-4196 binder	53
		92210T terminal table	36	9270-1027 metric plotter paper	23	9940-4522 binder	53
		92215A 15-meter cable	31	9270-1042 metric plotter paper	23		
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		92217B 15-meter cable	32				



## Sales office listing



### Canada, Central and South America

#### ARGENTINA

\*1095 Buenos Aires  
Tel: 37-9020  
1640 Buenos Aires  
Tel: 792-1293, 798-5735

#### BRAZIL

Alphaville  
Tel: 421-1311  
22471 Rio de Janeiro-RJ  
Tel: 286-0237

#### CANADA

Mississauga, L4V 1M8  
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Richmond, V6X 2W7  
Tel: (604) 270-2277  
Winnipeg, R3H 0Y1  
Tel: (204) 786-6701  
Calgary, T2H 2H8  
Tel: (403) 253-2713  
Dartmouth, B2Y 3Z6  
Tel: (902) 469-7820  
Ottawa, K2B 8K1  
Tel: (613) 820-6483  
Edmonton, T5M 3T9  
Tel: (403) 452-3670  
London, N6E 2S5  
Tel: (519) 686-9181  
Kirkland, H9J 2M5  
Tel: (514) 897-4232  
Moncton, E2B 2V0  
Tel: (506) 855-2841

Willowdale, M2J 1R5  
Tel: (416) 499-9333  
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Tel: (418) 687-4570

#### MEXICO

Mexico City  
Tel: (905) 676-4600  
Monterrey, N.L.  
Tel: 78-42-93/40/41

#### VENEZUELA

Caracas 1071  
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Blackburn, Victoria 3130  
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North Ryde, N.S.W. 2113  
Tel: 887-1611  
Parkside, S.A. 5063  
Tel: 272-5911  
Claremont, W.A. 6010  
Tel: 383-2188  
Fyshwick, A.C.T. 2609  
Tel: 80-4244  
Spring Hill, Queensland 4000  
Tel: 229-1544

#### HONG KONG

Tel: 5-8323211

#### JAPAN

Suginami-ku, Tokyo 168  
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Osaka, 532  
Tel: 06-304-6021  
Nagoya, Aichi 450  
Tel: 052-571-5171  
Yokohama Kanagawa, 221  
Tel: 045-312-1252  
Kumagaya, Saitama 360  
Tel: 0485-24-6563  
Mito, Ibaragi 310  
Tel: 0292-25-7470

#### MALAYSIA

Kuala Lumpur 23-03  
Tel: 943022

#### NEW ZEALAND

Wellington  
Tel: 877-199  
Epsom, Auckland  
Tel: 687-159

#### SINGAPORE

Singapore 9115  
Tel: 631788

#### SOUTH AFRICA

Durban 4067  
Tel: 28-4178  
Pretoria  
Tel: 982043  
Sandton, 2144  
Tel: 802-5111  
Cape Province, 7450  
Tel: 53-7955/56/57

#### TAIWAN

Kaohsiung  
Tel: 241-2318  
Taipei  
Tel: (02) 751-0404

### Europe, North/Central Africa and Middle East

#### AUSTRIA

A-8052 Graz  
Tel: 291-5-66  
A-4020 Linz  
Tel: 0732 51585  
A-1222 Vienna  
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#### BELGIUM

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#### CZECHOSLOVAKIA

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#### DENMARK

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Tel: (90) 455 0211  
SF-40720-72 Jyväskylä  
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Cédex Orsay  
Tel: (6) 907-78-25  
F-69130 Ecully Cedex  
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#### GERMAN FEDERAL REPUBLIC

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D-7030 Böblingen  
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D-4000 Düsseldorf  
Tel: (0211) 5971-1  
D-2000 Hamburg 60  
Tel: (040) 63804-1  
D-8028 Taufkirchen  
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#### IRAQ

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#### IRELAND

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#### NETHERLANDS

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N-5033 Fyllingsdalen  
Tel: (05) 16-55-40

#### SCOTLAND

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E-Madrid 16  
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E-Madrid 34  
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S-421 32 Västra-Frölunda  
Tel: (031) 49-09-50

#### SWITZERLAND

Ch-1219 Le Lignon-Geneva  
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CH-1202 Geneva  
Tel: (022) 32-48-00

#### UNITED KINGDOM

Winnesh, Wokingham  
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#### USSR

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\*Personal Computing Products

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Geneve

#### ASIA

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## Ordering information

### Where to order

Hewlett-Packard has local offices (see page 68) and computer supplies distribution centers located both inside and outside the USA. In addition, we maintain a high-speed computerized communications network between most HP locations, worldwide. We use this network to help us process your orders efficiently and to get them quickly transmitted to the appropriate supplies distribution center.

To place your order or to get additional information, such as the current price for products delivered to your location, please contact the HP office nearest you.

### Order by telephone

Special fast-order direct phone lines for computer supplies are now available in many countries—including the ones listed below—offering on-line price and availability information, as well as fast order entry:

<b>UNITED STATES</b> .....	800-538-8787
California .....	408-738-4133
<b>UNITED KINGDOM</b> .....	0734-792868
	0734-792959
<b>WEST GERMANY</b> .....	07031-667829
	07031-223133
<b>THE NETHERLANDS</b> .....	020-470639

Of course, orders may be placed in the regular way through local HP sales offices in areas not yet served by these special phone lines.

### Supply prices

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To confirm the current price of any item in this catalog, in local currency and delivered to your location, please contact the HP office nearest you.

### Quantity discounts

You can achieve substantial savings by taking advantage of our quantity discounts, which are available for most HP computer supply items.

Whenever it is practical for you to order an individual supply item in a larger quantity, you save in these ways:

**Unit Cost**—Your unit cost (our selling price) for that item is lower.

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### Terms of sale

#### Inside the USA and Puerto Rico

Terms **net 30 days** from invoice date if credit with Hewlett-Packard has already been established. Otherwise shipments will be made COD or on receipt of cash in advance. **Minimum of \$20 per order** applies.

### Outside the USA

Terms are determined by the Hewlett-Packard international sales subsidiary or authorized representative/distributor.

### Shipping methods

Shipments to destinations outside the USA are made from the appropriate Hewlett-Packard facility by either surface or air methods, as requested.

Because of customs formalities and the longer shipping times to many parts of the world, we highly recommend you maintain extra supplies in reserve—especially where their availability is critical to your operation.

In addition, supply items which are essential for continued computer product performance are often stocked by Hewlett-Packard within your country to ensure ready availability, when needed.

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