A Personal Way of Computing

The HP Touchscreen and
The HP Touchscreen MAX

MEET THE TOUCHSCREEN AND TOUCHSCREEN MAX PERSONAL COMPUTERS

They've got all the popular software and system solutions you want. And you don't have to go through mental gymnastics to apply them.

The HP Touchscreen comes with two double-sided disc drives. Each microfloppy disc offers almost *twice* the standard formatted capacity of the IBM PC.

For people with even greater information management needs, we offer the Touchscreen MAX. It comes with a double-sided microfloppy drive *and* a 14.8-Mbyte formatted capacity Winchester disc drive. The fast, reliable, high-capacity Winchester lets you easily and efficiently handle complex applications with lots of data, such as data bases, general accounting, and integrated programs.

You start getting your money's worth almost as soon as you get your computer out of the box.

Thanks, in part, to our new, easy-to-follow manuals, the touchscreen, and the Personal Applications Manager, for MS™DOS made friendly.

And thanks to the simple-to-use but powerful applications you get with your computer: Personal Card File, and MemoMaker word processing. Plus you get the challenging electronic card game Winning Deal.
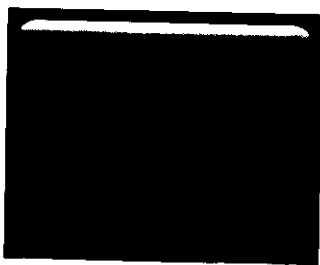
HP REAL PEOPLE

You're about to meet ten of the many Touchscreen and Touchscreen MAX owners. They're proof that while HP computers work exceptionally well in traditional offices, it's impossible to pigeonhole these powerful, remarkably versatile machines.
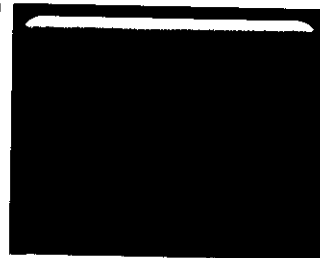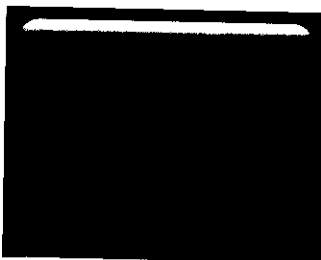
Read on and you'll find them being used in some unconventional places. Saddled in a computer rack in a general contractor's pickup truck. Set smack in the middle of an opera house. Ensconced in a secluded mountaintop cabin. And located in some other spots you may find surprising.

You just might find an application that reminds you of you. And of your own special personal computing needs.

THE HP TOUCH

Get into Personal Card File, WordStar,® VisiCalc,® or other applications simply by pointing at the desired label on the screen.

With Personal Card File, you touch the screen again to view an entire card. You've got the point!

1

U nder Thomas Munn's direction, a lighting crew experiments with the way a light is going to affect the stage of the San Francisco Opera House. Munn will record the results on his computer for use in later performances.

A CERTAIN SLANT OF LIGHT

If you had but a moment to strut and fret upon the stage, you'd want it put in the proper light by Thomas Munn, Lighting Designer for the San Francisco Opera. Munn starts with detailed drawings and 3-D models provided by the set designer. He ends with a marvelously complex design that, to a large extent, determines how we perceive—and remember—the characters and events on stage.

"The Touchscreen MAX can help me take some of the guesswork out of where light will fall during a performance.

I implement my lighting designs in the opera house through a crew of about 15 electrical technicians. I sit in the middle: Row M, center aisle, balancing and polishing the final lighting design. The Touchscreen MAX helps me direct, schedule, and arrange both people and electronics. All the focuses, colors, location, circuitry, and other details are meticulously recorded, using the Winchester drive.

Generally, by opening night the lighting is set. But a sudden change can happen, such as when we get a last-minute substitute artist. Or if a director decides to change the lighting for a certain scene.

Such changes require us to painstakingly go through every one of the numerous lighting cues.

We're going to create a program on the computer to make changes of this kind much simpler. And the daily maintenance and recording of data on the computer will reduce the amount of paper and help us resolve design problems in advance.

We'll have more time to do creative work."

D iane Jensen, soon to receive her doctorate in psychology, plans to hold some client sessions outdoors on the grounds surrounding her office. She'll research different cases long distance by calling up computerized services through her modem.

A MOUNTAIN OF ONE'S OWN

Without ever leaving her two pet goats or rustic, 100-year-old cabin on a lovely, secluded mountaintop, Diane Jensen attends school. Using a Touchscreen MAX equipped with a Hayes modem, she is researching and writing her dissertation for the Fielding Institute in Santa Barbara. The school is offering the first fully accredited, off-campus program for a doctorate in psychology.

"I hate leaving the mountain.

Fortunately, I rarely have to, because I can access subscription data bases via my Hayes communications modem: Knowledge Index, Medline, Books in Print, and Psych Info. I order the articles through the mail, or I have my daughter pick them up for me.

I send the papers I write directly to my professor at the Institute via the modem. Some of my fellow students do the same thing from the East Coast. So a student can type a paper in one time zone, and the professor can grade it in another.

A dissertation may have to be revised as many as 25 times. Having it on the computer shortens the editorial process. And since I've got a Winchester drive, I've got plenty of storage space for revisions.

There are a number of reasons I prefer the Touchscreen MAX. For one, I'm a touch typist. I didn't care for the Apple, and the IBM keyboard didn't respond right. A keyboard makes a real difference when you're typing as fast as I do.

I like the speed with which you can get into programs, and the soft keys at the top of the keyboard so I don't have to use complex commands. The sharp clarity of the screen keeps my eyes from getting tired so easily."

Jesse Hodges, a maestro of the audio signal processor, prepares the music recording studio for an afternoon session. No stranger to electronic equipment, he appreciates the ease of use of the Touchscreen MAX. "Even my 16-year-old daughter uses it to do light work for me after school. She really likes the HP Touch."

Framed by the imposing Sierra Club banner, Lorraine Vallejo keeps tabs on classified advertisers for the Club's magazine. She finds that it's easy to update accounts on the Touchscreen between sales calls.

RECORDING FOR THE STARS

With a hint of merry mischief in his eyes, feisty Jesse Hodges describes his function at Hollywood Sound Productions as "chief petty officer, janitor, and accountant." The studio—one of the oldest music recording studios in the L.A. area—rents recording equipment, though they also provide engineering support and do some recording.

"I've got an exciting job. You don't hear the music that happens in this studio for another six months. We're there when the hits are being made.

We're using the Touchscreen MAX to keep track of arrangers, engineers, clients, and others. Record producers come in and go right to the computer. They can look up their own account if they want. They don't even have to speak to the traffic clerk or secretary.

We're also a management firm for producers. We've been using HP plotters with the Touchscreen MAX to plot a curve or pie chart representing the money spent producing an artist.

We've had every major act... Michael Jackson, Diana Ross, Barbara Streisand... they're either here or have been here. But you've never seen personalities like show-biz personalities. We get yelled at a lot. We yell back sometimes. There's always a conflict when you combine creative and technical processes. I love it.

The Touchscreen MAX helps me when I want to take a look at how the company is doing in terms of inventory, and accounts receivable and payable. Condor™ 20-3 is helping us become more efficient in those areas. Isn't that the way the little Hewlett-Packard butterfly is supposed to work?"

ADS FOR THE EARTH

Lorraine Vallejo, classified ad sales manager for Sierra magazine, is one of about 50 people at the Sierra Club using HP computers. The club is an environmental watchdog organization that depends on membership fees and donations for most of its revenues. A practical woman with a deep commitment to her work, Lorraine says "the majority of people who come here do so because they want to work for a socially responsible organization."

"I got interested in the Touchscreen when I saw a program that directly relates to my work—Personal Card File. When the little cards started flipping on the screen, I quickly realized that it could help me keep track of our more than 200 classified advertisers. I'm using it with MailMerge™ to generate letters and mailing labels for magazine promotions.

I'm responsible for projecting how large the classified advertising section will be for each issue. I do that by looking at previous years' ad growth, and then figuring out how many pages I'll need.

Eventually, we'd also like to set up our sales reps with Touchscreen systems so they'll have instant access to advertising files on the Sierra Club's HP minicomputer. We'll use AdvanceLink to send electronic mail to our reps in New York and L.A. That will save valuable time.

We're using MemoMaker, Multiplan,™ and WordStar.® And we're now training on 1-2-3™ from Lotus™ to do budget projections.

I feel lucky. The advertisers, mostly small businesses, never let me forget our higher purpose. They're always telling me how much they appreciate the job we're doing, such as saving a river that a group of raft outfitters depend on for their livelihood."

Woody Nelson is another convert to Hewlett-Packard. "I originally wanted an Apple Lisa. The Touchscreen MAX was the best choice. I like the touchscreen. It's very fast and really helps me do my job. And we've received great support."

Nelson is a Systems Technologies Estimator for Wismer and Becker. He writes estimates for computer-aided dispatch systems for fire, police and emergency medical personnel, railroad signaling systems, telecommunication systems, and other projects.

"A customer gives me a set of engineering specifications and asks me how much a job will cost and how we're going to do it. My final product is an estimate I hope will be lower than everyone else's.

There are constant frustrations. A prospective client tells you to place your bid before a certain date—otherwise forget it. And the figures change constantly, often at the last minute.

When I was using just a calculator, making a minor change in a bid would take at least five or six hours. With the Touchscreen MAX, I can make the same change in minutes.

I now spend a lot more time asking "what-if" questions and redoing the estimate. It's a much more productive use of my time.

The longer the computer sits there, the more ways we think of to use it. For example, we're now using the Touchscreen MAX for virtually every phase of Marketing and Bids and Proposals. We even use it for sophisticated engineering tasks in radio communications."

oody Nelson of Wismer and Becker has got the educated guess down to an exact science. There can be as many as 20 bidders on one contracting project. "It's hectic," he says, "but I can easily juggle multiple projects on my Touchscreen MAX."

John Kedenburg is a methodical, thorough man with clearly defined goals. "My main objective," he asserts in an accent evoking his childhood in Hamburg, "is to put this company on the map." Kedenburg is Vice President for Spinform Industries, which makes everything from jet parts to automotive wheels with a state-of-the-art metal-forming process.

"When I saw the ads for the Touchscreen, I decided it was perfect for my work. I use it in supervising the management team, which consists of manufacturing, engineering, and sales. I'm currently doing our organizational charts on the computer. We're also using 1-2-3™ from Lotus,™ WordStar,® MailMerge,™ and SpellStar™ for a variety of purposes.
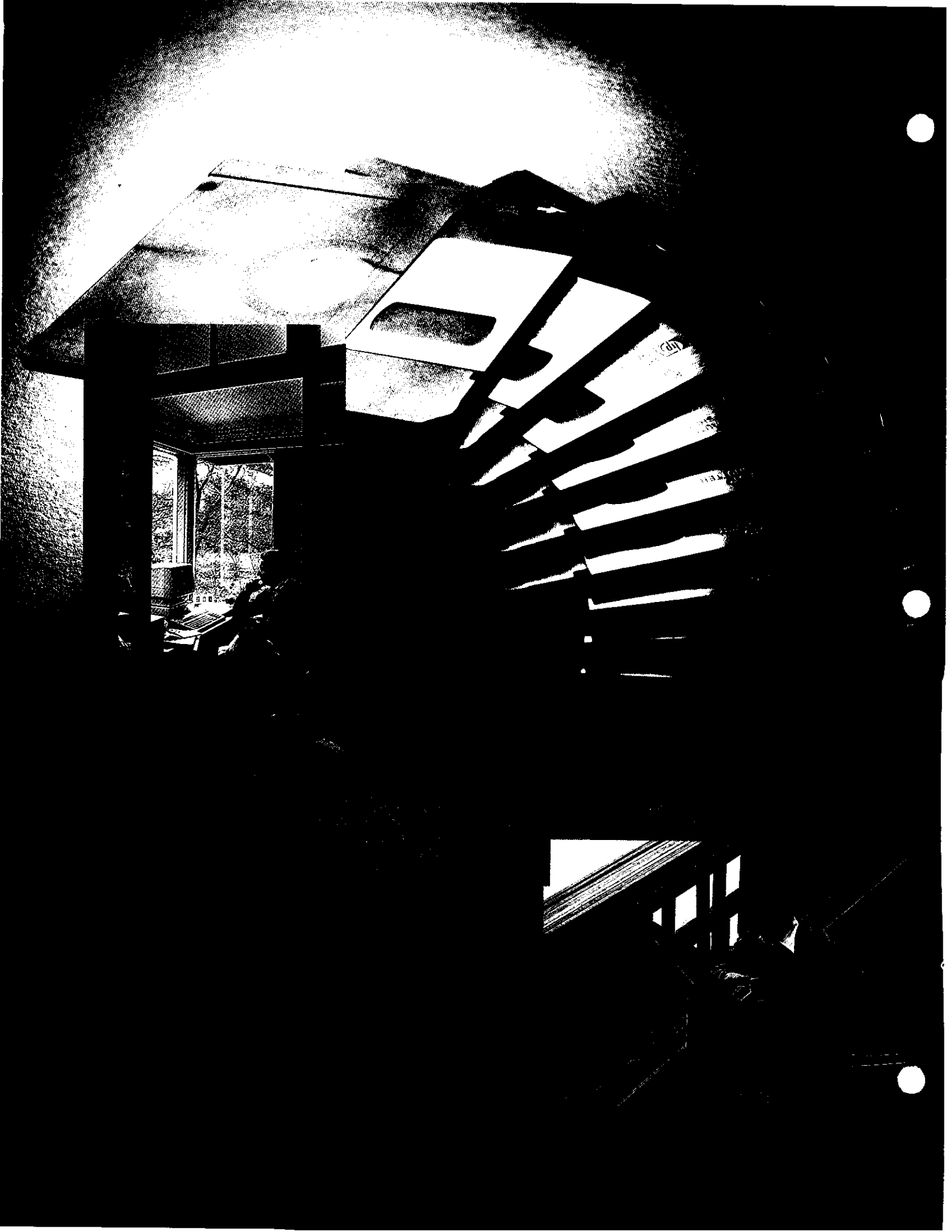
I took a programming course some years ago. As soon as I get time, I'd like to write my own programs in BASIC for accounting and processing purchase orders. Right now we're using the BPI General Accounting program.

I'll admit, I've been spoiled. These days when I get a new project, my first thought is, 'Can I do it on the computer?'

The satisfying aspects of my job are getting the operation to run smoothly and watching the company grow. The best way to make those things happen is to get input from all the people involved.

To ensure a group effort, I want to get as many Touchscreens as possible to be satellites to an HP minicomputer. Then everyone will get to participate in the decision making process.

Everything will be organized."

ne of John Kedenburg's employees tailors a special metal part for a customer. "The most challenging thing is to get an order in on time," Kedenburg says. "The only way you can grow is through customer satisfaction." He hopes to expand his HP Touchscreen systems, adding ipherals and data communications solutions as the company grows.

Third-generation publisher Leigh Freeman is using his Touchscreen MAX at home to compile an annual directory describing about 5,000-6,000 paper mills around the world. He transfers his work to the HP minicomputer (shown right) in his company's headquarters office so his co-workers can access the data.

Independent software producer Charles Truax describes how his application with HP Touch will help fabricators produce superior trusses (background) more easily and efficiently. The owner of the lumberyard where he's sitting plans to use his software on a Touchscreen Personal Computer at the retail counter.

COMMUTING BY COMPUTER

While other suburbanites fight rush hour traffic, Leigh Freeman often works out of his pleasant home in the hills. A cultured, soft-spoken man, Leigh is a Vice President in the firm his grandfather founded, Miller Freeman Publications.

With HP, it's all in the family. Miller Freeman III, the treasurer, also has a Touchscreen MAX at home and one at his office. Marshall Freeman, the president, doesn't have one yet, but he will soon.

"I'll use an internal modem in my Touchscreen MAX at home to transfer information to and from the HP minicomputer at work. I'll be able to spot areas where our expenses are out of line and perform ad rate analysis. Those things are easier to do at home. The phone isn't always ringing, and my secretary can't interrupt.

Touchscreens will give our managers and department heads immediate access to a general ledger program, and circulation and financial records on the big computer. No more waiting for the monthly report.

My aim is to employ the best qualified editors and managers possible and to provide them with the best equipment available.

In fact, I'm switching from an Apple III I was using at work. We're going to be thoroughly standardized.

I'm thankful for the Touchscreen MAX. It's made learning to use the computer easier. I've resisted becoming a computer expert. I don't want to be a programmer or learn BASIC. My business is publishing."

RAISING THE ROOF

After 10 years of working for large companies, programmer and engineer Charles Truax decided to start his own company, Touchware. At times he works out of his home not far from Lake Tahoe. Truax, who exudes the confidence of the self-made man, has developed a software program for the retail lumber and wood truss industries.

"There are about 15 companies that offer computer or time-sharing systems for these industries. My program is the only one you can use on a *personal* computer. It's the most inexpensive alternative, because the only costs are the initial purchase of my software, the Touchscreen, and the electricity it takes to run it.

I chose Hewlett-Packard over IBM because the HP computer has more power and graphics capabilities, as well as the easy-to-use touchscreen.

Let's say an architect designs a new roof. The truss fabricator can use the touchscreen to help him come up with the structural support for that design. They can change the truss shapes on screen by just pointing at the joints.

My program can also be used at the lumber retail counter. The clerk can order, keep inventory, and produce invoices. And he can select different trusses and other items by simply touching icons on screen.

I don't need much to write software, except my background and my Touchscreen MAX. It usually only takes a few seconds for something to come up on screen. HP has made one fast computer."

uss Beldon pores over blueprints for a contracting bid he prepared with the help of his Touchscreen Personal Computer.

ave personal computer will travel. Russ Beldon proudly displays the HP Touchscreen set in its specially built computer rack. "Our last job was on a geothermal power plant over at the geysers," Beldon said. "I used the computer in the truck to prepare the subcontracting bid, which was over a quarter of a million dollars."

erched in his corporate aerie overlooking San Francisco, Dave Mitchell of Standard Oil of California links up with his company's IBM mainframe computer using the Touchscreen 3278 Emulation Accessory.

PAVING THE WAY

Russ Beldon bought an HP-45 calculator in 1969. Fifteen years later, he's using it in his estimating work for Mendocino Paving, a general contractor doing paving, earth moving, and underground work. "It's been on bulldozers with me, dropped in mud, and exposed to rain and snow," Beldon enthuses, "but it keeps on working. It's one of the reasons I went to HP for a personal computer."

"One of my men built a rack in my pickup truck for my Touchscreen. I often take it home at night, and I also routinely take it with me to sites in the field.

I'm using a Hayes modem for communication between the computer in the field and the Touchscreen MAX in the office. Time is critical; I can't always wait until I get back to call in a bid. And I can even get a permanent record using the internal printer.

We're using the Condor data base for preparing bids. I determine how much a contract will cost us and even how much it might cost our competition. Equipment rental rates, salaries, culvert pipe prices—you name it—it's all on the computer. And I can do all this in hours—thanks, in part, to the Winchester drive. Before, it took days.

My HP dealer spent about a half a day helping me get started. He's offered good support and supplies. Heck, we're just construction stiffs, not computer programmers. Still, now we can do just about anything we want with Lotus™ 1-2-3.™ It only took me a few days to set up my own estimating program."

AN EXAMPLE TO EMULATE

As Manager of the Technology Division at Standard Oil Company of California, Dave Mitchell wears many hats. He's in charge of planning, professional education, research, and productivity tools. And he manages professional trainers, software engineers, and scientists, among others. He's using the Touchscreen 3278 Emulation Accessory to transfer data to and from his company's IBM mainframe computer.

"I hook up with the IBM 3081 mainframe when I'm processing notes and messages from all the section managers who report to me, as well as from all the other division managers and my boss.

The internal printer also gives me an advantage. If I want to copy a screen, I merely touch PRINT, and I've got it on paper. The guys with IBM terminals connected to the 3081 have to go down the hall when they want their printout.

I've used 1-2-3™ from Lotus™ on the HP Touchscreen to review others' work and ask "what-if" questions. The help screens really help and the tutorial quickly familiarizes you with the keyboard.
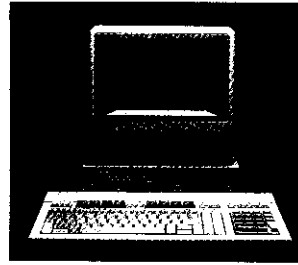
I came in one morning at 8:00 a few days after my HP Touchscreen was first installed. I created a line chart using HPGraphics—without once picking up the manual. The chart was for a 9:00 presentation. I tell you, it saved the day.

The Touchscreen helps a lot, because I'm not a great typist. It seems natural to select something just by touching it. Some people were concerned about developing "HP elbow" from reaching for the screen, but it hasn't been a problem for me."
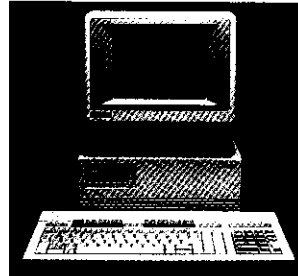
You've now seen how our remarkable personal computers have touched the lives of a diverse group of people. But judge for yourself.

- Access lots of popular software with industry-standard MS™DOS, made easy by the straightforward Personal Applications Manager.
- Juggle loads of data on the standard 256K bytes RAM memory—expandable to 640K bytes.
- Use 3½-inch, 710-Kbyte formatted-capacity discs that travel easily in your pocket.
- Expand—if you want—the mass storage capacity up to 105 Mbytes.
- Enjoy full-screen editing with the 27-line by 80-column, high-resolution display. Easily read text characters reduce eye strain.
- Hook up to high-performance peripherals through the HP-IB, RS-232C, RS-422, and Centronics interfaces.
- Exchange information with The PORTABLE personal computer from Hewlett-Packard using the optional Extended I/O Accessory and Portable-Desktop Link.
- Type quickly and comfortably on the detachable, typewriter-style keyboard.

GOT WHAT IT TAKES

The HP Touchscreen Personal Computer

The Touchscreen MAX Personal Computer

Take a quick look at our new, full-color *Getting Started With the Touchscreen Personal Computer* booklet. It tells you what to do and how to do it—painlessly and in clear English.

You'll soon feel comfortable about your computer, thanks to the touchscreen and Personal Applications Manager. P.A.M. displays easily understood commands you can select with your fingertip.

And to make absolutely sure you get on your way instantly, we give you with your system two of the most popular HP Touch applications, MemoMaker and Personal Card File (PCF).

MemoMaker is perfect for writing memos, business letters, or reports. Move sentences or entire paragraphs by simply touching the screen! And MemoMaker is compatible with WordStar®

PCF works like a computerized rotary file. It's the practical, easy way to maintain mailing lists, order entries, and customer records.

But that's not all! As a *special added bonus,* you get Winning Deal—a package of five computerized card games—with your Touchscreen or Touchscreen MAX.

UP AND RUNNING IN MINUTES

THE STATE OF THE SOFTWARE ART

We've got the best-selling programs you've heard about, as well as software for your specific needs—everything from electronic spreadsheets to data bases to office and farm management. And Hewlett-Packard's ever-growing selection is supplemented by other major software companies, many of whom also incorporate HP Touch for added ease of use.

- **Getting the Big Picture** Use popular 1-2-3™ from Lotus™ —with spreadsheet, file management, and graphics— to forecast next year's sales. Let MicroPlan help you with your micro- or macro-financial problems. And you'll give GraphPlan™ high marks for its spreadsheet and advanced graphics.
- **Novel Solutions** Polishing drafts isn't a grind with best-selling WordStar® or Word™ from Microsoft.®
- **Cataloging Your Collection** Touch *all* the bases with Condor™ 20-3, dBase II,™ and PFS:File & Report information (data base) management systems.
- **Learning Another Language** Produce customized programs with packages such as HP BASIC, GW™ BASIC, Pascal and FORTRAN from Microsoft.®
- **Keeping Good Books** With software like BPI General Accounting, BPI Job Cost, and BPI Personal Accounting, bookkeeping has never been simpler or more accurate.
- **Graphic Descriptions** Turn to graphics packages such as HP Graphics, Picture Perfect™ and Diagraph™ to produce charts, graphs, and transparencies.
- **Creative Challenges** Explore the Great Underground Empire in the popular game Zork® III. Or experience the thrill of speculation without risk playing TYCOON The Commodity Market Simulation.™
- **Current and Coming Attractions** Hundreds of software companies are developing applications in these and other categories.

COMMUNICATIONS CENTRAL

You might say that Hewlett-Packard personal computers are, well, outgoing. They can "talk" to each other, including the new PORTABLE. To IBM PCs. To timesharing information services. And to Hewlett-Packard, IBM, and DEC minicomputers.

Combined with the AdvanceLink communications package, Monitor/IBM PC lets you transmit ASCII and binary files between your Touchscreen or Touchscreen MAX and an IBM PC. You can use your Touchscreen or Touchscreen MAX as an IBM terminal *and* a personal computer with the Touchscreen 3278 Emulation Accessory.

Touchscreen Acculink™ lets you use your Touchscreen or Touchscreen MAX as a DEC VT100 or VT52 terminal. Acculink also provides binary and ASCII file transfer capabilities, as well as access to remote computer systems. A built-in tutorial and error checking get you started quickly and keep things accurate.

And you can link a group of HP and IBM personal computers to create a local area network. So you can share information, and high-performance peripherals.

It's surprisingly easy to automate your office with a local area network. You link HP personal computers and IBM PCs using EtherSeries™ software and interfaces and standard cables.

Networking is the cost-effective solution to your communication needs. Using the Touchscreen MAX as the network hub, you can share Winchester disc drives and letter-quality printers. Share information and some software applications. Even share your ideas with electronic mail.

Thus do great minds meet.

Instead of asking you to make do with a one-size-fits-all system, we offer a full range of disc drives and peripherals to make sure you get the right tool for the job. Choose from our family of high-capacity drives, versatile printers, multicolor graphics plotters, and more.

THE FREE, ENTERPRISING SYSTEM

When space is at a premium, you can add an internal thermal printer that conveniently fits right on top of the Touchscreen or Touchscreen MAX. It offers astonishingly quiet, rapid printing. Perfect for interoffice memos!

Or try our advanced new ThinkJet Printer. It prints 150 characters a second, or a page a minute. Since ThinkJet sprays ink through the printhead onto the paper without touching it, there is no impact noise.

ThinkJet produces graphics, underlining, boldface, and high-quality print. You can get ThinkJet with one of three interfaces: HP-IB, HP-IL, and Centronics. So the printer works with other brands of personal computers. The Touchscreen and Touchscreen MAX work with all three interfaces.
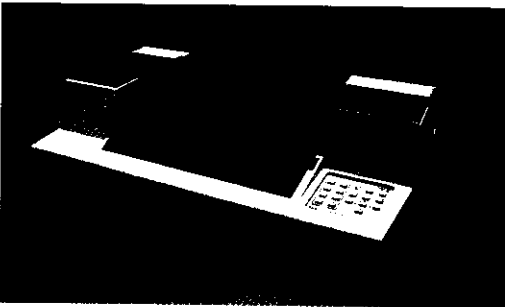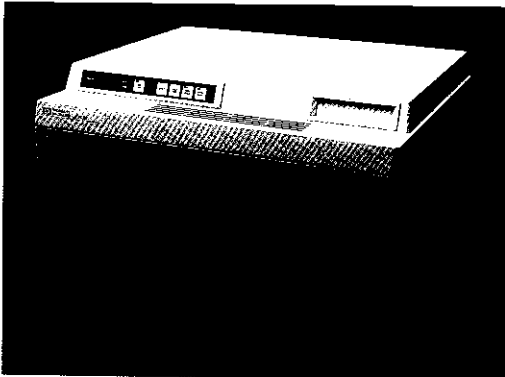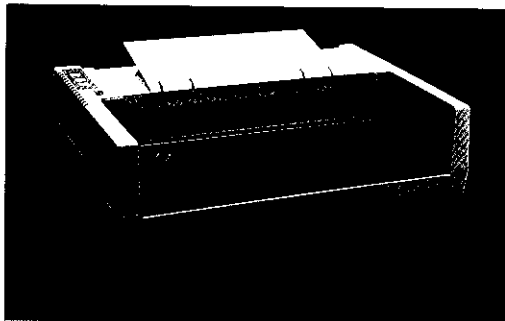
It's affordable printing in a 5½-pound package.

With LaserJet, The Professional PC Printer from Hewlett-Packard, you get true letter-quality documents up to 10 times faster than you would with a traditional daisy-wheel printer. And it's as quiet as rustling leaves... of paper. On the same page, you can print different type styles, charts, diagrams, even illustrations.

When you'd like to make your point with graphics, you can use the HP 7470 two-pen plotter or the HP 7475 six-pen plotter. For everything from simple line charts to PERT charts to complex engineering drawings.
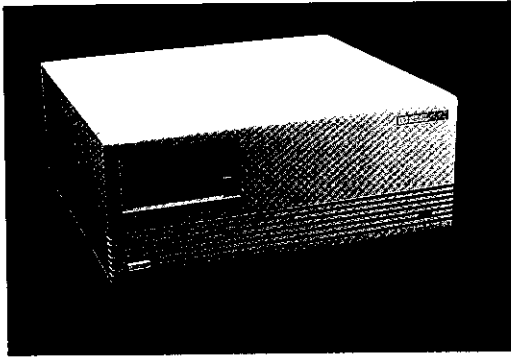
And you can turn your computer into a communications center by adding a high-performance Hayes™ external modem or a convenient Ven-Tel™ internal modem.

THE POWER OF THE PRINTED WORD

THE DISC OF THE FUTURE... NOW

It's a safe bet that in the very near future, most disc drives for personal and portable computers will use the 3½-inch microfloppy disc. The Touchscreen and Touchscreen MAX *already* do.

The 3½-inch disc offers more than two times the storage capacity and three times the reliability of the 5¼-inch disc. A Media Protection System keeps your data safe by preventing contamination from fingerprints, dust, and damage from handling.
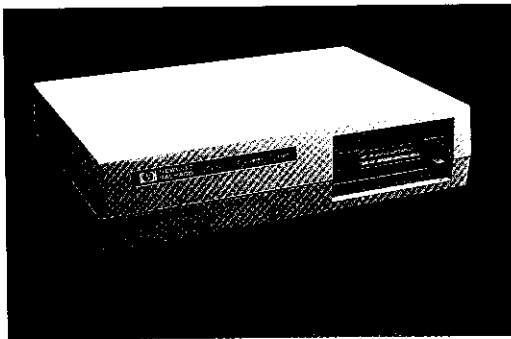
Each double-sided disc holds 710 Kbytes formatted data. In plain English, that's a 350-page book. Or a payroll for 1,400 employees.

The Touchscreen MAX's large formatted capacity 14.8-Mbyte Winchester lets you easily find solutions to complex problems with integrated applications.

And you can hook up additional disc drives for even more storage space should you need it.

MORE COMPUTING POWER TO YOU— EVERYWHERE!

The Portable-Desktop Link and optional Extended I/O Accessory make it easy to exchange information with The PORTABLE from Hewlett-Packard. You can analyze data in the field with the 1-2-3™ from Lotus™ software built into The PORTABLE, and then edit it at your leisure on your Touchscreen or Touchscreen MAX back at the office.

The same discs used in the battery-powered disc drive (HP 9114A) designed for The PORTABLE can also be used in the Touchscreen and Touchscreen MAX microfloppy disc drives.

HP Personal Computers. They speak the same language. Yours.

Add our HP 9125S disc drive, and you can exchange data with the IBM PC on 5¼-inch discs. A utility provided with the drive enables you to format 5¼-inch discs in PCDOS. (The drive also works with The PORTABLE using the HP-IL to HP-IB converter.)

THE TERMINAL OPTION

The Touchscreen Personal Computer also makes a powerful block-mode terminal for businesses that own mainframe computers. It features eight user- or program-defined softkeys with screen labels, friendly on-screen menus, built-in local editing, memory lock, flexible data communications capabilities, and more.

As a terminal, the Touchscreen can run the same software that runs on other HP terminals, including versatile graphics programs and electronic mail.

Best of all, the Touchscreen's or Touchscreen MAX's disc drives let you switch back to personal computer mode whenever you're through using your company's mainframe.

Touchscreen Personal Computer
Dual, 3½-inch, double-sided microfloppy disc drive
(45650B)

Touchscreen MAX Personal Computer
14.8Mb (formatted capacity) Winchester drive with
3½-inch, double-sided microfloppy disc drive (45660B)

Microprocessor/CPU
Intel 8088 running at 8 MHz

Memory
256K RAM (expandable to 640K)

Display
27 lines by 80 columns
Inverse video, underline, blinking, half-bright,
security, and all combinations of enhancements

Character Set
Roman8, line-drawing, math standard, bold and
italic depending on application
Total of 896 characters
9 x 14 dot character cell

Keyboard
Detachable with 8-foot coiled cable
Full ASCII code
8 screen-labeled function keys
Auto-repeat
N-key rollover
Cursor controls
18-key numeric pad

Size/Weight
27.04 lbs. (12.29 Kg) including keyboard
Display/Monitor: 12" x 12" x 11.3"
(305mm x 305mm x 287mm)
Keyboard
Flat 18" x 8.9" x 1.4"
(456mm x 225mm x 35mm)
Standing 18" x 8.9" x 2.5"
(456mm x 225mm x 63mm)

Data Communications
Data channels: 1 HP-IB, 2 RS-232C ports (general)
asynchronous and synchronous)
Data Rate (RS-232C): 110, 150, 300, 600, 1200,
4800, 9600, 19200 baud

Environmental Constraints
−40° to +167°F (−40° to 75°C) while in storage
+32° to +131°F (0° to 55°C)

Safety Approvals
U.L. Listing
FCC Level B

Disc Drives (with ordering numbers)
3½-inch, dual double-sided microfloppy, 710 Kbytes
each drive (9122D)
3½-inch single double-sided microfloppy with
710 Kbytes formatted capacity (9122S)*
14.8 Mbyte (formatted capacity) Winchester with
3½-inch, double-sided microfloppy (9133D)
14.8Mb (formatted capacity) Winchester (9134D)*
5¼-inch single, flexible (9125S)**

*The starred drives are supported only as add-on
drives to a system with a dual flexible disc drive or
in conjunction with a Winchester disc.
**Provides data compatibility with the IBM PC using
5¼-inch discs

Peripherals (with ordering numbers)

Printers
Integral Thermal (2674A)
ThinkJet with HP-IB interface (2225A), HP-IL inter-
face (2225B), or Centronics interface (2225C)
LaserJet with RS-232C interface (2686A)
Low-cost, daisy-wheel serial with RS-232C or
HP-IB interface (2602A)
Low-cost, dot-matrix (82906A)

Plotters
Graphics two-pen, with RS-232C or
HP-IB interface (7470A)
Graphics six-pen, with RS-232C or
HP-IB interface (7475A)

Accessory Boards
128K RAM (45630A)
256K RAM (45631A)
384K RAM (45632A)
1200/300 baud internal modem (45640A)
Touchscreen 3278 Emulation (45641A)
Touchscreen Extended I/O (45643A) (for output through
the Centronics and HP-IL interfaces)
Touchscreen Acculink™ (45613A)
EtherLink™ (45644A)
EtherPrint™ (45646A)
EtherMail™ (45647A)

3Com Networking Products
Etherlink kit (45644A)
EtherShare server software (45645A)
EtherPrint server software (45646A)
EtherMail server software (45648A)

Accessories
Tilt (92240A)
Swivel (92240B)
Carrying case (Touchscreen and 9122D/S drive) (13269C)
Carrying case (9122D/S drive) (13269T)
Dust cover (92250F)
Keyboard park (92171J)

All you need to do is ask. Call toll-free (800) FOR-HPPC for further information and the location of your local, authorized Hewlett-Packard dealer.

And to make sure you get the most out of your Touchscreen or Touchscreen MAX, we give you another toll-free number with your purchase, giving access to a telephone network for assistance if you need it.

Due to our high engineering standards and thorough quality control, HP personal computers have an excellent reputation for low maintenance requirements. Should you require support, HP Personal Computer Repair Centers provide service on most of the HP products they sell, including the Touchscreen and Touchscreen MAX. They are authorized by Hewlett-Packard to perform warranty, contract, and other services. Dealers go through complete service training and keep current with self-paced courses

Our message to you is: *We're there when you need us.*

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