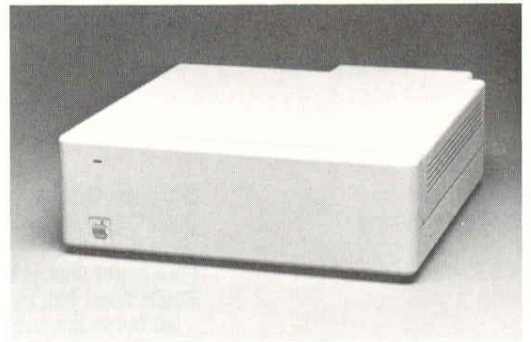




Macintosh Hard Disk 20

Personal Mass Storage
for Your Macintosh



Now Apple offers a personal hard disk for the Macintosh™ 512K or Macintosh Plus personal computer: the Macintosh Hard Disk 20.

A complete, self-contained mass-storage system, the Macintosh Hard Disk 20 provides 20 megabytes of storage capacity—the equivalent of twenty-five (800K) 3 1/2-inch disks, or 10,000 pages of text. It enables you to store multiple application programs, as well as all your data files, in one convenient place—under your Macintosh. And with the Hard Disk 20, you gain the added advantage of retrieval and storage that is two to three times faster than with your 3 1/2-inch-disk drive.

The Macintosh Hard Disk 20 uses reliable, state-of-the-art Winchester hard-disk technology, encased in a compact, lightweight

housing. It comes complete with all the cables and software that are necessary for successful operation with your Macintosh.

Ideal for the Business or Professional User

The Hard Disk 20 is ideally suited to your most complex, time-consuming business tasks, including accounting, word processing, financial analysis, and mail-list and data-base management.

Professionals such as doctors, attorneys, accountants, educators, and engineers will find the Hard Disk 20 an ideal complement to the Macintosh, helping it to tackle specialized data-processing needs efficiently.

Features and Benefits

The Macintosh Hard Disk 20 gives you the following advantages:

- It increases your productivity, accessing information two to three times faster than the 3 1/2-inch-disk drive and eliminating disk handling.
- The Hard Disk 20 simplifies large data-processing tasks, providing 20 megabytes of storage in one compact unit.
- It increases cost-effectiveness, giving you more than 10 times as much storage capacity for the price as you would get with the 3 1/2-inch-disk drive.

- It sits beneath your Macintosh, saving space and reducing desktop clutter.
- It simplifies multipurpose use, allowing you to access all your applications from one disk and eliminating the time-consuming task of installing individual applications from 3 1/2-inch disks.
- The Hard Disk 20 minimizes downtime, because of the reliability of Winchester technology.
- The Hard Disk 20 is as easy to learn and use as a Macintosh, thanks to the familiar Macintosh user interface and a new hierarchical file system.

Macintosh Hard Disk 20 — A Closer Look

Unlike floppy-disk drives that utilize flexible, manually inserted disks, the Hard Disk 20 uses rigid, nonremovable (fixed) disks for data storage. The Hard Disk 20 uses industry-standard Winchester technology, and consists of two double-sided disks with two dual read/write heads and an actuator mechanism, all within a sealed protective housing.

The head-disk assembly, analog-to-digital board, power supply, and intelligent controller board are assembled in one compact plastic housing.

The Hard Disk 20 comes with its own complete operating system, designed specifically for use with the Macintosh. The system includes the Hard Disk 20 driver, Hard Disk 20 Finder, ImageWriter™ II driver, and Hard Disk 20 File System.

The File System is a hierarchical file structure that provides an efficient and easy-to-use method for managing large numbers of files at multiple levels.

System Configuration

The Hard Disk 20 with Startup disk can be used with any Macintosh 512K or Macintosh Plus.



Macintosh Hard Disk 20

Technical Specifications

Storage Characteristics

Data Capacity: 20.77 megabytes (formatted)
Data Surfaces: 4
Heads per Surface: 1
Block Size: 512 bytes (512 bytes user data, 20 bytes system data)
Tracks per Surface: 305
Track Spacing: 600 tracks/inch
Sectors per Track: 32
Sectors per Surface: 9,760

Drive Characteristics

Average Seek Time: 85 milliseconds
Data Transfer Rate: 7.5 MHz
Rotational Speed: 2,744 RPM
Drive Startup Time: 15 seconds
Drive Spin-down Time: 25 seconds

Power Requirements

Line Voltage: 85 to 270 volts AC, 47 to 64 Hz
Power: 30 watts

Environmental Characteristics

Operating Temperature: 10° to 40° C
(50° to 104° F)
Storage Temperature: 0° to 50° C
(32° to 122° F)
Humidity: 20% to 80% (noncondensing)
Altitude: -305 to 3,050 meters (-1,000 to 10,000 feet)

Interface

Cable: DB-19 connector (to Macintosh External Disk Drive port)
Expansion Port: DB-19 connector
Transfer Rate: 500 kilobits/second (serial)

Physical

Dimensions: 78.5 mm H x 246 mm W x 266 mm D
(3.1 in. H x 9.7 in. W x 10.5 in. D)
Weight: 3.2 kg (7 lb.)

Macintosh Hard Disk 20 Package

With your Hard Disk 20 package, you'll receive the following:

- Macintosh Hard Disk 20
- Owner's manual
- Startup disk
- Power cord
- Limited warranty statement

U.S. Version: Order No. M2600

Intl. Version: Order No. M2600Z

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This data sheet was prepared using a Macintosh and LaserWriter™ with MacWrite™ and Aldus PageMaker.