

# 6 Megabyte Floppy Disk Drive

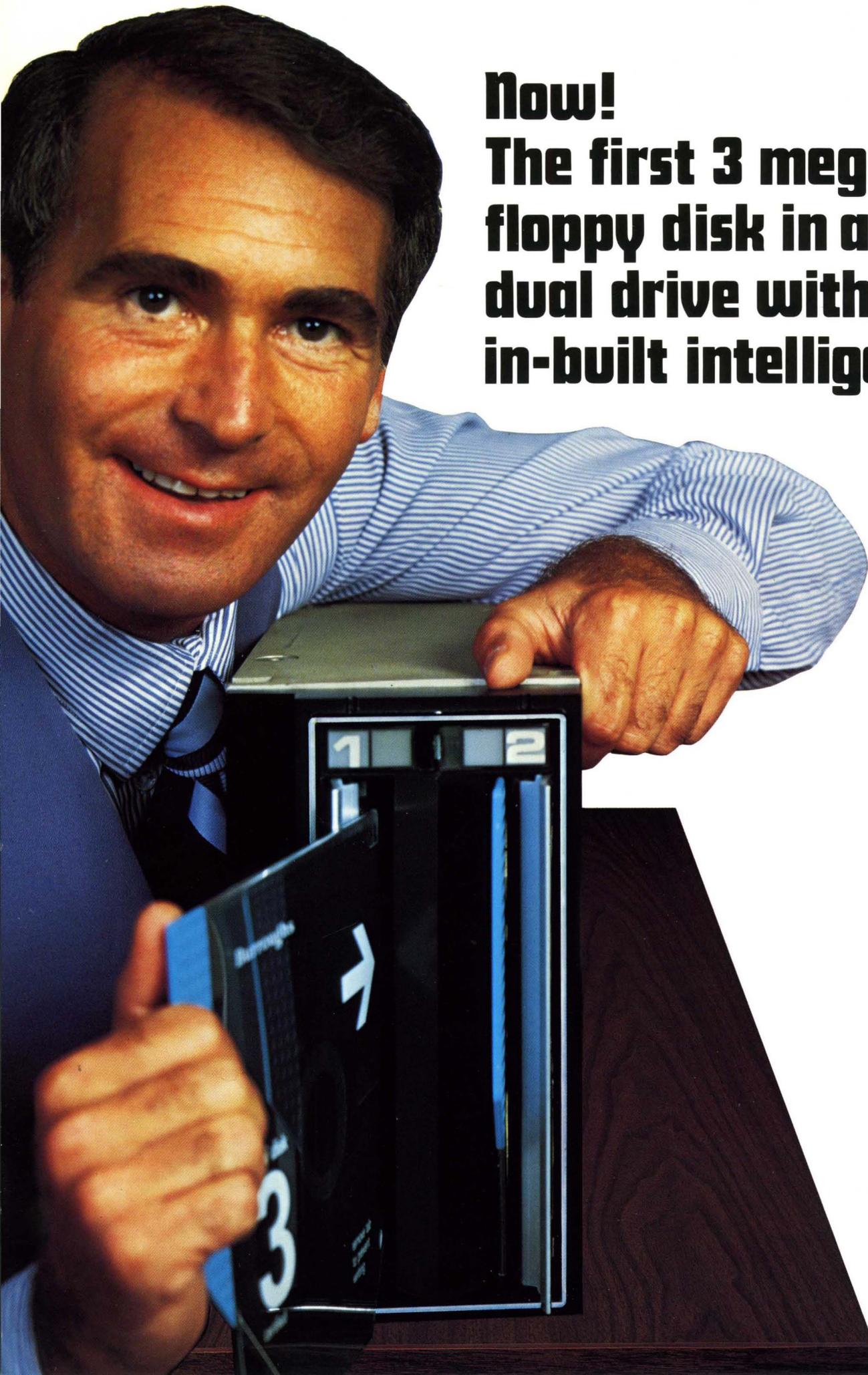
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mini disk  
Burroughs

# Burroughs

**Now!**  
**The first 3 megabyte**  
**floppy disk in a**  
**dual drive with**  
**in-built intelligence.**



Here is a state-of-the-art advance that aggressive OEM's can use to substantially improve the capacity and quality of their systems.

The new MD 122 dual floppy disk drive has two key features — a six megabyte capacity and an Advanced Microprocessor Controller (AMC) — which create meaningful benefits for floppy and fixed disk systems alike.

The MD 122 offers floppy disk based systems five times greater capacity and the increased performance of a voice coil actuator, while maintaining the advantages of low cost, removable media. And while storage capacity is increased, physical space requirements are about the same as for a conventional one megabyte floppy drive.

Fixed disk based systems also benefit, as the MD 122 can function as a convenient load/dump device for either 8- or 14-inch fixed disk drives. Furthermore, because of its random access capabilities, short jobs can process right on the MD 122. No need to load.

### **AMC means local intelligence and easy interface.**

The MD 122 is the first floppy with a built-in Advanced Microprocessor Controller (AMC). The AMC makes interfacing a mini disk almost as simple as interfacing a card reader, because the controller eliminates much of the work you'd have to do to control the drive.

Not only does the AMC perform functions normally required of the host system controller (e.g., CRC generation, error detect/correct, sector relocation), it also performs functions usually required of the host systems CPU (file search, error logging and analysis and confidence/diagnostic tests).

Finally, the AMC performs functions (media wear monitoring and warning to host) you won't find on competitive products.

### **Applications**

- Small business systems data storage
- Program loading
- Word processing/electronic mail
- Data entry and collection
- Fixed disk load/dump

### **Features**

The key to the MD 122's ability to pack 3 megabytes of formatted data on a single floppy disk is a microprocessor-controlled, dynamic recalibration scheme which allows a substantial increase in track and bit density.

The microprocessor unit controls the basic positioner and parallel data channel functions. Two flexible, 8-inch disks are mounted on a common spindle and rotated by a single motor. Four heads, mounted on a common assembly, are moved across the surface of the disks by a voice coil actuator. Position accuracy is maintained by the use of a photoelectric grating system and servo information pre-written on the disks.

A unique outer sleeve protects the media from damage. Disks can only be inserted and removed with the outer sleeve in place.

The drives are designed to be incorporated in host system cabinetry with host-supplied D.C. voltages.

### **Advantages**

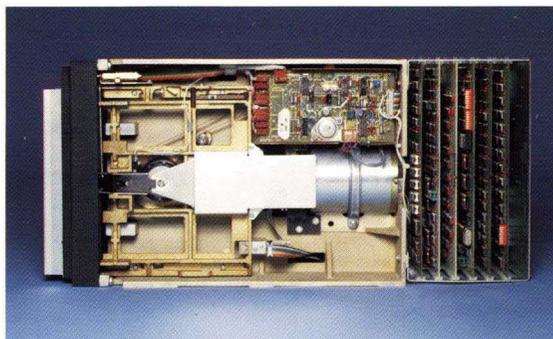
To the original equipment manufacturer:

1. State-of-the-art technology without the investment or risk.
2. Quick response to the market due to the shorter development and integration time needed to interface the MD 122 to the host system.
3. Confidence in supplier. Burroughs maintains a comprehensive R&D

program, has enviable financial strength and a continuing commitment to excellence. These are transferable advantages when you use our products in your OEM applications.

To the System Designer:

1. Configuration flexibility made possible by the MD 122's simple, parallel interface.  
By combining mini disk drives with compatible Burroughs fixed disk drives, different configurations can be designed at the optimum mix of fixed and removable storage while maintaining a low media cost.
2. Applications flexibility. By merging the capacity and performance characteristics of cartridge drives with the low drive and media costs of flexible disks, the system designer is now able to:
  - Fill the price/performance gap in the small business systems market.
  - Lower the threshold price for a node in a distributed processing network with telecommunications capability requiring a local data base.
  - Provide the vehicle in word processing/electronic mail which will allow the accumulation of a day's correspondence to take advantage of low, overnight rates. At the same time, both locations party to the communication will be able to retain media for subsequent retrieval and historical records.
  - Build in a substantial media cost savings versus cartridges and provide a meaningful competitive advantage when used as a load/dump device on cost-sensitive fixed disk systems.



The Advanced Microprocessor Controller (AMC) is integrally mounted at the rear of the unit.



The MD 122 provides 6 megabytes of floppy memory in about the same space as a 1 megabyte drive.

# **Another in a growing family of Burroughs OEM Products.**

For specifications and complete information, contact Burroughs OEM Marketing, Burroughs Place, Detroit, MI 48232. Call (313) 972-8031.

In Europe, High Street, Rickmansworth Hertfordshire, England. Telephone Rickmansworth (09237) 70545.

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