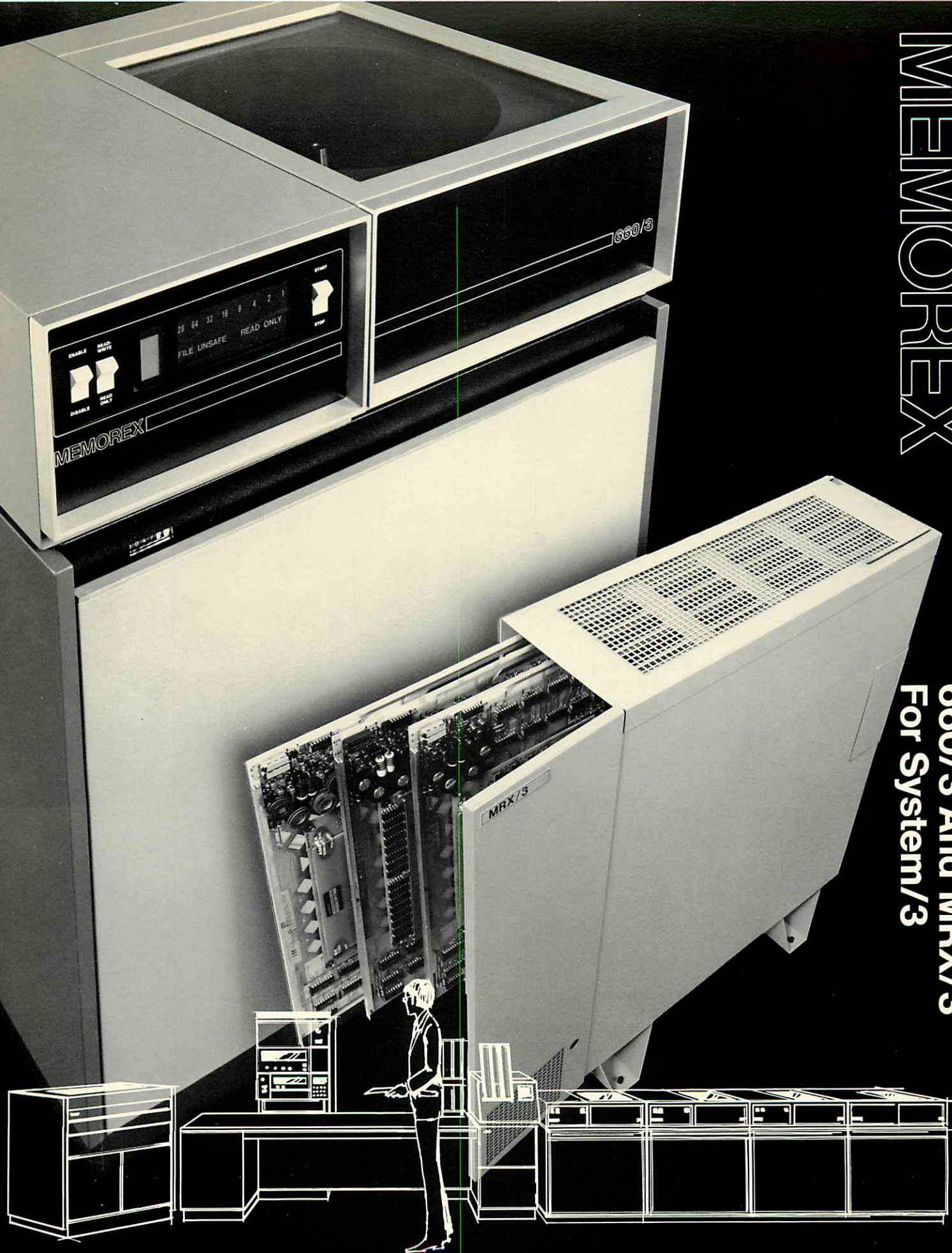MEMOREX

660/3

660/3 And MRX/3
For System/3

MRX/3

MEMOREX

The Memorex 660/3 Disc Drive
Giving System/3 Users More Throughput for Less Cost

Memorex offers the best alternative to the IBM 5445 or 3340 disc drives. The MRX 660/3. The first high-speed, low cost drive ever offered for the System/3.

The MRX 660/3 brings the kind of drive power and state-of-the-art electronics previously only available to the large computer user. And it does it with major cost savings.

This upgrade for the System/3 user results in increased system performance with decreased system expense.

£3,000 Per Year Savings
For the typical installation with two disc drives and one controller, the MRX 660/3 will save from one to three thousand pounds annually. And to keep it flexible, we also offer a wide choice of lease, rental and purchase terms.

More Job Throughput
The MRX 660/3 uses our own advanced voice-coil actuator for head positioning, rather than the hydraulic system found on a 5445. There are only three moving parts, instead of dozens. What this means for you is a simplified design with faster access times and improved reliability.

Hardware/Software Compatible
The MRX 660/3 is completely compatible with all existing System/3 software. No modifications are required for any programs. What's more, all 20 surface disc packs written on the 5445 can be read on the MRX 660/3, and vice versa. The IBM System Control Program operates without changes for standard System/3 configurations.

Performance Comparison Chart	MRX 660/3	IBM 5445
Head Movement Time		
1 Track, msec	12	25
Average, msec	35	60
All Tracks, msec	60	130
Start-Up Time, sec	30	60
Stop Time, sec	15	60
Positioning Mechanism	Electrical	Hydraulic (Oil)
Disc Pack Capacity	20.48 Million Bytes	20.48 Million Bytes
Transfer Rates	312,000 Bytes/sec	312,000 Bytes/sec
Dimensions	30"W x 24"D x 38"H	29"W x 32"D x 60"H
Weight	395 lbs.	800 lbs. (Mod. 1) 670 lbs. (Mod. 2)
Heat Output/Hr.	1,800 BTU	2,800 BTU (Mod. 1) 1,900 BTU (Mod. 2)

Swap Drive Assignments
If you are running two or more drives and want to switch packs from one drive to another, it's very simple. With the MRX 660/3, just move a numbered plug on the front panel, and you've swapped drive assignments. With Memorex there is no need to remove the packs and go through the STOP/START cycle. And this is just one of the many features that can help your System/3 operate more efficiently.
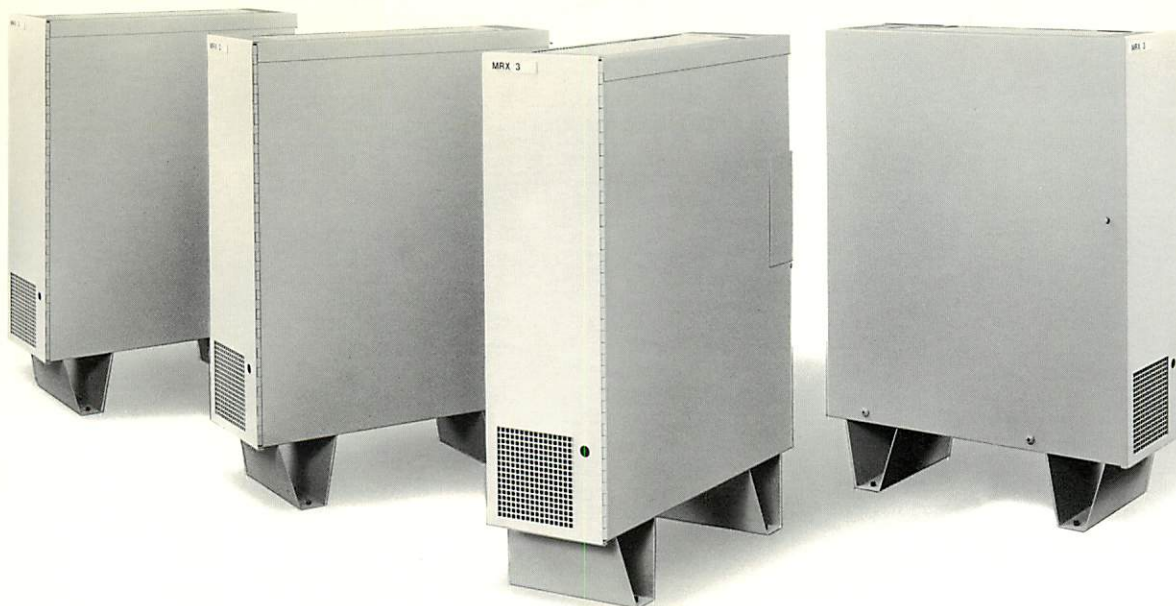
Worldwide Service
Memorex has already passed the 10,000 mark for 660 Disc Drives installed worldwide and more than 100 million operating hours have been logged. You can be sure that every Memorex service representative knows your drive, inside and out.

Fault Detection System
If service is required, a self-diagnosing fault detection system built into the MRX/45 Disc Controller will tell your operator whether to call Memorex or IBM.

The Perfect Upgrade

MRX/3 for System/3
More Memory for Less Money

No matter how much System/3 memory you're now using, MRX/3 is a money saver. You can save as much as 3,000 Pounds Sterling each year by simply replacing your IBM Memory with MRX/3. These savings in turn can mean more profits, more salaries or additional equipment for your department.

No Hidden Costs
Memorex doesn't hide any costs. The monthly rental automatically includes 24 hours a day, 7 days per week maintenance. Installation is free, and usage in excess of 176 hours per month is free too.

Flexibility
Nobody offers a wider choice of financing than Memorex. Choose from several lease plans that leave your options open. Or, guard against inflation with one of our fixed price leases. And of course, you can purchase from Memorex when it's to your advantage. Memorex offers the perfect choice.

Simple Installation
MRX/3's are delivered within 30 days; and installed in less than two hours, in most cases. Upgrades are fast too—sometimes overnight. Plug-in memory cards snap in and out in seconds. No additional wiring or power is required—MRX/3 uses the System/3's power supply, circuit breakers and RFI filters. Memorex is the safest, most direct attachment possible.

IBM Compatible/IBM Approved
No modifications are required to the systems programs, user programs, hardware features or peripherals. To the CPU, the MRX/3 is totally transparent. MRX/3 is, of course, IBM approved on Models 6 and 10, or, as IBM has documented, ". . . The System/3 with a 'MRX/3' attached is practical for IBM customer engineers to maintain under the standard (IBM) rental agreement."

Service
Memorex service is excellent, specialized and fast, in locations around the world.
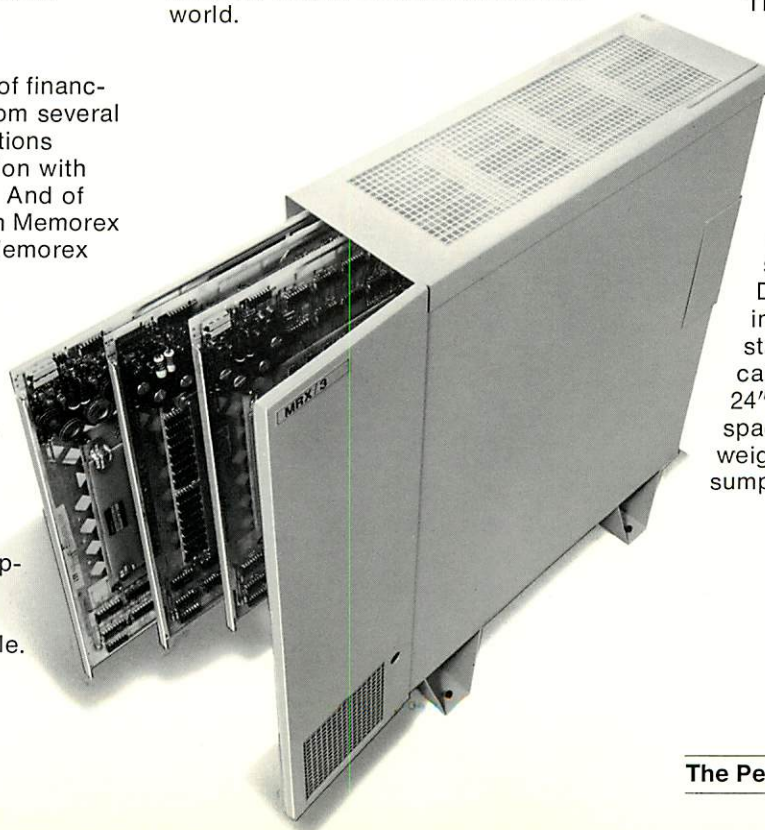
And just like the 660/3's fault detection system, the MRX/3 also has its own built-in self diagnostics. The CPU console lights automatically indicate the location of any core failure, so your operator will know immediately who to call; us or IBM. It's just that simple.

A special switch allows instant electronic disconnect for the MRX/3. Then the System/3 can operate in "IBM only" mode as a system diagnosis and maintenance aid.

Compact and Efficient
The MRX/3 core memory generates less heat than the equivalent IBM equipment. Using less power is efficient, which is just one more of the many ways that you can save money with Memorex.

An extra benefit is the MRX/3's compact enclosure. When installed with a MRX 660/3 Disc Drive, the memory is contained in the MRX/45 controller. In stand-alone mode, the memory cabinet measures only 6" x 18" x 24", fitting easily in the unused space under the CPU console. Total weight is just 45 pounds. Power consumption is only 150 watts.

The Perfect Upgrade

Memorex Means Memory Excellence

Today, more than 1,000 System/3 users in the U.S.A., Canada, Japan and Europe have installed the MRX/3 Core Memory and MRX 660/3 Disc Drive. All are saving as much as 35 percent of their original IBM cost. And as you have just seen, Memorex offers much more than cost savings.

Every Memorex product is engineered to provide superior function and performance. We never intended to be second best to IBM. We're better.

The MRX 660/3 Disc Drive is 100 percent faster than the 5445, running up to speed or stopping in just half the time. You're getting considerably increased throughput.

Double your storage capacity too. Memorex connects up to four 660/3 Disc Drives to a System/3 Model 10. IBM gives you a maximum of only two 5445's.

Memorex makes your operator more efficient. Look for instance at pack loading. The MRX 660/3 features easy-access top loading, while IBM makes you stoop over their drawer. Our digital display on the front of the 660/3 gives you useful information, like which track is being accessed.

If IBM had their way when you wanted more than 48K of core on your System/3 Model 10, you'd have to upgrade to a Model 15. Memorex offers up to 64K of memory for a System/3-10.

Memorex gives System/3 users the best choice—more performance for less cost. Call your Memorex Representative for the complete story.

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The Perfect Choice

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