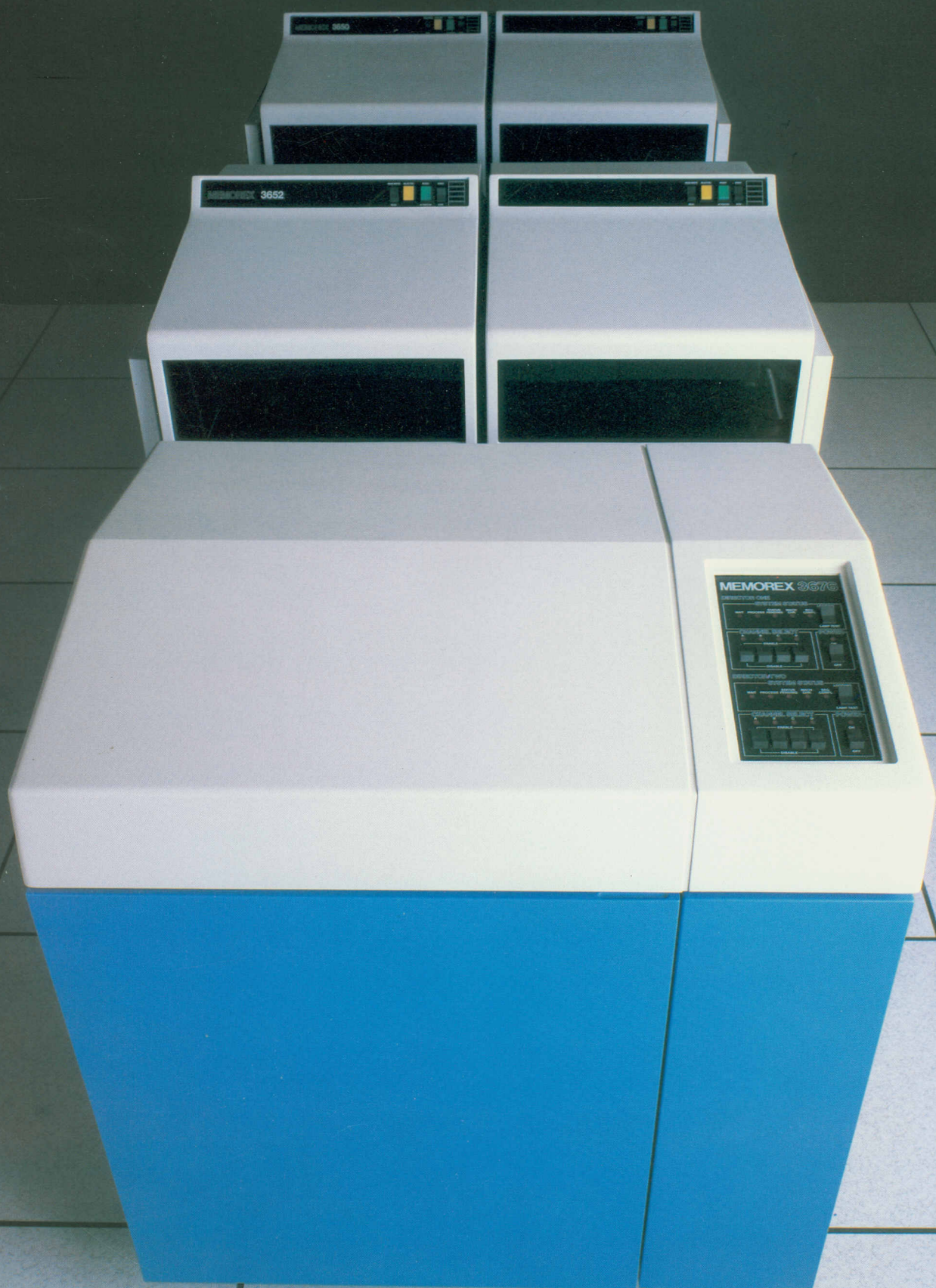


MEMOREX

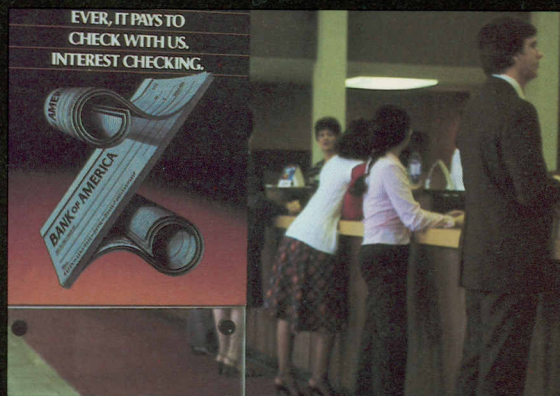
3652 Disc Storage Subsystem



THE COMPUTER HISTORY MUSEUM



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Memorex. ***Responding to the*** ***Changing Needs of Business***

One of the most important aspects of today's business world is the electronic processing of ever-larger amounts of data—data that is becoming increasingly complex, data that is needed more quickly than ever before. In response to these demands of the business community, the information storage and retrieval industry has been innovative, making products that are faster, smarter, tougher, more powerful and more reliable.

This process of rapid change is inevitable. But, at its best, it is also very carefully engineered. Since 1961 the Memorex Corporation has contributed to the information storage, retrieval and communications industry as an acknowledged leader in advancing the technology of computer media and equipment. Memorex has reached this position not only because it has been able to respond to the demands of business change, but because it has also anticipated and initiated change on its own.

Memorex scientists and engineers have created innovation after innovation that allow the business world to operate more efficiently—to store and to access more information with smaller and faster equipment.

The tradition of innovation has evolved from Memorex's commitment to excellence. Memorex research and development efforts—looking into the future—are combined with its commitment to protecting its customers' investments by providing quality

products and service. Excellence is not simply a promise, but an achieved goal at Memorex. However, excellence means "giving more, expecting more." Memorex is striving to meet the needs of the business world by giving you more, by expecting more of ourselves.

But the Memorex reputation is not built on words—it's built on service and products. Products built for your needs. For instance, the large-capacity, fast-access, highly reliable Memorex 3652 Disc Storage Subsystem.

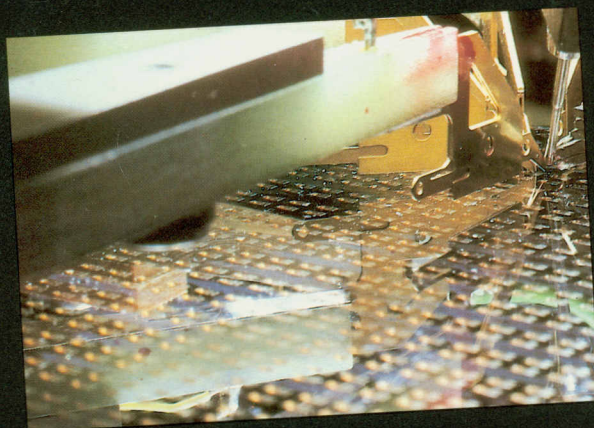
The Memorex 3652 Disc Storage Subsystem. Available Today for the Business of Tomorrow.

The 3652 large-capacity Disc Storage Subsystem combines high-performance Memorex disc storage modules with Memorex's 3676 Storage Control Unit. The Memorex 3650 Disc Drive Module provides users with 635 megabytes of storage. And for those users whose data storage needs are greater, the 3652 Disc Drive Module can store up to 1.27 gigabytes of information. Both the 3652 and the 3650 Drive Modules can be linked with the Memorex 3676 Storage Control Unit for a potential forty billion bytes of available, on-line storage.

That's a lot of storage—the kind of storage capacity that's needed in large business applications today. But even more important, your data is available faster. And because of Memorex's design efforts it's more reliable—the result of using fewer components, higher-density circuitry, and advanced Memorex media.

The Memorex 3652 Disc Storage Subsystem is the answer to the business needs of today—and tomorrow. Memorex is committed to the future, with research and development efforts dedicated both to protecting our customers' investments through enhance-

ments and upgrades, and to constant innovation and change to meet new challenges. In support of the largest installed base of disc storage equipment of any plug-compatible manufacturer, Memorex has developed one of the largest and best service and sales organizations in the industry—with thousands of Memorex personnel around the world ready to serve you.



Technical Specifications.

3650 Direct Access Storage Subsystem Specifications

Capacity

3350 Native Mode:

317.5 MB/drive including 1,144,140 bytes/drive of optional fixed head area

3330-11 Emulation Mode:

200 MB/drive including 742,710 bytes/drive of optional fixed head area

3330-1 Emulation Mode:

Two 100 MB logical volumes/drive including 742,710 bytes/drive of optional fixed head area

Data Transfer Rate

1.198 MB/sec

Rotational Speed

3,600 RPM

Average Rotational Delay—8.4 ms

Access Time/Spindle

30 ms—maximum

17.3 ms—average

6 ms—minimum

Physical Dimensions

3653:

Height: 46 in (117 cm)

Width: 44.5 in (113 cm)

Depth: 32 in (81 cm)

3650/3654:

Height: 46 in (117 cm)

Width: 43.3 in (110 cm)

Depth: 32 in (81 cm)

Weight

3650: 870 lbs (395 kg)

3653: 940 lbs (426 kg)

3654: 928 lbs (421 kg)

Operating Environment

Temperature: 16 to 32°C (60 to 90°F)

Relative Humidity: 20% to 80%

Heat Dissipation

3653/3654: 7310 BTU/hr (2142 Kcal/hr)

3650: 6110 BTU/hr (1790 Kcal/hr)

Air Flow

560 CFM (15.9 m³/min)

Power Requirements

3650: 2.0 kVA/maximum module

208/230 VAC, 60 Hz, 3 Phase, 60 Amps

3653/3654: 2.5 kVA/maximum module

220/380 VAC, 50 Hz, 3 Phase, 60 Amps

3652 Disc Storage Subsystem Specifications

Capacity

3350 Native Mode:

635 MB (2 logical volumes/spindle) including 2,288,280 bytes/drive of optional fixed head area (1,144,140 bytes/logical volume)

3330-11 Emulation Mode:

400 MB (2 logical volumes/spindle) including 1,485,420 bytes/drive of optional fixed head area (742,710 bytes/logical volume)

Physical Track:

19,069 bytes—3350 native mode

13,030 bytes—3330-11 emulation mode

Data Transfer Rate

1,198K bytes/sec

Rotational Speed

3,600 RPM

Average Rotational Delay—8.4 ms

Access Time/Spindle

30 ms—maximum

17.3—average (per logical volume)

6 ms—minimum

18 ms—average/logical volume

Physical Dimensions

3655:

Height: 46 in (117 cm)

Width: 44.5 in (113 cm)

Depth: 32 in (81 cm)

3652/3656:

Height: 46 in (117 cm)

Width: 43.3 in (110 cm)

Depth: 32 in (81 cm)

Weight

3655: 1,050 lbs (476 kg)

3652/3656: 950 lbs (431 kg)

Operating Environment

Temperature: 16 to 32°C (60 to 90°F)

Relative Humidity: 20% to 80%

Maximum Heat Dissipation

3652: 6,110 BTU/hr (1,790 watts)

3655/3656: 7,310 BTU/hr (2,142 watts)

Power Requirements

3652: 208/230 VAC $\pm 10\%$, 60 ± 0.5 Hz, 3 Phase, 60 Amp

3655/3656: 220/380 VAC $\pm 10\%$, 50 ± 0.5 Hz, 3 Phase, 60 Amp

3676 Storage Control Unit Installation Specifications

Physical Dimensions

Height: 43 in (1,092 mm)

Width: 38 in (965 mm)

Depth: 32 in (815 mm)

Weight

600 lbs (272.2 kg)

Service Clearances

Front: 38 in (965 mm)

Rear: 38 in (965 mm)

Left: No access required

Right: No access required

Power Requirements

Voltage (60 Hz): 208/230 VAC $\pm 10\%$

Frequency: 60 ± 0.5 Hz

Phase: Three-Phase

Branch Service: 15 amperes

Voltage (50 Hz): 220/380 VAC $\pm 10\%$

Frequency: 50 ± 0.5 Hz

Phase: Three-Phase

Branch Service: 15 amperes

Average Heat Dissipation*

4,100 BTU/hr (1,200 watts)

Power Requirement*

1.4 kVA

Air Flow*

400 CFM

Environmental Conditions

Operating

Temperature: 16 to 32°C (60 to 90°F)

Relative Humidity: 20% to 80%

Maximum Wet Bulb: 26°C (78°F)

Temperature Variation: 2.7°C/hr (5°F/hr)

Optimal

Temperature: 24°C (75°F)

Relative Humidity: 50%

Non-Operating

Temperature: 10 to 49°C (50 to 120°F)

Relative Humidity: 10% to 90%

Maximum Wet Bulb: 26°C (78°F)

Temperature Variation: No condensation

Cable Requirements

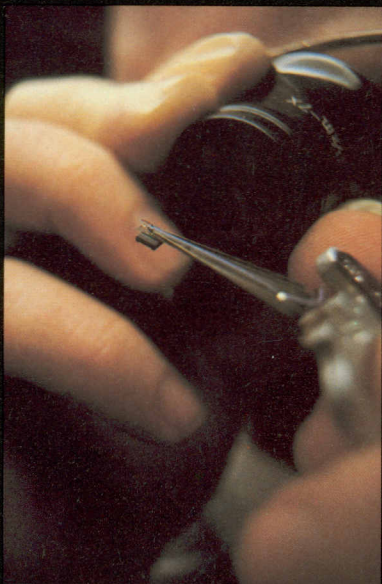
Power Cord (60 Hz): 6 ft (1.83 m) or 15 ft (4.57 m)

Power Cord (50 Hz): 15 ft (4.57 m) or 25 ft (7.62 m)

EPO (Emergency Power Off) Cable

I/O Channel

*With four-channel switching installed.



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Memorex Corporation

Memorex, founded in 1961, is an international company which manufactures and markets information storage equipment, magnetic recording media, and data communications equipment for the IBM-plug-compatible, OEM and Burroughs markets. Memorex operates 18 engineering and manufacturing facilities in the United States, Canada, Mexico, Ireland, Belgium and Japan. The company's major engineering and development facilities are located in Santa Clara, California. Memorex markets its products, and services its customers, through nearly 70 sales and service offices in the United States and an additional 60 locations in 19 other countries. Distributors market Memorex products in 60 additional countries. A subsidiary of the Burroughs Corporation, Memorex employs 12,000 persons worldwide.

