

101 OEM Disc Storage Drive Future Product Information

Because Memorex is committed to supporting the OEM market with the highest quality products, we are continually researching and updating our present products to incorporate the latest technology. By combining Winchester-type technology with proven design techniques, the original equipment manufacturer is ensured of the ultimate in reliability and quality from Memorex. The OEM customer is further supported by the finest field service organization in the industry.

The Memorex 101 is an eight-inch, rigid disc, data storage module that fits into a flexible disc drive envelope providing 11.7 MB of storage capacity. Features and benefits include:

- Flexible disc size
- High-speed band actuator
- Imbedded drive spindle motor
- Sealed media environment
- Low heat dissipation
- Low power requirements

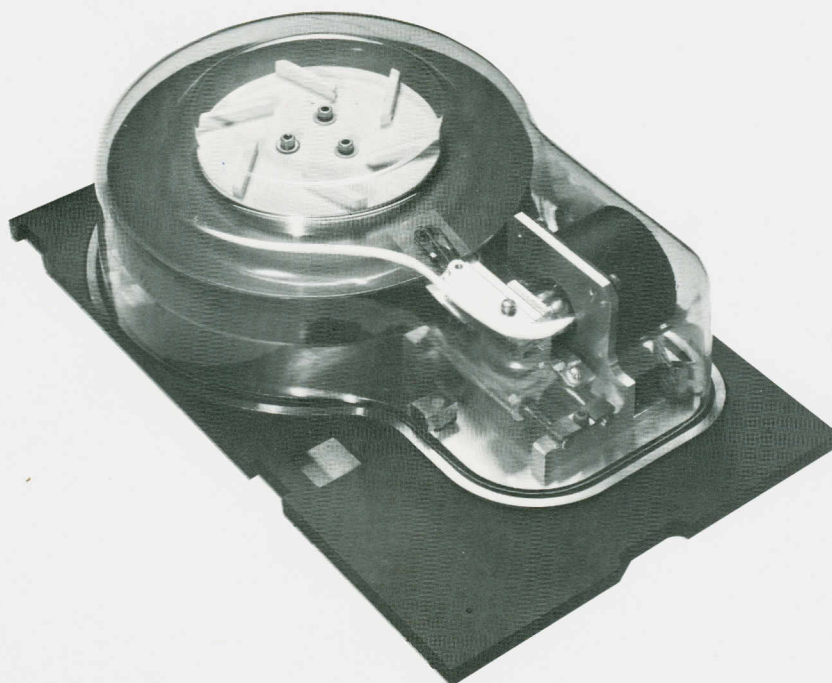
The Memorex 101 incorporates a flexible disc electrical interface and physical mounting pattern allowing the 101 and the flexible disc drive to share the same controller, cabinet, and power supply.

Memorex engineers have designed a new high-speed band actuator that requires no field adjustments and has a very low heat dissipation.

By integrating the drive motor with the hub, we have eliminated belts and lowered parts count which increases reliability and saves valuable space. The electronics package mounts to the bottom of the head/disc assembly (HDA) for easy field service access even while the drive is running.

A carefully designed sealed environment protects the head, media, actuator, and spindle from contamination and utilizes an absolute filtration system inside the enclosure.

Less than 100 watts of power are required to operate the Memorex 101 which lowers system costs. What's more, only DC power is necessary allowing for international versatility.



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Future Product Specifications**

Capacity

Drive: 11.7 MB
Per Surface: 2.9 MB
Per Track: 12,000 BYTES

Data Retrieval Times

Track-to-Track Access Time: 20 MS
Average Access Time: 70 MS
Maximum Access Time: 120 MS
Average Latency: 10.1 MS

Dimensions

Width: 8.55 inches
Height: 4.38 inches
Depth: 14.0 inches

Weight

20 lbs.

Power Requirements:

Voltage: +24 VDC \pm 10% @ 7A
 + 5 VDC \pm 5% @ 2.5A
 - 5 VDC \pm 5% @ 250 MA

Environment

Ambient Temperature: 50° to 120°F
Relative Humidity: 10% to 90%

Specifications

Rotational Speed: 2964 RPM
Cylinders: 244
Heads: 4
Physical Sectors
 Encoding Method MFM
 Index: 1
Sectors: Programmable up to maximum
of 4096 bytes/sector.
Interface: Flexible Disc Compatible

Reliability Specifications

Fixed Disc
MTBF: 8000 hrs.
MTTR: 30 min.
Error Rate
 Soft Read Error: 1 per 10¹⁰
 Hard Read Error: 1 per 10¹²
 Seek Error: 1 per 10⁶

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