

MEMOREX

3682 Double capacity DASD

Reliable

Available

Compatible

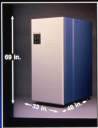
Double
Capacity



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3685 dual string control unit



- Dual path string control
- 2 spindles of double capacity DASD
- 5.04 GBs data capacity
- Fully feature and function compatible to the AE4 units

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3682 dual spindle drive module



- Each unit contains 2 HDAs
- Each HDA consists of 2 actuators
- Each actuator manages:
 - 1770 cylinders
 - 15 tracks per cylinder

For a total capacity of 5.04 GBs of data

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Data hierarchy

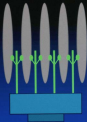


Memorex can help you define the configuration best suited to your data's characteristics

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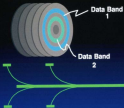
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HDA enhancements

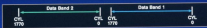


- Improved advanced particulate media
- Third generation thin film heads
- Improved actuator design
- Exclusive reactive lube formula

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- Two data bands per surface
- 1770 tracks per band
- 1400 tracks per inch



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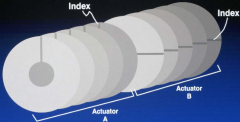
Subsystem attachments



- Memorex 3888 dual storage director control unit
- Memorex 3888-23 dual storage director cache control unit
 - Single and dual frame configurations
- Multiple channel options
 - 2 channel
 - 4 channel
 - 8 channel

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- Adjacent actuator indices offset by 90°
- Enhances the opportunity for simultaneous I/O access



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Performance characteristics

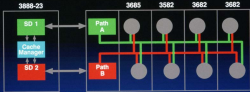
MAPS

Maximum Availability Path Selection



- Dual path selection
- Maximizes availability to your data

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3688-23 cache features

- Separate cache manager
- Hardware directory search
- Separate volume directories

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Performance solution

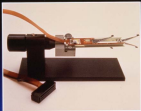


The Memorex 3682 and 3888-23 for high performance data requirements

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Specifications



- **Actuator seek time**
Min. - 3 ms
Avg. - 17 ms
Max. - 30 ms
- **Data transfer rate**
3.0 MB/sec
- **Latency**
8.33 ms

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Experience the reliability...



- Third generation thin film read write heads
- Double capacity actuators
- Reactive lubricant on platters
- Fewer components and PCBs
- Advanced air flow management

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Thin film head evolution

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Memorex 3682 DASD

Integration of experience
and technology into
state of the art

3rd Generation

Memorex 3680/8240 DASD

Refinements in the
Manufacturing process

2nd Generation

Memorex 3680 DASD

Thin film mass
manufacturing

2nd Generation

Memorex 3690 DASD

First thin film
head design

1st Generation

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Experience the reliability...



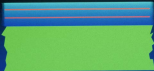
Double capacity actuators

- Smoother seek motion
- Faster access to data
- Superior to other designs

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Experience the reliability ...

Lube spin off:
Reactive vs normal lube



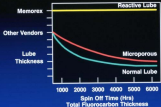
- Protective lubricant
- Exclusive bonding agent
- Oxide coating
- Aluminum substrate

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Experience the reliability ...

Lube spin off: reactive lube vs normal lube



Unique patent-pending Memorex solution to extend the reliable life of Memorex DASD

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Experience the reliability...

PCBs/spindle

3680 127

3682 50

PCBs/GB

3680 12.6

3682 4.5



Fewer parts = Fewer failures = Greater reliability

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- Heat producers on top
- Heat evacuated through "chimneys"

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3685 maintainability



- Independent data path diagnostic ports
- Independent RS-232 ports for remote analysis
- Total redundancy of data path components

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3682 maintainability



- Microprocessor-based timing adjustments
- Actuator-level diagnostic access
- HDA-level service access
- "Eminent fault indicators" warn of failure before it occurs

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Data hierarchy



Memorex can help you define your data's size, usage and performance characteristics

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Data hierarchy



Memorex can help you define the
devices best suited to your data's characteristics

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Experience Memorex ...

The products

- DASD products
- Solid state storage
- Tape products
- Cache controllers
- Financial services

The services

- Data management consultation
- Predictive maintenance and equipment service
- Financial services
- Futures planning

The people

- Knowledgeable sales representatives
- Astute MFC leasing managers
- Experienced systems engineers
- Dedicated customer engineers