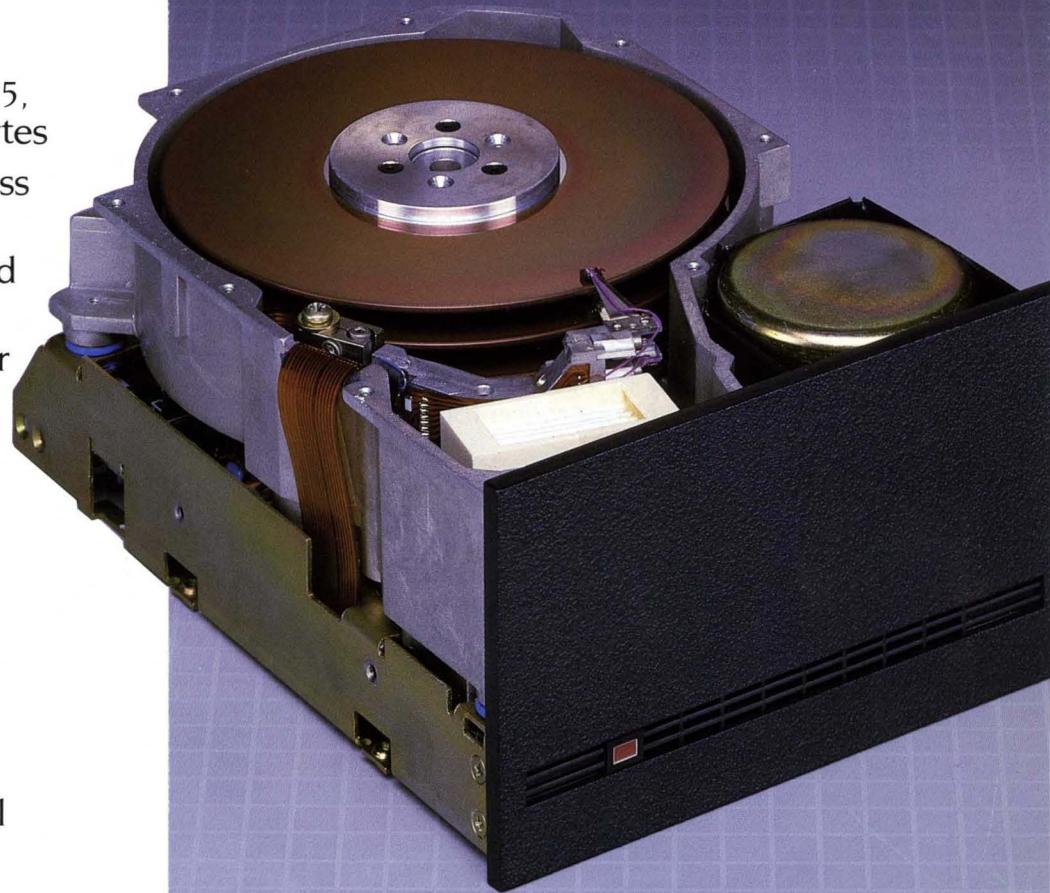




5 1/4" Winchester Disk Drive

CM 7000 FEATURES:

- Unformatted capacity of 30.5, 38.2, 53.4 and 85.3 megabytes
- 39 millisecond average access time
- Adaptive servo for enhanced durability
- Closed loop servo positioner
- Whisper quiet positioning system
- Proven Winchester technology
- Identical mounting to standard 5 1/4" floppy drives
- Internal microprocessor
- Step-pulse buffering
- Head velocity profile control
- Optimized temperature compensation
- Automatic head lock
- Head parking zone
- Read/write preamplifier within the head/disk assembly



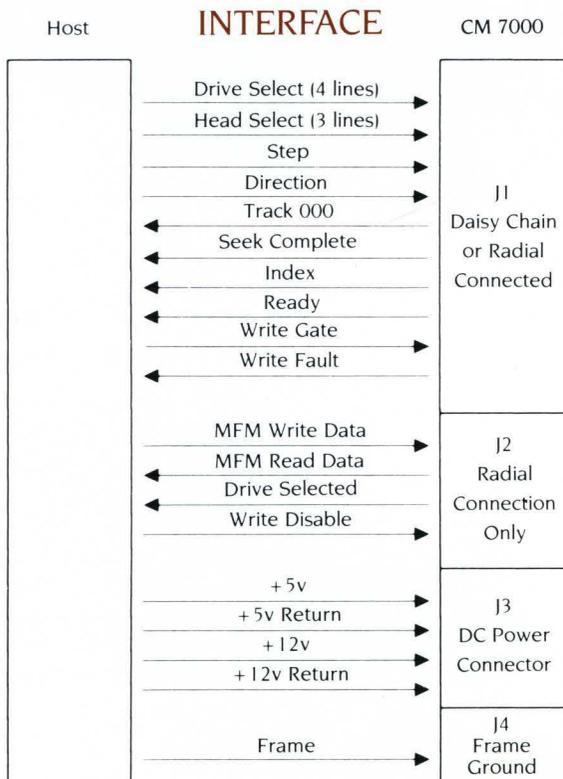
CM 7000 SERIES

CM 7000 Series disk drive product information

Computer Memories CM 7000 series of Winchester technology disk drives offers storage capacities of 30.5, 38.2, 53.4 and 85.3 megabytes all with average access time of under 40 msec. Combining proven Winchester technology and design techniques, such as the unique adaptive servo system, the OEM is assured of the ultimate in quality and reliability.

System integration is simplified because the CM 7000 has the same physical dimensions and mounting hole locations as a standard 5¼" floppy disk drive. DC voltage requirements are also the same as a mini-floppy drive thus enabling the use of a single power supply for both types of drives.

The high capacities of the CM 7000 are achieved by the utilization of a closed loop servo positioning system, on-board microprocessor, and manganese-zinc heads. The combination of the swing-arm actuator, associated electronics, and head configuration allow the CM 7000 to achieve a track density of 1173TPI, while providing virtually silent operation for today's office environment.



REV 11-85

Printed in U.S.A.

CM 7000

Performance Specifications:

4/10/86

Capacity:	CM 7030	CM 7038	CM 7053	CM 7085
Unformatted:				
Per Drive	30.54 Mbytes	38.17 Mbytes	53.44 Mbytes	85.33 Mbytes
Per Surface	7.63 Mbytes	7.63 Mbytes	7.63 Mbytes	10.67 Mbytes
Per Track	10.416 bytes	10.416 bytes	10.416 bytes	10.416 bytes
Formatted:				
Per Drive	24.04 Mbytes	30.2 Mbytes	42 Mbytes	67.1 Mbytes
Per Surface	6.01 Mbytes	6.01 Mbytes	6.01 Mbytes	8.39 Mbytes
Per Track	8.192 bytes	8.192 bytes	8.192 bytes	8.192 bytes
Per Sector(32sectors)	256 bytes	256 bytes	256 bytes	256 bytes

Density:

Recording Density	9275 bpi	9275 bpi	9275 bpi	9275 bpi
Track Density	902 tpi	902 tpi	902 tpi	1173 tpi
Cylinders	733	733	733	1024
Recording Surfaces	4	5	7	8
Tracks	2932	3665	5131	8192
R/W Heads	4	5	7	8
Disks	3	3	4	5
Dedicated Servo Head	1	1	1	1

Functional Specifications:

Rotational Speed	3600 rpm	3600 rpm	3600 rpm	3600 rpm
Transfer Rate	5Mbits/sec	5Mbits/sec	5Mbits/sec	5Mbits/sec
Access Time (includes settle time)				
Track to Track	9 msec	9 msec	9 msec	9 msec
Average	39 msec	39 msec	39 msec	39 msec
Maximum	75 msec	75 msec	75 msec	75 msec
Average Latency	8.3 msec	8.3 msec	8.3 msec	8.3 msec

Physical Specifications:

Environmental Limits	
Ambient Temperature	50°F to 122°F (10°C to 50°C)
Relative Humidity	8% to 80% non-condensing
Temperature Variation	18°F (10°C) hour
Altitude	10,000 ft. (3050cm)

DC Voltage:

+5V ± 5% 0.9A typical, 1.0A max
+12V ± 5% 1A typical, 3A seeking, 3.5A max

Mechanical Dimensions:

Height	3.25 in. (82.6 mm)
Width	5.75 in. (146.1 mm)
Depth	8.00 in. (203.2 mm)
Weight	5 lbs. (2.3 kg)

Reliability Specifications:

MTBF:	17,000 POH typical usage
PM:	Not required
MTR:	less than 0.5 hour
Error Rates:	
Soft Read Errors:	1 per 10 ¹⁰ bits read
Hard Read Errors:	1 per 10 ¹² bits read
Seek Errors:	1 per 10 ⁶ seeks
Interface	ST/506

Computer Memories reserves the right to change specifications without notice.



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