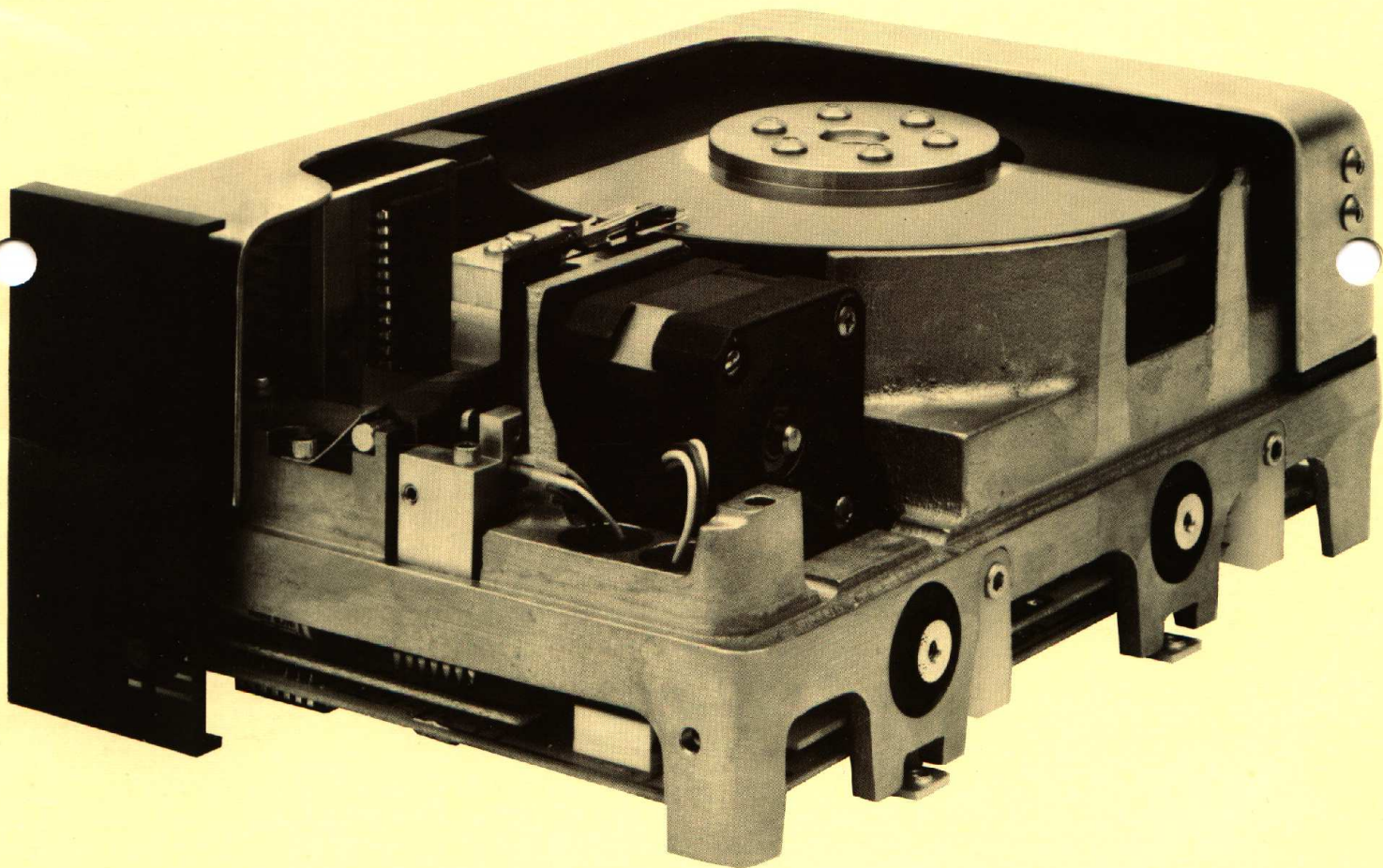


MiniScribe I



5 1/4 inch Winchester Disk Drive

MiniScribe I

The professional staff of MiniScribe Corporation has applied its 50 years of disk drive design and manufacturing experience, including 30 years in Winchester technology, to offer the OEM, a...

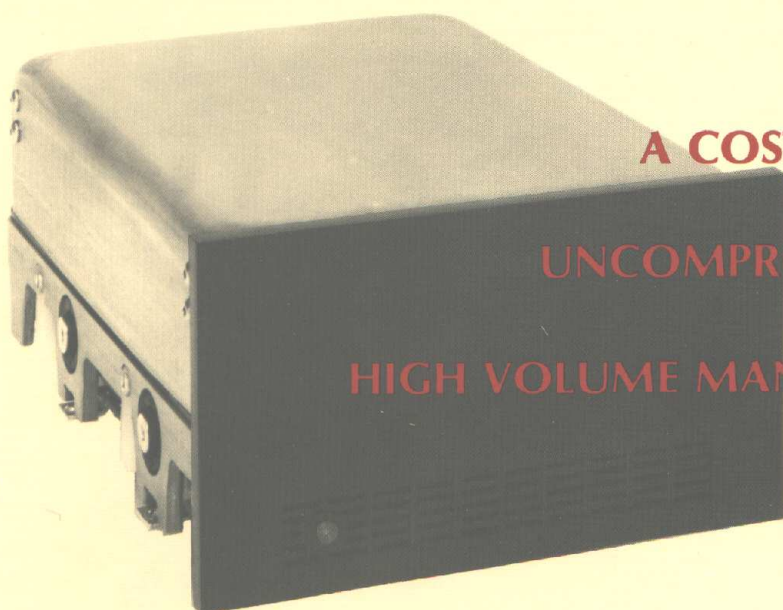
- Storage Efficient...
- Cost Effective...

5¼ inch Winchester Disk Drive

MiniScribe I

Available in one and two disk models, with 6.4 and 12.8 megabytes of unformatted data storage capacity.

High performance Winchester technology, coupled with an innovative combination of traditional disk technologies equal.....



AN ADVANCED DESIGN

A COST-EFFECTIVE PRODUCT

UNCOMPROMISED RELIABILITY

HIGH VOLUME MANUFACTURABILITY

12.8 Megabytes

2 or 4 Ferrite Read/Write Heads

Read Preamplifier, Head Selection Integrated Circuit

0.3 Micron Recirculating Filter

Optical Track O Detector

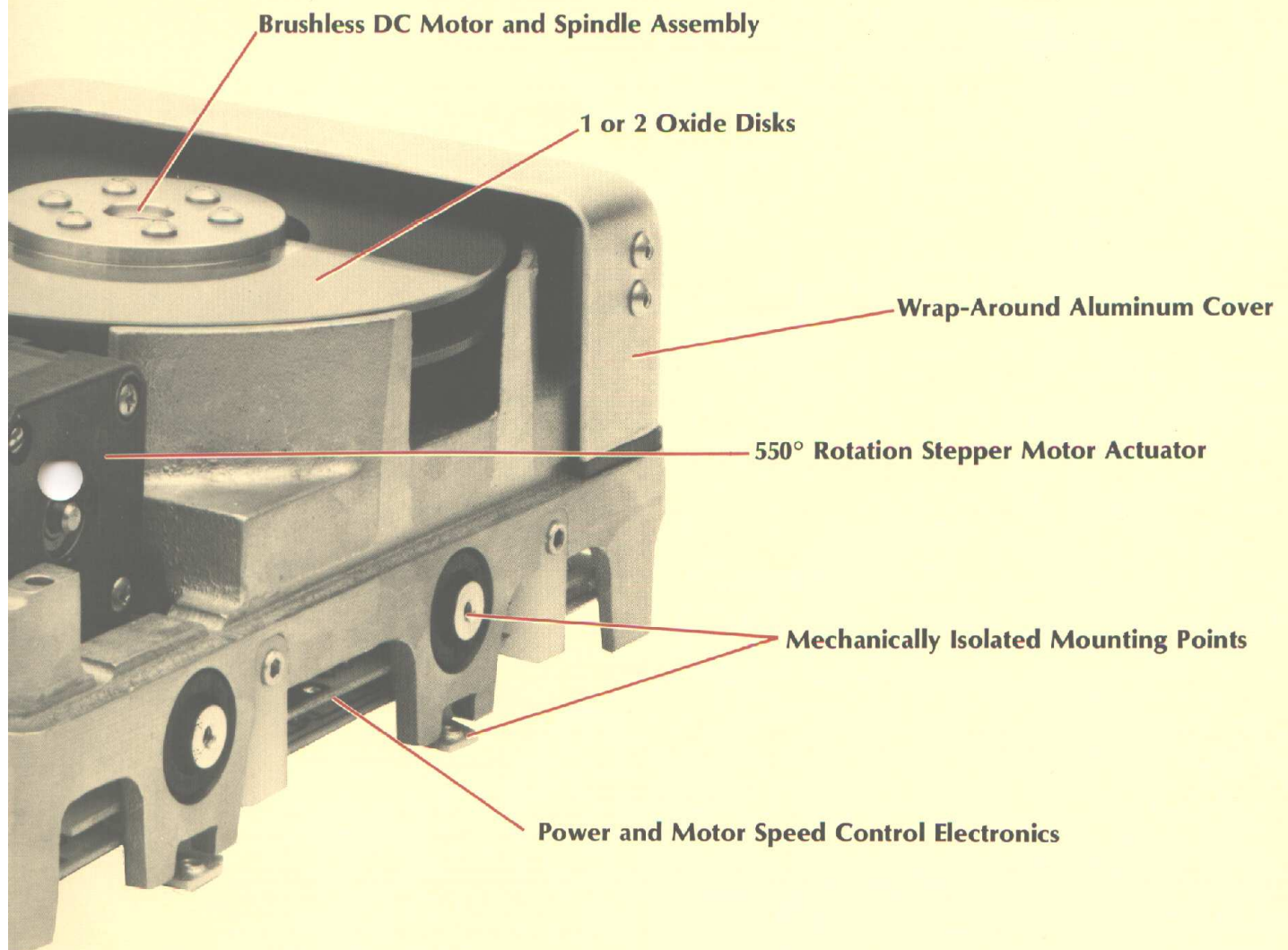
Read/Write/Seek and Control Electronics

LOW COST

■ A rack and pinion motion translator, similar to that used on the IBM 1311, 2311 and 2314 Disk Drives, provides for the increased number of recording tracks while retaining the full step holding torque and positioning repeatability of the stepper motor actuator. The head positioning repeatability is further enhanced by efficient temperature compensation (patent pending) insuring in-specification performance over the operating temperature range.

■ Within the factory sealed enclosure, a recirculating air system, containing a 0.3 micron filter, plus a unique breather filter arrangement (patent pending), guarantees a clean pressurized operating environment to the heads and disks.

6.4 Megabytes



CONSERVATIVE TECHNOLOGY

Reliable operation within electrically noisy environments is achieved with an improved read channel utilizing an integrated circuit amplifier in close proximity to the read/write heads.

■ MiniScribe I uses the ST506 interface with the same dc voltages and physical form factor as the 5¼ inch floppy drive.

Performance and Reliability

MODEL SPECIFICATIONS

	Model 1006	Model 1012
Storage Capacity-Unformatted		
Per Drive	6.4 MBytes	12.8 MBytes
Per Track	10,416 Bytes	10,416 Bytes
Storage Capacity-Formatted		
Per Drive	5.0 MBytes	10.0 MBytes
Per Track	8,192 Bytes	8,192 Bytes
Per Sector	256 Bytes	256 Bytes
Sectors per Track	32	32
Data Tracks	612 (1 disk)	1224 (2 disks)

GENERAL SPECIFICATIONS

Recording Density	
Areal	3.46x10 ⁶ bits per square inch
Linear (MFM)	8605 bpi
Radial	402 tpi
Cylinders	306
Data Transfer Rate	5.0 Mbits per second
Access Time	
Average Latency	8.33 msec
Seek Time	
Track-to-Track	1.75 msec (minimum)
Average	179 msec (125 msec software scheduled)
Maximum	534 msec (375 msec software scheduled)
Settling Time	15 msec
MTBF	8000 hours (continuous operation)
MTTR	30 minutes
Preventive Maintenance	None
Data Reliability	
	1 soft error in 10 ¹⁰ bits read
	1 permanent error in 10 ¹² bits read
	1 seek error in 10 ⁶ seeks
Input Power Required	
	+12VDC±5%, 1.6 amps
	3.5 amps start (15 seconds)
	+5VDC±5%, 0.6 amps
Operating Temperature	40°F (4°C) to 115°F (46°C)
Relative Humidity	
	8% to 80%, non condensing
	78°F (26°C) maximum wet bulb
Physical Size	3.25 in. H x 5.75 in. W x 8.00 in. D
Weight	5.5 pounds

Specifications subject to change without notice

MiniScribe I

Truly Outstanding

MiniScribe Corporation

410 South Sunset
Longmont, Colorado 80501
(303) 651-6000

