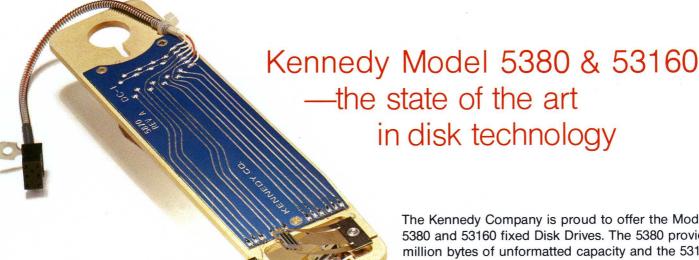


Model 5380 & 53160 Disk Drives





Series Features:

Design and Construction

- 3350 Media
- · Winchester Heads
- Rotary Positioner (Voice Coil)
- Closed Loop Air Circulation System
- Rack Mountable
- Storage Module interface and format Compatible
- Fixed or Variable Length Sector
- Internal Write Precompensation
- · Marginal Data Recovery

Maintainability

- Single Function Plug in Boards
- Fault Logic Board Visually Identifies Fault
- Zero Preventive Maintenance

Application

- Integral Power Supply
- Brown Out Protection
- Non-Computer Room Environment

The Kennedy Company is proud to offer the Models 5380 and 53160 fixed Disk Drives. The 5380 provides 82 million bytes of unformatted capacity and the 53160 stores 165 million unformatted bytes. These high performance, low cost devices employ proven Winchester Technology and are engineered to provide the OEM with low cost of ownership through:

Design and Construction

- Extremely high density recording is possible by using 3350 type media (6330 BPI)
- Low mass Winchester Heads offer flying heights of 19
 μin thereby allowing higher track densities (430
 TPI/680TPI)
- Track following Servo positioner reducing Seek errors to 1 in 10⁶ Seeks
- A positive pressure closed loop air circulation system allowing 20,000 landing/takeoffs from the 3350 lubricated media without the danger of head crashes
- Single piece unit rack mountable in a 19" x 24" RETMA rack
- Storage Module Interface and format compatibility
- A choice of fixed or variable sector lengths (1-256)
- Internal Write precompensated Data for greater data reliability, and
- Controller capability to recover marginal data through data strobing techniques

Maintainability

- Single function, printed circuit boards simplifying debugging and maintenance
- Fault logic board with nine fault indicator lamps for easier diagnosis
- Zero preventive maintenance

Application

- An integral power supply saving rack space and wiring
- ±10% voltage tolerance for brown out protection
- Sealed module for non-computer room environment

Specifications

AC

DC

		_		
Ma	Or	Com	nor	ents
IVICA	U	COIII	PUI	CIILO

Major Components						
Electronics	TTL, Schottky, ECL, Analog and					
2		Discrete Components				
Positioner		Rotary Actuator				
Headload/Unload Mechanism		Winchester Technology				
Spindle Motor	Induction					
Mechanical Framework	Cast Aluminum					
Recording Characteristics	5380 53160					
Recording	Modified Frequency Modulation (MFM)					
Recording Density (Bits per Inch)		6330		6330		
Track Density (Tracks per Inch)		430 680		680		
Track to Track Spacing	0.0023 Ir	nches	0.00147			
Head Type	Monolithic Composite					
Head Flying Height	19-21 Micro Inches (μin)					
Servo Surfaces	1 1					
Compatibility						
Interface	 Storage Module Disk (SMD) Interface 					
Performance Characteristic	cs					
BIT Transfer Rate	8MHz (1000kB/sec)					
Data Capacity (Unformatted)	82 Megabytes 165 Megabytes					
Sector Size	Fixed or Variable (1-256)					
Data Heads/Surface	2		2			
No. of Servo Tracks per Drive	9	412 823				
No. Data Tracks per Surface	823 1646					
No. of Platters		3 3				
Positioning Characteristics						
Single Track	10 Milliseconds Max.					
Average		30 mSec		Α.		
Max. Track		55 mSec	70			
Latency Time		10 mSec				
RPM		3000 Rev/Min.				
Error Rates						
Recoverable Read		1 in 10 ¹⁰ BITS Transferred				
Seek		1 in 10 ⁶ Seeks				
Environmental Limits	Operating	1	Non-Operat	ting	Transit	
Temp. (°F)	50 to 104		-14 to 122		-40 to 158	
R.H. (%) Non-condensing 20 to 80		5 to 95			0 to 100	
Reliability & Service Goals						
MTBF	10,000 Hrs.					
MTTR		< 1 Hr.				
Service Life		5 Years				
Physical Parameters						
Panel Size		7 In. x 19 In. Standard				
Depth Behind Panel		24.75 In.				
Weight	75 Lbs.					
Power Requirements	wer Requirements Stand			Opti	onal	
10	400.17	- H- CO II	_	100	Valta EO Uz	

None

120 Volts 60 Hz

100 Volts 50 Hz 100 Volts 60 Hz 220 Volts 50 Hz 230 Volts 50 Hz 240 Volts 50 Hz

None



All Model 5380s and 53160s are assembled in Kennedy's 2000 sq. ft. Class 100 clean room.



CORPORATE HEADQUARTERS

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Kennedy Means Quality

Kennedy understands both your needs and those of your customers. Kennedy, a leader in OEM products, provides advantages in price, performance, reliability, service and quality. The 5380/53160 are designed using "State of the Art" technology and engineered for performance. Take a close look, test, evaluate and compare. You'll find the Kennedy quality and reliability that is demanded of you by your customers.

Kennedy Means OEM Services

Kennedy Company recognizes the need for factory assistance in the many areas required to satisfy today's demanding OEM Market. Among the areas in which Kennedy Company offers assistance are:

Application Engineering. During the initial phases of the 5380/53160 program, a qualified engineer will assist you in integrating the device to your system. Should problems arise he will be prepared to make recommendations for interface controller hardware and firmware improvements.

Service Seminars. A skilled staff is available to train customers in the operation, care and maintenance of all Kennedy products. These seminars can be held at Kennedy Company in either the U.S. or European Headquarters, or at the customer's facility.

OEM Spare Parts. Kennedy Company maintains fully stocked spare parts depot at strategic locations in the U.S. and Europe. Many years of experience serving the OEM Market have provided us with a professional and responsive spare parts capability. We are committed to ship your spare parts within 48 hrs. after the order is received. We can provide you with a recommended spare parts list on optimum level of spare parts to profitably service both yourself and your customers.

Service Support. Our own field engineering staff is available to support your customer engineers upon request. Factory trained service centers are also available in strategic cities worldwide.