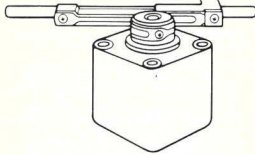
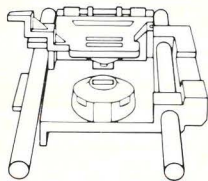


# MPI Floppy Disk Drives 250K-Byte to One Megabyte



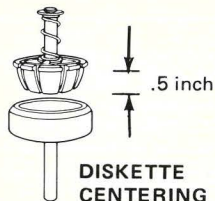
## BAND POSITIONER

Virtually frictionless. Provides 5ms. access time. Extremely accurate and reliable positioning.



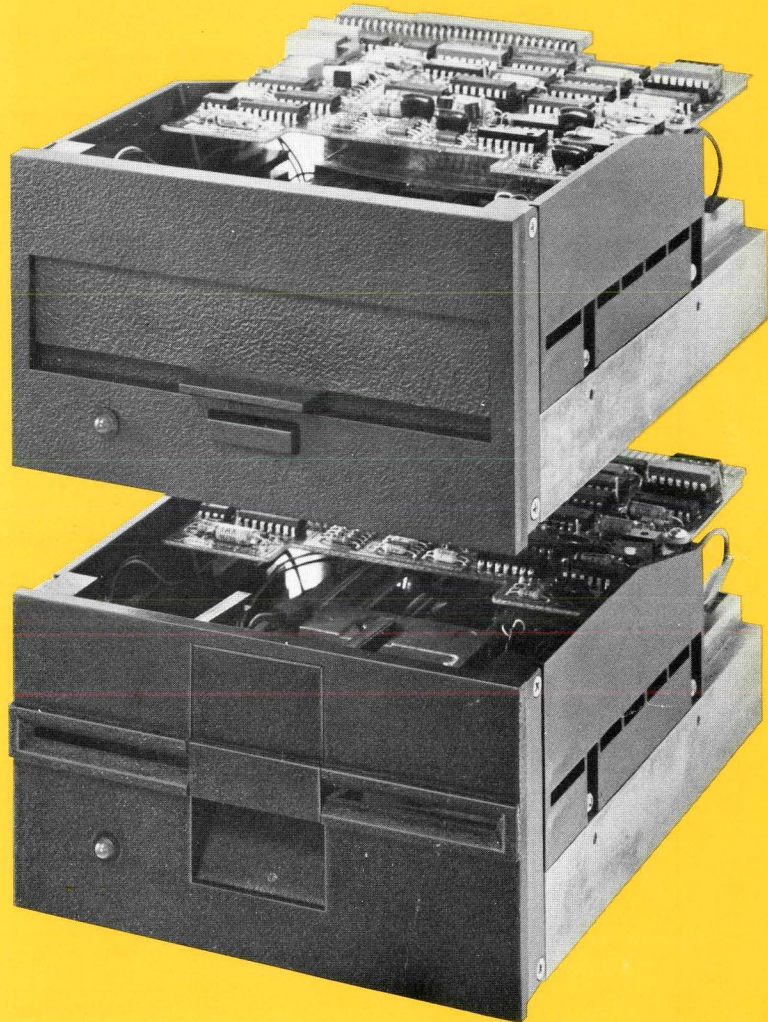
## HEAD AND CARRIAGE

Head centered between two parallel rods to eliminate radial positioning errors. Bottom head fixed; top head loads.



## DISKETTE CENTERING

Clutch mechanism provides most accurate diskette positioning (within .0008) and longest diskette life.



MPI's high performance mini floppy disk drive family includes single-sided double-density, and double-sided double density drives in both 48 and 96 TPI configurations. Unique features of the MPI drives are: • a patented stepper-band positioner • the industry's longest carriage • proprietary clutch and diskette ejector mechanisms • electronics packaged on a single PCB • low power consumption. Key options include a Shugart front door.

9754 Deering Avenue  
Chatsworth, California 91311  
Phone: (213) 709-4202  
Telex: 910-494-1213



MICRO PERIPHERALS INC.

# High-Performance Mini Floppy Disk Drives

## MODEL 51

250K-Byte Capacity  
Single Sided  
Double Density  
48 TPI

## MODEL 52

500K-Byte Capacity  
Double Sided  
Double Density  
48 TPI

## MODEL 91

500K-Byte Capacity  
Single Sided  
Double Density  
96 TPI

## MODEL 92

1 Megabyte Capacity  
Double Sided  
Double Density  
96 TPI

	51	52	91	92
<b>Capacity Specifications (In 10<sup>3</sup> bytes)</b>				
Single Density (unformatted)				
Per Disk	125	250	250	500
Per Track	3.13	3.13	3.13	3.13
Double Density (unformatted)				
Per Disk	250	500	500	1000
Per Track	6.25	6.25	6.25	6.25
<b>Functional Specifications</b>				
Tracks	40	80	80	160
Track Density (TPI)	48	48	96	96
Recording Density (max. BPI)				
Single Density	2768	2938	2788	2961
Double Density	5536	5876	5576	5922
Rotational Speed (RPM)		300 ±1%		
Average Latency		100ms		
Transfer Rate				
Single Density		125K bits/sec		
Double Density		250K bits/sec		
Encoding Method		FM, MFM, M <sup>2</sup> FM		
Access Time				
Track to Track		5ms		
Average	84ms (51/52)		150ms (91/92)	
Head Settling Time		15ms		
Head Load Time		35ms		
Power-Up Delay		0.5sec		
Interfacing		Industry/ANSI compatible		
<b>Physical Specifications</b>				
Environmental				
Operating Temperature		40°F to 115°F (4.4°C to 46.1°C)		
Non-Operating Temperature		-40°F to 160°F (-40°C to 71°C)		
Operating Humidity		20% to 80% (non-condensing)		
Non-Operating Humidity		5% to 95% (non-condensing)		
Electrical				
DC Power		+12V±5%, 0.8 Amp (1.5 Amp surge)		
		+5V±5%, 0.4 Amp		
Power Dissipation		12W operation; 6W standby		
Mechanical				
Height		3.25 in. (82.6 mm)		
Width		5.75 in. (146.1 mm)		
Length		7.75 in. (196.9 mm)		
Weight		3.0 lbs. (1.36kg) for 51/52		
		3.1 lbs. (1.41kg) for 91/92		
Media Requirements				
Diskette		Industry Compatible, 5 1/4 in.		
Sectoring		Soft; 10, 16		
Type		Single or Double Sided		
		Single or Double Density		
<b>Reliability Specifications</b>				
MTBF		9,200 hours		
MTTR		0.5 hours		
Design Life		5 years		
Media Life		3x10 <sup>6</sup> passes/track		
Data Integrity				
Soft Errors		1 per 10 <sup>9</sup> bits read		
Hard Errors		1 per 10 <sup>12</sup> bits read		
Seek Errors		1 per 10 <sup>6</sup> seeks		
UL And CSA Approved				

### Options

Door Lock  
Shugart Front Door (Add --S)  
Detailed design data available on request.