

# ISS

## SERIES 550

### 550—OEM HEAD PER TRACK DISK DRIVE

#### FEATURES:

- Four models with storage up to 51.2 MBits
- Selective Track capacity
- Self clocked data
- Data encoding and decoding in disk drive
- TTL interface
- 14" diameter nickel cobalt plated disk
- Low mass start/stop contact Monolithic read/write heads
- Simplified mechanical design
- Permanent absolute air filter
- Closed air system
- No scheduled preventive maintenance
- Simplified 50/60 HZ conversion
- Compact low profile design
- 19" rack mount (17.63" over standard slides)

#### OPTIONAL FEATURES:

- Data transfer rate
- Data rate buffering
- Write lock out
- Data sector size
- DC power supply
- Disk rotational speed

The ISS Series 550 Disk Drive is the most advanced Head Per Track unit in the industry. Advanced Winchester Equivalent Read/Write heads combined with rugged nickel cobalt disk assures continued error free operation. Four models of the Series 550 provide storage capacity up to 51.2 million bits on a single disk.

To simplify controller design, data encoding and decoding circuitry is provided in the Series 550 disk drive. The ISS OEM interface provides a simple means of communicating with the drive using only digital signals.

Each of the models in the Series 550 is available in the standard 3600 RPM version or an optional 3000 RPM version. This option, plus the availability of a low density 6000 bits per inch recording capability or the standard 7860 bits per inch, gives the designer the flexibility needed for his specific application.

The Series 550 has been engineered to incorporate a simplified mechanical design with only one-fourth the usual mechanical parts used in conventional designs. This design combined with a permanent absolute filter and closed air system results in a highly reliable unit which **DOES NOT REQUIRE SCHEDULED PREVENTIVE MAINTENANCE.**

# SERIES 550 HEAD PER TRACK DISK DRIVE

<u>CHARACTERISTICS</u>	<u>MODEL 551</u>	<u>MODEL 552</u>	<u>MODEL 553</u>	<u>MODEL 554</u>
Capacity — Standard	12.8 MBits	25.6 MBits	38.4 MBits	51.2 MBits
Optional	9.6 MBits	19.2 MBits	28.8 MBits	38.4 MBits
Tracks	64	128	192	256
Bit Density—Standard	7860 Bits/In.	7860 Bits/In.	7860 Bits/In.	7860 Bits/In.
Optional	6000 Bits/In.	6000 Bits/In.	6000 Bits/In.	6000 Bits/In.
Recording Surfaces	1	1	2	2
No. of Heads (Spares)	64 (4)	128 (8)	192 (12)	256 (16)
Disk RPM — Standard	3600 ± 4%	3600 ± 4%	3600 ± 4%	3600 ± 4%
Optional	3000 ± 4%	3000 ± 4%	3000 ± 4%	3000 ± 4%
Access Time				
3600 RPM	Standard	8.33 MS ± 4%		
3000 RPM	Optional	10.0 MS ± 4%		
Data Transfer Rate				
3600 RPM	Standard	12 X 10 <sup>6</sup> Bits/Sec.		
3000 RPM	Optional	10 X 10 <sup>6</sup> Bits/Sec.		
Start Up Time		30 Sec.		
AC Power		120/240 + 6%—15% 60 HZ ± 2%		
		120/240 + 6%—15% 50 HZ ± 2% Single Phase		
DC Power		+5.0V ± 5% @ 5A -5.2V ± 5% @ 5A +12.0V ± 5% @ 3A -12.0V ± 5% @ 3A		
Temperature Range — Operating		32°F—122°F 0°C—50°C		
Humidity Range — Operating		10%—90% R.H. (No Cond.)		
Physical Dimensions —	Height	8.75"		
	Width	19.0" Rack Mount		
	Depth	24.5"		
	Weight	95 Lbs.		

ISS 550 — TWICE THE PERFORMANCE

**SPERRY UNIVAC**

ISS is an operating unit of Sperry Univac  
Sperry Univac is a Division of Sperry Rand Corp.