

NOV 3 1987



Swift™ 3½-inch Rigid Disk Drives

Designed for Original Equipment Manufacturers (OEM)

The Control Data Swift is a family of high-performance 3½-inch rigid disk drives.

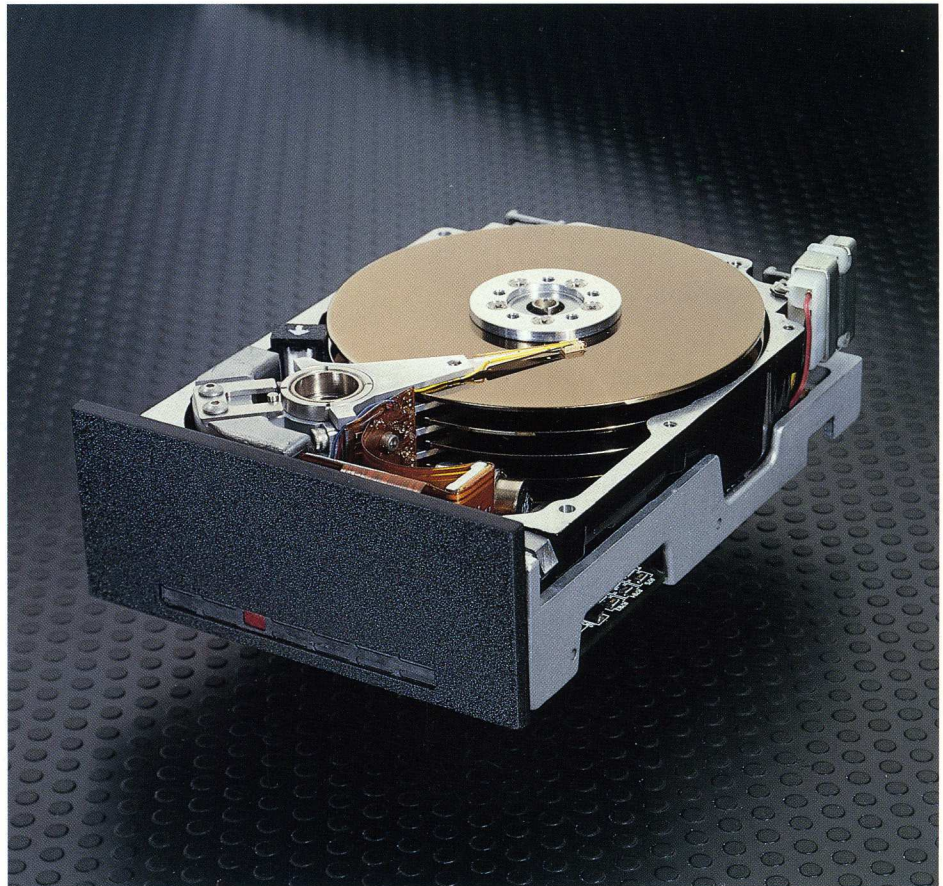
Available in capacities up to 200 megabytes (unformatted) and a fast 16.5-ms average seek time, the Swift is the highest-capacity, highest-performance 3½-inch disk drive in the industry. This industry-leading performance is achieved through use of a low-mass, straight-arm actuator as well as new and innovative mechanical designs and high-density surface-mount electronics.

The Swift family uses thin-film heads and media and features a dedicated servo surface that allows for variable sector storage to increase user performance.

The Swift offers a variety of industry-standard interfaces (SCSI, ESDI, ST506) and supports industry-standard sector formats. The SCSI model supports the Common Command Set of instructions for the SCSI interface.

Features

- Up to 200 megabytes
- 16.5-ms average seek
- Rotary voice coil actuator with proven in-line head arm
- Adaptive trajectory dedicated servo control loop with absolute addressing
- 30,000-hour MTBF
- Industry-standard interfaces
 - SCSI
 - ESDI
 - ST506
- Intelligent interface option programmability
- Industry-standard sector formats
- Phase-locked spindle system
- Closed-loop, dedicated servo
- High-torque, low-power, integral, sealed spindle motor
- High-density surface mount electronics packaging
- Sealed head/disk/actuator assembly
- Dedicated head landing zone
- Shock mounted HDA
- Low power consumption
- Vertical or horizontal mounting
- In-line interface and power connector for easy installation



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SPECIFICATIONS	94351-172	94356-200	94355-150	94355-100	94355-55	94335-150	94335-100	94335-55
Capacity (Mbytes)								
Unformatted	200	200	150	100	55	150	100	55
Formatted	172	172	128	83	46	128	83	46
Configuration								
Number of disks	5	5	5	5	3	5	5	3
Data surfaces	9	9	9	9	5	9	9	5
Servo surface	1	1	1	1	1	1	1	1
Performance								
Average latency (ms)	8.33	8.33	8.33	8.33	8.33	8.33	8.33	8.33
Average seek typical (ms)	16.5	16.5	16.5	16.5	16.5	25	25	25
Interface								
Type	SCSI	ESDI	ST506	ST506	ST506	ST506	ST506	ST506
Transfer rate (Mbits/sec)	10	10	7.5	5	5	7.5	5	5
(Kbytes/sec)	1250	1250	938	625	625	938	625	625
Power Dissipation (Watts)								
	12	12	10	10	10	10	10	10
DC Power Requirements								
	+5V (± 5%)							
	+12V (± 5%)							
Shock and Vibration								
Shock								
Operating (Recoverable)	10G							
Non-operating	50G							
Vibration								
Operating (Recoverable)	0.75G							
Non-Operating	1G							
Environmental								
Temperature								
Operating	10 to 50°C (50 to 122°F)							
Storage	-10 to 54°C (14 to 130°F)							
Relative humidity								
Operating	8 to 80%							
Storage	8 to 90%							
Altitude								
Operating	-300 to 3,000m (-1,000 to 10,000 ft)							
Physical								
Height	41.3 mm (1.625 in)							
Width	101.6 mm (4.00 in)							
Depth	146 mm (5.75 in)							
Weight	0.98 kg (2.2 lb)							

Distributed by:

Specifications subject to change without notice.

Control Data sales offices are located in principal cities throughout the world.

 CONTROL DATA

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