

# StorageWorks

## STORAGEWORKS DISK DRIVES

### Industry-leading SCSI Disk Drives

digital



High capacity or  
high I/O rates

Flexible configurations

Industry-standard storage

Quick-swap for  
easy maintenance

Since no one disk drive can answer every storage need—different applications require different computer and storage solutions—Digital offers selected disk drives for use in the StorageWorks enclosures to meet varied application requirements. Multiuser applications such as transaction processing, for example, are generally characterized by many requests for small amounts of data. The metric for disk choice in this environment is usually I/Os per second per dollar and is handled best by multiple small-to-medium capacity drives. On the other hand, single-user applications such as modeling, imaging, and seismic analysis involve large sequential files and typically require high bandwidth. In these applications, drives are chosen for their superior spiral transfer rates and cost per megabyte. Digital's SCSI-2 disk drives for StorageWorks enclosures offer the capacity, performance, and price alternatives to satisfy the diversity of these applications and environments.

Available in modular StorageWorks building blocks, Digital's 3.5-inch and 5.25-inch SCSI disk drives fit into a variety of StorageWorks enclosures and the DEC 7000 and DEC 10000 AXP systems. To achieve the high I/O rates necessary for multiuser applications, a StorageWorks building block shelf can hold up to seven 3.5-inch SCSI drives. For high single-drive capacity, the StorageWorks building block shelf will accommodate two 5.25-inch SCSI drives and one 3.5-inch drive. The modularity of the building blocks permits customer installation, quick-swap for maintenance, and rapid reconfiguration to keep service costs low and protect your investments.

## WHY DIGITAL SCSI DISKS?

Digital's industry-standard SCSI-2 disk devices provide superior data integrity through the incorporation of features once found only in Digital's DSA (Digital Storage Architecture) storage products. Among these features are:

- 264-bit error correction code, which corrects errors in up to 15 bytes per disk block (512 bytes)
- Quadruplicate headers, which assure proper identification and transfer of correct data
- Comprehensive power-up self-diagnostics and device testing help provide early warning of potential drive failure
- Atomic write, so that in the event of a power failure or bus reset, writes-in-progress are completed
- Extended operating temperature specification (10°–50°C), provides higher reliability in the desktop environment where ambient temperatures are not closely controlled
- Exhaustive testing of disk drives on all Digital systems, and in combination with all other Digital peripherals which share the bus, assures full system compatibility

Digital's commitment to open systems includes an extensive family of SCSI disk devices to suit a broad range of computing needs. With the unique combination of these superior disk devices and truly modular packaging, the StorageWorks approach offers a new dimension in flexibility and control for mass storage.

## SPECIFICATIONS

	RZ28-VA	RZ26-VA	RZ25L-VA	RZ74-VA	RZ73-VA
Form factor	3.5-inch	3.5-inch	3.5-inch	5.25-inch	5.25-inch
Capacity (MB)	2,100	1,050	535	3,500	2,000
Average seek time (ms)	<10.0	9.5	10.5	12.0	12.9
Average access time (ms)	<15.6	15.1	16.0	17.5	21.2
Rotational speed (RPM)	5,400	5,400	5,400	5,400	3,600
Transfer Rates:					
Media transfer rate (MB/s)	3.4–6.9	3.3	2.9–5.2	5.2–6.9	2.8
On-track (MB/s)	2.7–5.5	2.6	2.5–4.5	3.7–5.5	2.2
Max. bus bandwidth (MB/s)	10.0	10.0	10.0	10.0	10.0
Operating environment (°C)	5–55	10–50	5–50	10–50	10–50

### Physical:

Carrier-mounted 3.5-inch and 5.25-inch devices are StorageWorks building blocks. Building block/carrier dimensions are:

Form factor	Height	Width	Depth
	(mm/in)	(mm/in)	(mm/in)
3.5-inch	121/4.8	51/2.0	216/8.5
5.25-inch	121/4.8	152/6.0	267/10.5

*Non-operating temperature can be: –40°C to 66°C, 10% to 80% relative humidity.*

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Digital will conduct its business in a manner that conserves the environment.

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