

Burroughs

B 9383-8 Disk Storage/Dual Controller Disk-Pack Drive Subsystem



The B 9383-8 is an ideal batch or on-line storage and retrieval unit with a transfer rate and access time rivaling higher priced units. The engineering advances assure reliability, flexibility and programming ease. Its low cost-per-character storage brings economy to each installation.

General Characteristics

■ Economy

The basic B 9383-8 Disk Storage/Dual Controller Disk-Pack Drive Subsystem includes a dual path controller and five dual disk-pack drives.

The B 9383-8 Subsystem has a basic capacity of 872 million bytes of storage and may be expanded to a 1,395.2 million byte, sixteen-spindle subsystem by the

addition of B 9486-4 Dual Drive (174.4MB capacity) and/or B 9486-45 Single Drive (87.2MB capacity) increments.

■ Performance

Average random access time is 30 ms (average latency 12.5 ms). This high speed results from the disk file's magnetic actuator.

Each read/write head (one per disk surface) is attached to the magnetic actuator, forming a comblike mechanism. The actuator positions each head over corresponding tracks on each disk surface at the same time.

Segment size is 180 bytes.

Data transfer rate is 625,000 bytes per second.

■ Ease of Operation

A sequential addressing scheme permits a "cylinder" of data to be accessed (i.e., data on corresponding tracks on each disk surface is accessed without head movement.). This reduces effective total access response time in sequential file accessing, file updating, and file maintenance.

The dual drives (included) and increments contain independent disk-pack drives, each containing 11 disks with 20 data recording surfaces. Each drive is contained in a sliding assembly. A pack may be removed without affecting the on-line operation of the other drive.

Each control provides a simultaneous access capability with simultaneous read/write/seek operations. The control also includes on-line pack initialization, automatic error detection and correction, automatic data relocation, and data verification capabilities.

Two disk-pack drive controls (B X304) are required for the B 9383-8 subsystem.

Physical Characteristics

■ Controller (Dual)

Width: 32 inches—81.3 cm
Depth: 34 inches—86.3 cm
Height: 60.5 inches—153.7 cm
Weight: 410 pounds—186.3 kg

■ Dual Drive

Width: 32 inches—81.3 cm
Depth: 34 inches—86.3 cm
Height: 61 inches—154.6 cm
Weight: 850 pounds—386.3 kg



B 9974-4 Disk Pack for all B 9383-8 Subsystem Drives