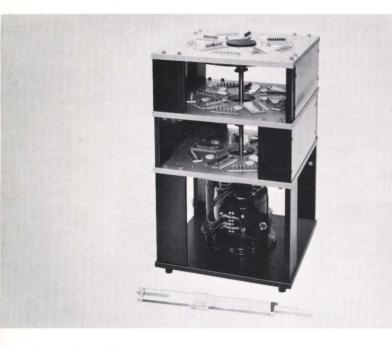


LIBRASCOPE engineering data



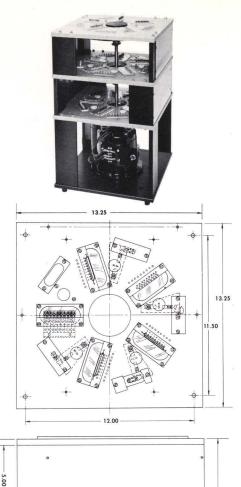
randomaccess disc memory

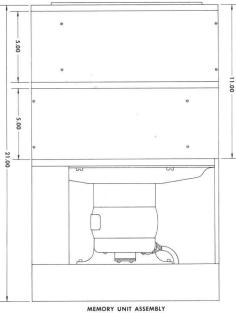
DESCRIPTION—Librascope random-access disc memories can be used to provide data storage and transfer in a wide variety of computer systems and peripheral equipment or wherever rapid-access memory is a system requirement. They feature a flying head per track and a nonwearing, plated cobalt recording surface, providing superlative magnetic performance under all conditions of operation. The Model L-323 magnetic storage discs are stacked in a compact assembly of three and have a maximum capacity of 1,000,000 bits and are available with an average access time of either 17 or 25 milliseconds.

SPECIAL FEATURES — The superior but simplified disc and head design results in more efficient packaging than has previously been available and in a lower-cost product. The recording disc surfaces, plated with a cobalt coating, are smooth and long-wearing, unaffected by multiple start-and-stop operations. The flying head is in contact with the metallic recording surface when the disc is not rotating. The inherent hardness of the cobalt plating provides high resistance to abrasive wear and relative insensitivity to accidental damage.

All materials, fits, and design proportions of the basic structure are selected to compensate for the temperature differentials the disc assemblies may encounter in storage and in operation. For strength, rigidity, and lightness of weight, all discs and supporting structures are made of aluminum.

APPLICATIONS—Random-access disc memories are used in computer systems and peripheral equipment as the main storage or buffer storage, or they supplement other memory. In a typical computer system, the magnetic disc memory provides an inexpensive, rapid-access, reliable storage with sufficient capacity for many programs. In peripheral equipment, such as visual computer displays, they make possible a constant (no-flicker) variable-size display.





MODEL L-323

randomaccess disc memory

GENERAL CHARACTERISTICS

Power requirements
Axis of rotation
Recording diameters
Number of tracks
Number of registers
Register length
Register adjustment ±0.018 in.
Bits per track (max.)
Track width
Tracks per inch
Capacity (total)
Packing density (max.) 400 bits/in. at 4.7 in. dia.
Rotational speed
Frequency (repetition rate)
Recording surface Proprietary plated cobalt
Head spacing
Head inductance (typical) 1 mh/half coil
Write current (typical)
Readback voltage (typical)
1200 rpm
Bearing life (average)

LIBRASCOPE GROUP



COMMERCIAL COMPUTER DIVISION

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