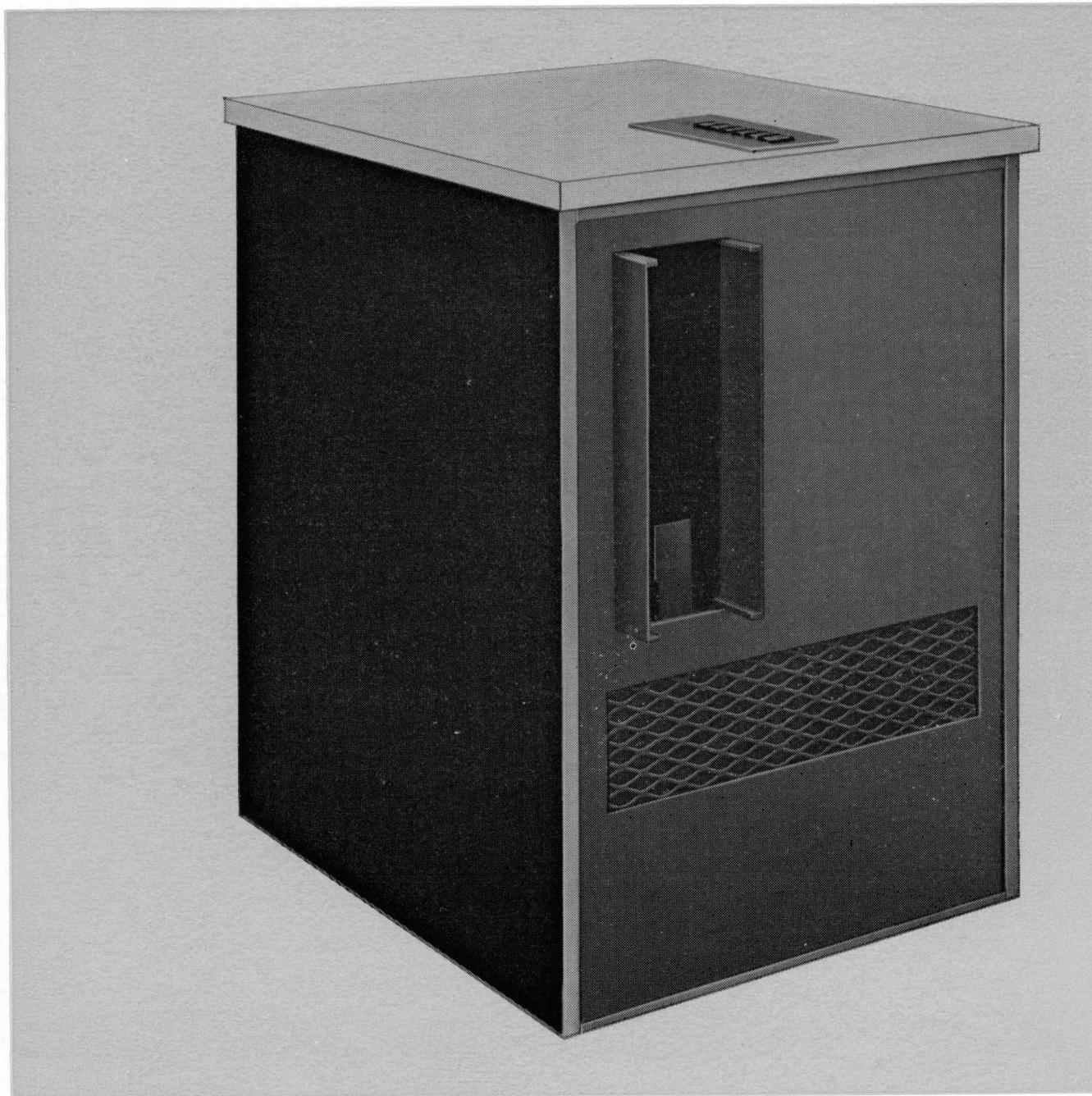




I.C.T 1900 SERIES

EXCHANGEABLE DISC STORE 1953



DESCRIPTION

The 1953 Exchangeable Disc Store is a Direct Access system with a data storage media of removable cartridges each comprising of six magnetic recording discs. The twelve surfaces of the discs in the cartridge are used for recording and a total capacity of 4.03 million alpha-numeric characters. Four transports can be attached to a control giving an on-line capacity per control of 16.12 million characters (four cartridges).

The disc cartridge can be easily removed and replaced by an operator in about a minute. Off-line storage of cartridges means that virtually an unlimited file capacity is available. The cartridge provides cover and protection for the discs when withdrawn from the transport.

- Unlimited storage capacity in exchangeable cartridges
- Up to 16.12 million character storage on-line per control
- Characters transferred at 66,000 per second
- Access time 87.5 milli-seconds
- 40,320 characters available on any head positioning

EXCHANGEABLE DISC STORE 1953

Recording

Both faces of the disc are used for recording and each accommodates 200 bands. A band is divided into four blocks, each with a capacity of 420 characters.

Six-bit characters are recorded serially along a track with a parity bit to each word of four characters.

Read/Write heads

There are two read/write heads for each side of each disc; each head covers 100 tracks making a total of twenty-four heads per transport. All heads of a transport move in unison in response to a computer instruction. Traverse time from one band to another is at a fixed rate of 75 milli-seconds. Once positioned, average access to a block takes 12.5 milli-seconds.

Transfer rate

Data are transferred at 66,000 characters a second.

SPECIFICATION

Disc capacity 4.03 million characters

Access time

Traverse 75 milli-seconds

Latency 12.5 milli-seconds

87.5 average

Transfer rate 66,000 characters a second

PHYSICAL CHARACTERISTICS

Cartridge Size 16½" x 16½" x 5"

Weight 12 pounds

Drive and head unit

Height 40 inches

Width 28 inches

Depth 33 inches

Weight 500 pounds

This specification is subject to modification

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