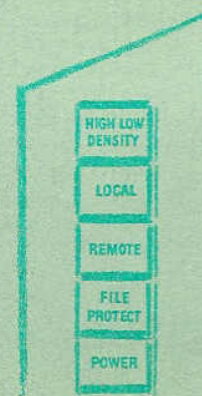
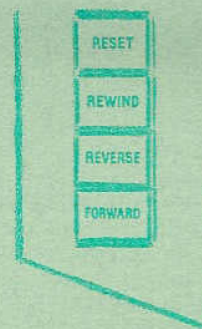
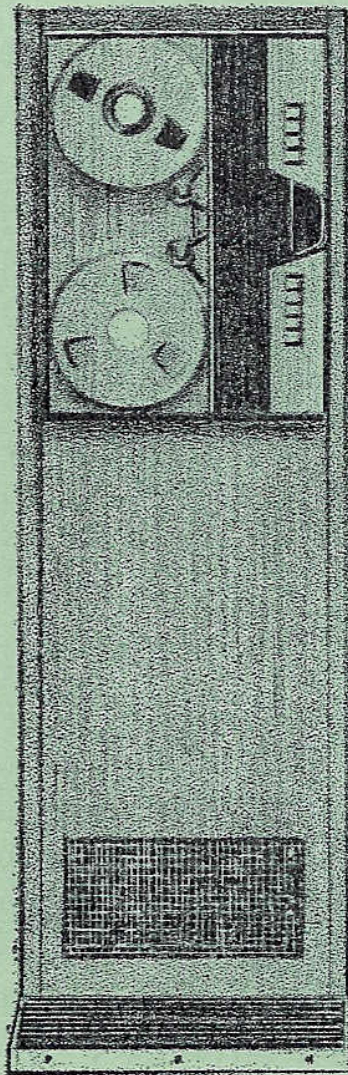


SPECIFICATION

GIER
ELECTRONICS

HARDWARE



MAGNETIC TAPE STATION

The Magnetic Tape Station, which is used with the GIER Computer for storage and manipulation of data, is connected to the Central Processor by means of the Buffer Store (see Specification), the data channels in the Buffer Store enabling connection of up to four tape stations. Aside from this, the Magnetic Tape Station is an integral part of the RC 3000 Converter for off-line data conversion from selected input device to selected output device (see Specification).



In the Magnetic Tape Station a single servo-driven capstan and a low-friction tape path are used for tape drive. No pinch rollers are used, and therefore there is no need for mechanical adjustments. The tape is held in contact with the capstan at all times by an even, low tension that is derived from vacuum buffer chambers, reducing tape wear and giving uniform, closely controlled performance.

The Magnetic Tape Station incorporates microprogrammed searching for and sensing of load-point and end-of-file marks. The combined read/write head permits read-after-write checking for parity and continuity. Writing on a reel of tape can be prevented by removing the plastic write-enable ring on the back of the reel. Greater recording reliability is assured by built-in tape cleaners.

The magnetic tape used has seven tracks, is one-half inch wide, and is internationally compatible. Tape length is 800 meters (2450 feet), which corresponds to 5.8 or 16.3 million characters in low or high density. Block length is variable (see Magnetic Tape Utilization table on separate Specification).

CHARACTERISTICS

Size: width 57.2 cm, depth 57.0 cm, height 179.9 cm

Weight: 166 kg

Tape Speed: 36 inches/sec

Recording Density

200 char/inch (low density) and 556 char/inch (high density)
800 char/inch to be made available

Transfer Times:

7200 char/sec at 200 char/inch
20000 char/sec at 556 char/inch
28800 char/sec at 800 char/inch

Tape Length: 800 m (2450 feet) equivalent to
5.8 million characters at 200 char/inch
16.3 million characters at 556 char/inch

Interblock Gap: 3/4 inch

Rewind Speed: 180 inches/sec

800 m can be rewound in about 3 minutes.
During rewinding the tape is not removed from the vacuum chambers.

Start Times

from start of tape until reading begins: 12 ms
from start of tape until writing begins: 14 ms

Power: 50-60 Hz; 220 V and 3 x 220 V
maximum power: 731 kcal/h (850 W)
maximum line current: 4 A at 220 V
fuses in mains connection: 6 A

Environment

cooling air: 300 m³/h from ambient
air temperature: 16-32° C
relative humidity: 40-70 %

A/S REGNECENTRALEN
FALKONERALLE 1
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A/S SCANIPS
SORGENFRIGATE 11
OSLO · NORWAY

ING. UGO DE LORENZO & C.
VIA BELLARMINO 29
MILAN · ITALY

GIER ELECTRONICS GmbH
SCHILLERSTRASSE 33
3000 HANNOVER · GERMANY