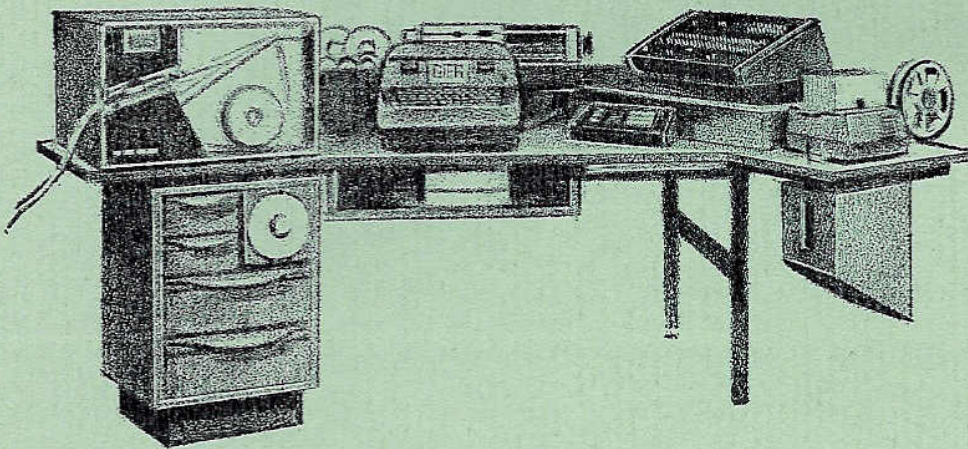


SPECIFICATION

GIER
ELECTRONICS

HARDWARE



GIER CONSOLE

The desk-like Console, from which the GIER Computer can be operated by a single person, contains the Display and Auxiliary Display Panels, the Monitor Typewriter, the Paper Tape Punch, and the Paper Tape Reader (the last two items of equipment described in separate Specifications).

The Display Panel, which is provided with certain start and stop buttons, shows the contents of the various registers, indicates error conditions, and is used to operate the Computer manually.

The Auxiliary Display Panel contains the so-called HP button, a special interrupt control used to call the Administrator of the HELP System (see Specification), which includes an input program with symbolic addressing and a set of utility programs. When one presses the HP button, the program in progress is interrupted, whereupon the contents of the immediate access store and all relevant registers are transferred to secondary storage so that the situation before the interrupt can be restored later.

The on-line Monitor Typewriter is an electric typewriter used for input and output of limited quantities of data. Communication between the operator and HELP, for instance, is normally accomplished using the Monitor Typewriter. Input/output occurs at the rate of 8-12 char/sec.



In addition, the off-line Perforator Typewriter, an electric typewriter equipped with an ALGOL keyboard, is available for producing typewritten documents and punched paper tapes for the input of programs and data to the Computer. As one types a program in GIER ALGOL for example, the information and data can be punched on 8-track paper tape at the same time. Since the Perforator Typewriter also reads paper tapes, copying of both documents and tapes is possible. Operation occurs at 8-12 char/sec.

CHARACTERISTICS

Size: width 230.0 cm, depth 111.0 cm, height 96.5 cm

Weight: 136 kg

Monitor Typewriter Speed: 8-12 char/sec (on-line)

Power: supplied from the Central Processor

Environment

cooling air: 120 m³/h from ambient

air temperature: 15-30° C

relative humidity: 40-70 %

These characteristics include the Paper Tape Reader, which is mounted on the Console.

SHIPPING SIZES AND WEIGHTS

The following contains information about the size and weight of certain items of equipment when packed for shipment. Weight indicates the gross weight, i.e. the unit plus packaging, and Size the external measurements of the packaging.

Console (without set of drawers)

Size:

width 230.0 cm, depth 108.0 cm, height 76.0 cm

Weight: 69 kg

Set of Drawers (for Console)

Size:

width 40.0 cm, depth 45.3 cm, height 59.0 cm

Weight: 20 kg

Display and Auxiliary Display Panels (in box)

Size:

width 72.0 cm, depth 59.5 cm, height 40.5 cm

Weight: 45 kg

Monitor Typewriter (in box)

Size:

width 86.0 cm, depth 74.5 cm, height 51.5 cm

Weight: 61 kg

Paper Tape Punch (in box)

Size:

width 73.0 cm, depth 35.0 cm, height 36.5 cm

Weight: 31 kg

Receptacle for Chads (for Punch)

Size:

width 20.9 cm, depth 25.0 cm, height 32.2 cm

Weight: 2.3 kg

Paper Tape Reader (in box)

Size:

width 80.0 cm, depth 55.0 cm, height 39.0 cm

Weight: 49 kg

Central Processor (on rack)

Size:

width 145.0 cm, depth 193.0 cm, height 70.0 cm

Weight: 298 kg

drum, metal back-plates, and micro-programming circuitry not included

Back-Plates (for Central Processor, five in box)

Size:

width 55.0 cm, depth 182.0 cm, height 17.5 cm

Weight: 66 kg

Printed Circuit Cards (three boxes)

Size:

width 62.0 cm, depth 53.0 cm, height 44.5 cm

Weight: 35 kg - 38 kg - 40 kg

maximum of 150 cards per box

Microprogramming Circuitry (in box)

Size:

width 48.0 cm, depth 18.5 cm, height 18.0 cm

Weight: 46 kg

Magnetic Drum (in box)

Size:

width 70.0 cm, depth 80.0 cm, height 83.0 cm

Weight: 92 kg

Line Printer (on rack in box)

Size:

width 150.0 cm, depth 193.0 cm, height 70.0 cm

Weight: 493 kg

Shipping information for other items of equipment will be provided in accordance with individual requirements.

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