MONROBOT XI

6 P 2 G 8 6 A
5 ALPHA 7
3 D 9 E 2 5 4
NUMERIC
4 N 37 H 2 5
69 M O 5 2 0

THE ONLY GENERAL-PURPOSE COMPUTER IN A NEW PRICE RANGE

from now on

you will judge electronic computers by THIS ONE

Monrobot XI is the world's first truly low-cost general-purpose electronic business computer capable of unattended operation. It is priced well within the reach of any average-size business, yet it has the basic abilities of equipment costing many times as much.

Monrobot XI offers complete flexibility. Input-output components can be plugged in or out and can be added depending on the job to be done. Despite the computer's small size, it actually does the work of several machines.

Because the machine operates automatically, human decisions are minimized; only instructions and variable data are handled by the operator.

Compatible with any procedure already in use, Monrobot XI will interpret any code, whether number or letter — from tape, card, wire or keyboard. It can be programmed for either binary or decimal calculation. Output is in the form of printed copy as well as punched tape or card.

Capable of fully processing alphabetic data, Monrobot XI monitors all input and output, verifies parity validity and checks for proper field size and format; it automatically analyzes data, instructions and control codes. Input and output data may be swiftly edited to accommodate the requirements of other equipment. Output devices are controlled independently and each can accommodate documents of different size and format.

Monrobot XI is designed for general purpose use . . . from the processing of scientific data to loan accounting, invoicing and cost analysis. It performs 5,000 additions or 2,000 multiplications per minute. By programming, it carries totals from previous entries and automatically up-dates them. It breaks down and distributes input data into desired categories.

Reads Alphabetic
and Numerical Data

Decides Automatically
What to Do with Data

Processes Data Automatically
in One Pass

Records Results on
One or More Forms

Prepares By-Product Tapes
in any Coded Language

Monitors all Data
Continuously

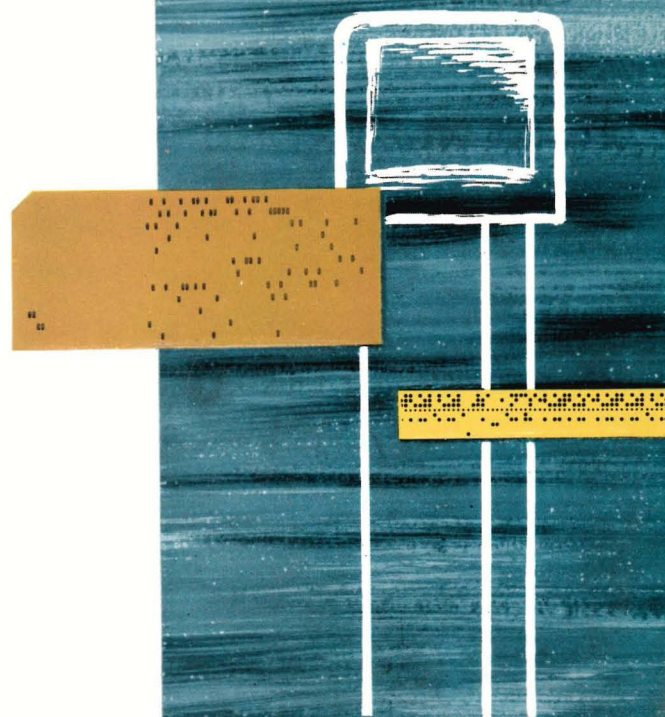Stores Data on
Monroe Magnetic Cards
for reuse

Monrobot XI will do a complete data processing job. It will merge old and new data, and print varied accounting records while simultaneously distributing amounts and updating balances. At the end of the day it will edit and print final control totals of all data processed in any format desired. Users of extensive electronic systems can use the Monrobot XI profitably in branch office operations or for data conversion, editing and proof. Once Monrobot XI has been programmed for one or more specific functions, any typist can be assigned as operator with just the brief training that is given in your office. For many applications, the machine is capable of operating unattended.

Because the computer is a versatile machine that will understand any language, it can be programmed for today's work and changed as departmental data processing procedures are made more automatic. Several different input devices can be plugged into the computer; typewriters can be connected as input units, output units, or both.

From the standpoint of performance and reliability, the cost of the Monrobot XI is an investment in your business that will quickly return your money and continue to pay you dividends. It makes possible one-step processing of business transactions at electronic speed. Transistorized circuits guard against machine downtime; should the power fail or the machine be mishandled, built-in safety devices prevent data from being lost.

With the Monrobot XI, small businesses can now step up to electronic data processing. Despite its unusual versatility and speed, the computer is standard desk size, weighs only three hundred pounds, and is available at a small fraction of the cost of equipment formerly available to do the same work. Monroe proudly invites you to see the Monrobot XI — a triumph of modern electronics.

GENERAL-PURPOSE   FLEXIBLE   SOLID-STATE   COMPACT   ALPHA-NUMERIC   COMPATIBLE   ECONOMICAL

MONROBOT XI

the general-purpose electronic computer for business, science and government

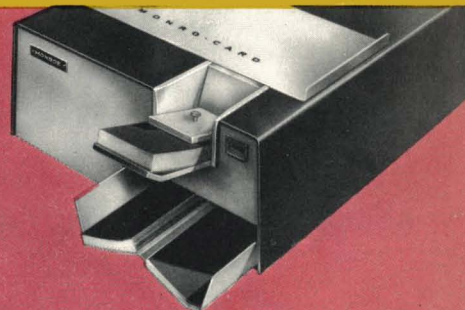**Monrobot XI can be plugged into any standard wall socket, air conditioning is not required, and the machine is unaffected by large variations of line voltage or room temperature.**
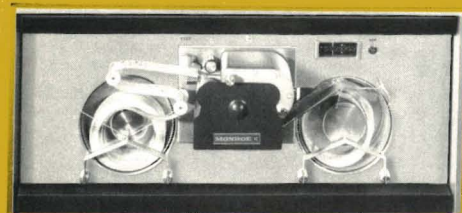
PUNCHED TAPE INPUT-OUTPUT
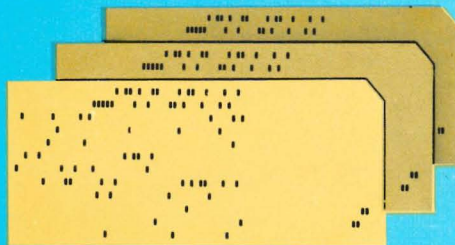
PUNCHED CARD INPUT-OUTPUT

MAGNETIC CARD INPUT-OUTPUT

SOLID-STATE DEPENDABILITY

The "brain" of the Monrobot computer is a solid state logic unit which is controlled by as many as 4,000 instructions stored on a magnetic drum. Instructions such as add, subtract and compare are located and executed at an average rate of 12 milliseconds each . . . including access time. The logic unit simultaneously translates, verifies and edits alpha-numeric data from independent input devices. It requires no carriage or plug-board programming, plugboard format control, and tape language-translating equipment. It eliminates the myriad of control buttons, selection keys, interlock mechanisms and checking devices associated with such machines.

INPUT FLEXIBILITY

Four separate input devices and four separate output devices can be plugged into the computer and operated simultaneously. On input, one tape or magnetic card device can enter old data, a second tape or punched card reader can enter new data. The typewriter or numerical keyboard can be used to enter exceptions and to make changes. This typewriter can also be used to make alpha-numeric data and program tapes.

OUTPUT FLEXIBILITY

On output, one typewriter can be used to prepare invoices, checks, bills of lading, or any other record required no matter how complex in format or computational activity. A second typewriter can be used to post all, or any part of, the alphabetic and numeric transaction. For example, shipping instructions or order information can be printed as an automatic by-product of the invoicing operation. As the original transaction is processed, the Monrobot will automatically prepare a by-product punched tape or punched card which can be subsequently processed by the Monrobot to produce other accounting reports without going back to original media. In payroll, a complete employee payroll record can be maintained on one Monro-Card. Because the Monro-Card is magnetic and will hold 10 to 15 times more data than a standard tab card, it can be updated each week as the payroll is processed. In invoicing, a punched tape or card can be created for inventory control and sales analysis. In cash disbursements, the punched tape or card output can be used for cost distribution.

STORED PROGRAM SIMPLICITY

The 18,000 digit storage drum allows retention of more totals, more constants, and more program steps than any other low-cost electronic accounting or billing machine. Several programs can be stored simultaneously, and these may be selected as desired by pressing a single button. As an example, by selecting a new stored program, the operator can automatically change the machine function from billing to accounts payable. Any problem, whether scientific or business that can be programmed for a large computer, can be programmed for the Monrobot XI.

Synchro-Monroe Punched Tape Adding Machine for new data input in 5, 6, 7 or 8 channel code.

NUMERICAL INPUT
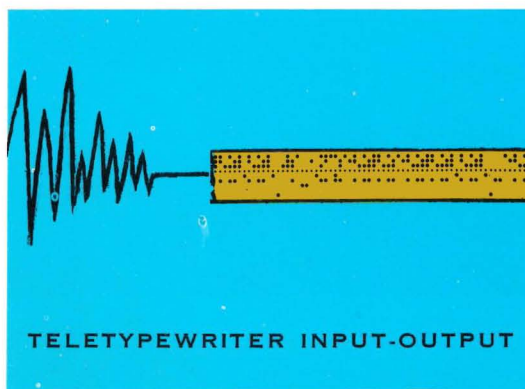
TELETYPEWRITER INPUT-OUTPUT

OPERATOR SIMPLICITY

Any girl who can type can operate or attend the Monrobot XI. Because the machine makes its own decisions, accuracy is assured, operator error is eliminated, and complete accounting routines can be executed by one-key depression. Unlike other low-cost machines, Monrobot XI reads and translates data, computes and prints out answers, then updates stored data for future use. It is unnecessary to make a second pass of an input tape or to use translating equipment since the machine processes all data in one operation.

ALPHA-NUMERIC FLEXIBILITY

Monrobot XI will handle any number base — hours, fractions, dozens, pounds, yards, gross; it will convert francs, pounds, shillings, pence or other denomination to the equivalent in American currency. Not only does the machine understand varied alphabetic and numerical input data, but it will output in a variety of ways depending on the requirements of the job being done. Dates can be written in numerical or alphabetic form, departments spelled out or coded by number, amounts printed as decimal figures or completely written out in alphabetic letters. In short, data can be stored in memory in one form and written out on documents, tape or card in another.

NUMERICAL KEYBOARD INPUT

A simple 16-key input keyboard is available with Monrobot XI and can be plugged into the computer as easily as any of the other devices to provide fast numeric entry. Amounts can be entered through the numerical keyboard, accepted by the computer, and immediately printed out in correct decimal arrangement before the computation begins. The operator can clear erroneous entries before they are accepted or printed by the machine.

TAILORED TO YOUR BUSINESS

To provide greater data processing ability, additional input-output devices have been plugged into the computer that is illustrated. Still other output devices can be added in your office without affecting computer speed, basic ability or programming flexibility. Teletypewriter and card punch machines can be connected directly for input and output. Monrobot XI can be tailored to your individual procedures.
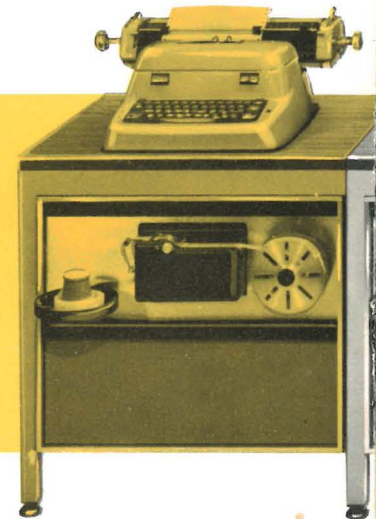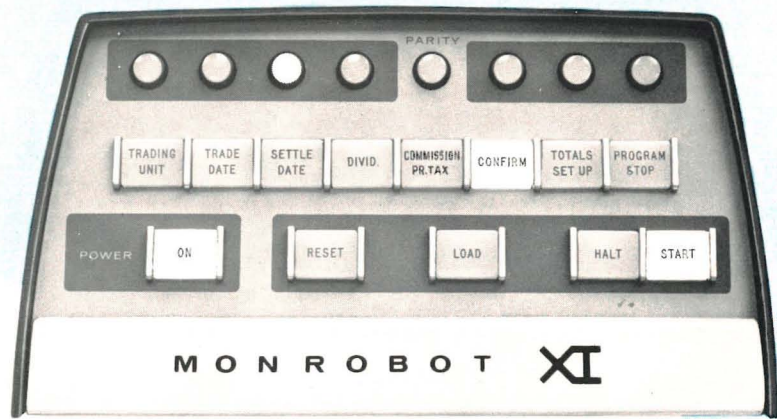
While Monrobot XI operates unattended, it may be desirable to interrupt an automatic operation to enter last minute changes. The control panel of the computer permits the operator to stop the machine, make additions or corrections, then return to fully automatic data processing. When input data or operator decision is requested by the machine, it will automatically stop and a control light will signal the operator. Monrobot XI checks its own computations continuously and when fed information not consistent with that required, will stop and signal for confirmation.

**Monrobot XI is capable of unattended operation**

THE MONROBOT XI
PAYS FOR ITSELF

Because of its low cost and the savings it makes possible, the Monrobot XI is an unusually sound business investment. It can be purchased outright, rented, or paid for over a number of years under Monroe's lease plan.

SERVICE EVERYWHERE

Monroe maintains more than 375 sales and service branch offices in the United States and Canada. Nowhere is there a Monroe product too distant from the skilled hands of the Service Representative. When the original guarantee has expired, you can protect your equipment with a Monroe Maintenance Guarantee contract. For an established fee each year, you are assured of the hard cash savings that go with preventive maintenance, the advantage of quiet offices and maximum work output, and the superlative service organization that stands behind the Monroe contract.
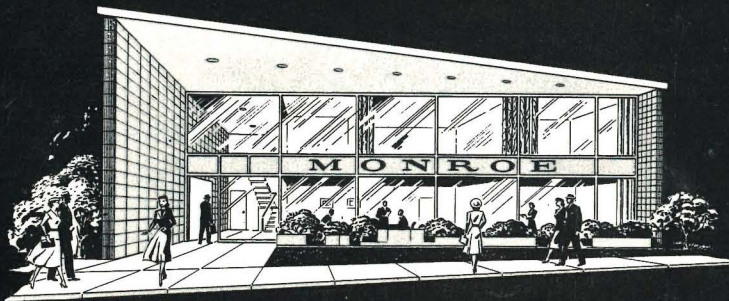
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A DIVISION OF THE BUSINESS MACHINES
GROUP OF LITTON INDUSTRIES

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