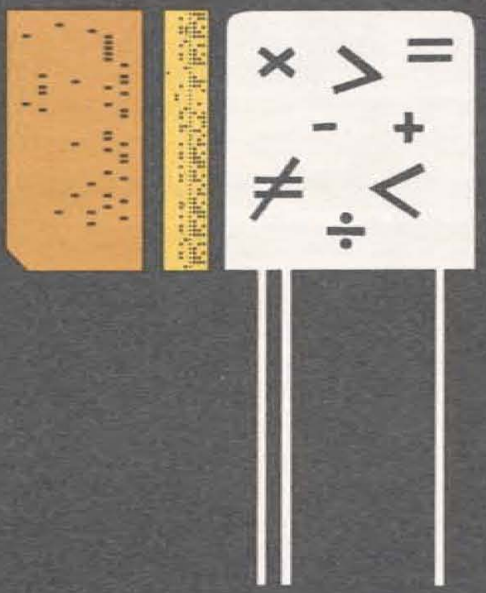
RECEIVED
SEP
L. Wheaton Smith

MONROBOT MARK XI



6P2G86A
5ALPHA7
3D9E254
NUMERIC
4N37H25
69MO520

THE ONLY GENERAL-PURPOSE COMPUTER IN A NEW PRICE RANGE

from now on

you will judge electronic computers by THIS ONE

Monrobot Mark 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

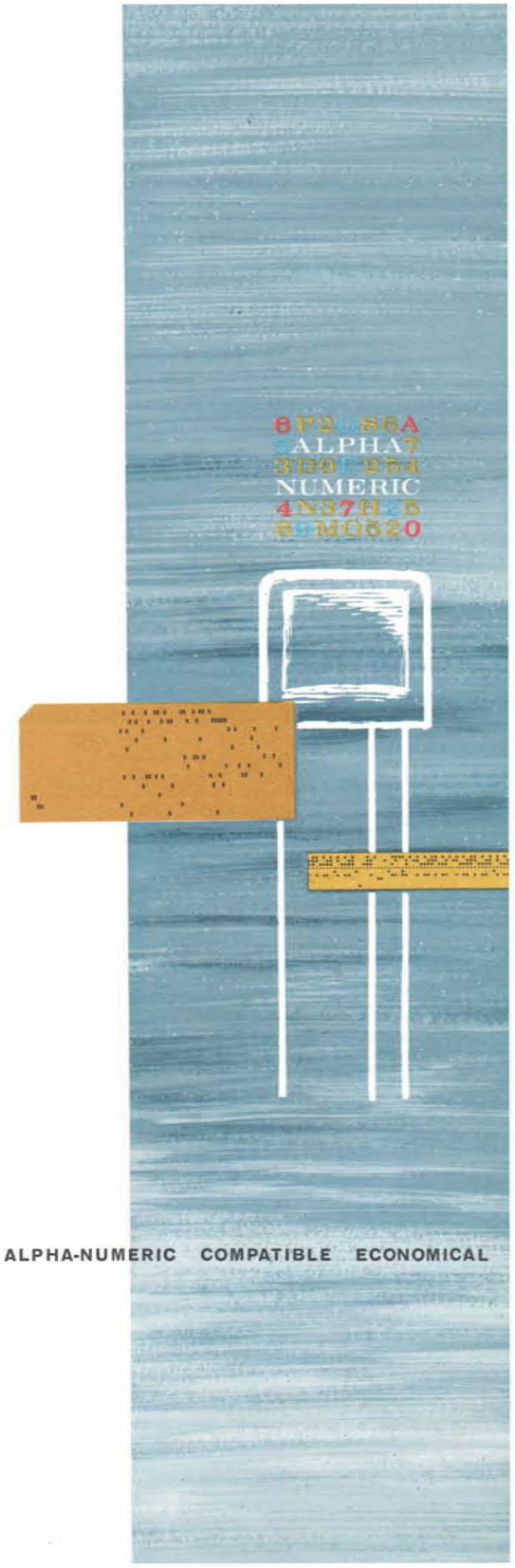
Monitors all Data
Continuously

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 Mark XI — a triumph of modern electronics.



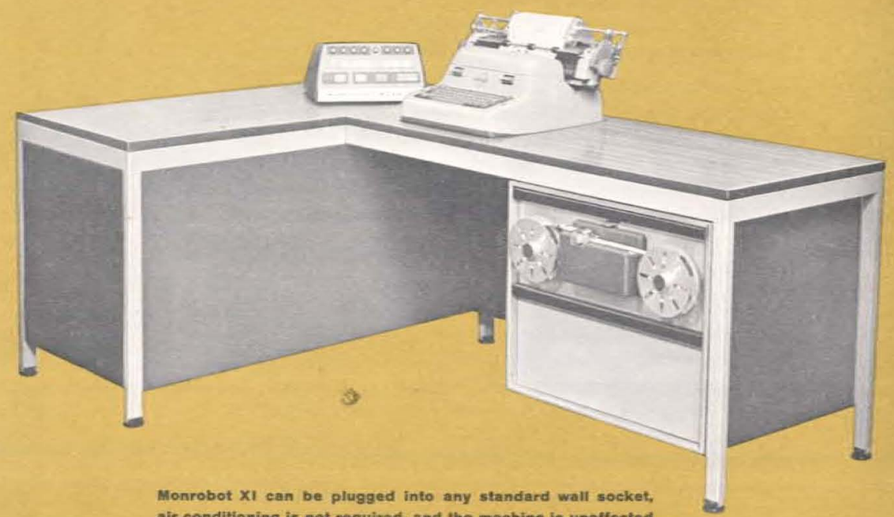
GENERAL-PURPOSE FLEXIBLE SOLID-STATE COMPACT ALPHA-NUMERIC COMPATIBLE ECONOMICAL

CAPITAL EQUIPMENT DEPRECIATION PAYROLL PRODUCTION SCHEDULING COST ANALYSIS LABOR DISTRIBUTION LINEAR PROGRAMMING INVOICING ACCOUNTS PAYABLE SALES ANALYSIS PREMIUM BILLING DATA REDUCTION MACHINE LOADING FREIGHT REVENUE ACCOUNTING INVENTORY CONTROL POLICY RATING AND PREPARATION TAX ACCOUNTING QUALITY CONTROL PASSENGER REVENUE ACCOUNTING LOAN ACCOUNTING LOCAL, STATE AND FEDERAL REVENUE ACCOUNTING SCIENTIFIC ENGINEERING ANALYSIS BROKERS' STOCK RECORDS MATRIX AND VECTOR OPERATIONS ANALYSIS CONFIRMATION PREPARATION AND PORTFOLIO ANALYSIS INFORMATION

MONROBOT MARK XI

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

PREMIUM BILLING DATA REDUCTION MACHINE LOADING FREIGHT REVENUE ACCOUNTING INVENTORY CONTROL POLICY RATING AND PREPARATION TAX ACCOUNTING QUALITY CONTROL PASSENGER REVENUE ACCOUNTING LOAN ACCOUNTING LOCAL, STATE AND FEDERAL REVENUE ACCOUNTING SCIENTIFIC ENGINEERING ANALYSIS BROKERS STOCK RECORDS MATRIX AND VECTOR OPERATIONS ANALYSIS CONFIRMATION PREPARATION AND PORTFOLIO ANALYSIS INFORMATION RETRIEVAL DIFFUSION EQUATIONS THERMODYNAMICS DIFFERENTIAL EQUATIONS PREMIUM ACCOUNTING MONTE CARLO TECHNIQUES HEAT FLOW ANALYSIS CRYSTALLOGRAPHIC ANALYSIS PROBABILITY ANALYSIS OPERATIONS RESEARCH SCHEDULING TRUST ACCOUNTING LEAST SQUARES COMPUTATIONS BILLING REVENUE CAPITAL EQUIPMENT DEPRECIATION PAYROLL PRODUCTION SCHEDULING COST ANALYSIS LABOR DISTRIBUTION LINEAR PROGRAMMING INVOICING ACCOUNTS PAYABLE SALES ANALYSIS RETRIEVAL DIFFUSION EQUATIONS THERMODYNAMICS DIFFERENTIAL EQUATIONS PREMIUM ACCOUNTING MONTE CARLO TECHNIQUES HEAT FLOW ANALYSIS CRYSTALLOGRAPHIC ANALYSIS PROBABILITY ANALYSIS OPERATIONS RESEARCH SCHEDULING TRUST ACCOUNTING LEAST SQUARES COMPUTATIONS BILLING REVENUE



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.

SOLID-STATE DEPENDABILITY

The "brain" of the Monrobot computer is a solid state logic unit which is controlled by as many as 2,000 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 plugboard 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

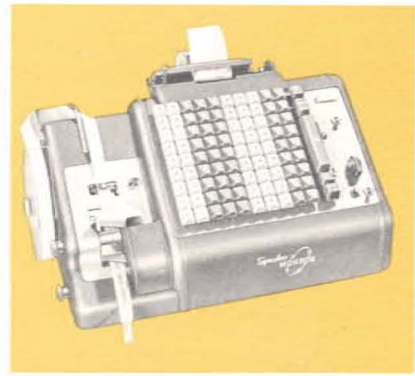
Any three separate input devices and three separate output devices can be plugged into the computer and operated simultaneously. On input, one tape device can enter old data, a second can enter new data. The third device, either a typewriter or numerical keyboard, can be used to enter exceptions and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

OUTPUT FLEXIBILITY

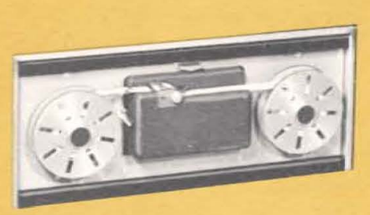
On output, one typewriter can be used to prepare invoices, checks, bills of lading, or any other record required no matter how complex in format or computational activity. A second typewriter can be used to post all, or any part of, the alphabetic and numerical transactions. For example, shipping instructions or order information can be printed as an automatic by-product of the invoicing operation. The third output device is often used to record the transaction history in either punched tape or punched card form. If Monrobot XI is used for payroll, an earnings record tape is automatically updated each week as the current payroll is processed. In invoicing, the third output device can prepare a punched tape for inventory control and sales analysis. In cash disbursements, the punched tape output can be used for cost distribution.

STORED PROGRAM SIMPLICITY

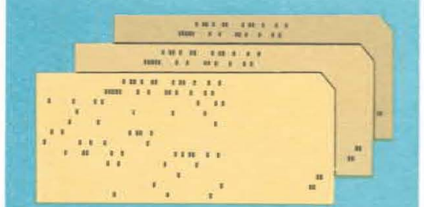
The nine-thousand-digit storage drum allows retention of more totals, more constants, and more program steps than any other low-cost electronic accounting or billing machine. Several programs can be stored simultaneously, and these may be selected as desired by pressing a single key. As an example, by 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.



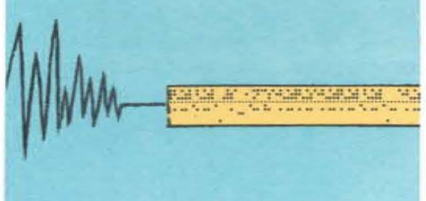
PUNCHED TAPE INPUT-OUTPUT



PUNCHED CARD INPUT-OUTPUT

TYPEWRITER INPUT-OUTPUT

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

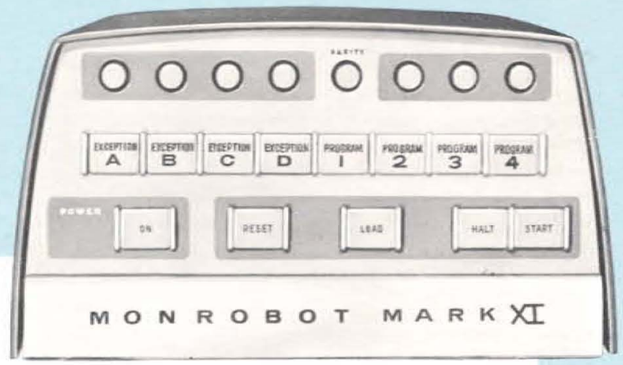
Monrobot XI will handle any number base — hours, fractions, dozens, pounds, yards, gross; it will convert francs, pounds, shillings, pence or other denomination to the equivalent in American currency. Not only does the machine understand varied alphabetic and numerical input data, but it will output 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.

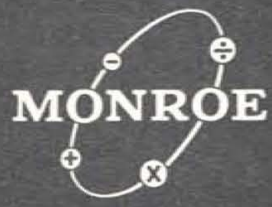
TAILORED TO YOUR BUSINESS

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 MARK 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 350 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.

MONROE CALCULATING MACHINE COMPANY, INC.
GENERAL OFFICES • ORANGE NEW JERSEY
SALES AND SERVICE THROUGHOUT THE WORLD
A DIVISION OF LITTON INDUSTRIES

THE COMPUTER MUSEUM HISTORY CENTER
1 026 2169 2

PRINTED IN U.S.A.
A-500