

The IBM machines illustrated use electronic principles. Clockwise from the top, they are: Electric Time System, with Electronic Self-regulation; Alphabetical Collator; Statistical Machine; Card-programmed Calculator, including Calculating Punch; Punched Card Sorter. For descriptive literature, write to Dept. N.

Through IBM research and development, the remarkable abilities of electron tubes have been put to work in business machines.

Electron tubes-fast, versatile, accurate-are used in the IBM Machines pictured here to calculate at extraordinary speeds, to "remember" the answers to intricate computations, to follow long series of instructions, to control the flow of electricity with amazing precision.

IBM Electronic Business Machines are cutting the time between questions and answers-helping science and industry produce more good things for more people.



International Business Machines Corporation 590 Madison Avenue • New York 22, New York



IBM's pioneering research and development in the application of the science of electronics to computing machines have added greatly to the reach and scope of man's creative activity.

Through the use of electron tubes such as the one shown above, IBM has produced machines which are hundreds of times faster than calculators based on mechanical principles. Accurate answers to scientific and business problems involving the most complicated mathematics are being obtained in minutes instead of hours, days instead of months.

Through IBM Electronic Machines, the human mind is finding new release from mathematical drudgery.

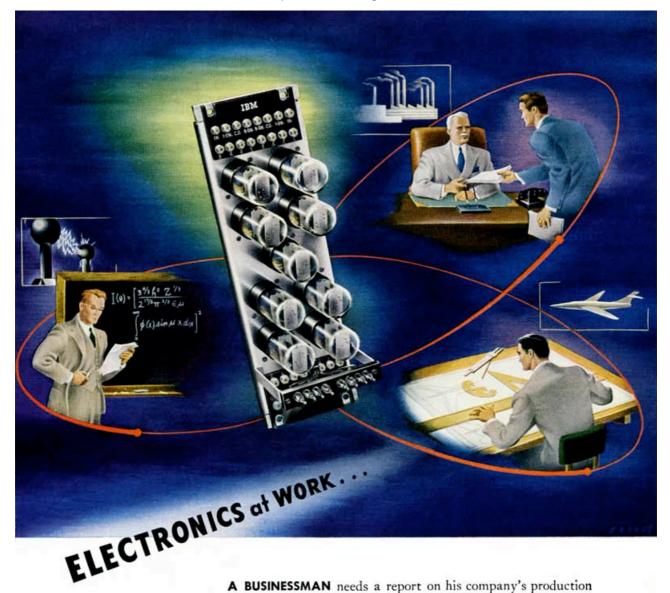


International Business Machines Corporation World Headquarters Building 590 Madison Avenue • New York 22, New York

IBM products using

electronic principles: Card-programmed Calculator

Calculating Punch Statistical Machine Alphabetical Collator Punched Card Sorter Electric Time System with Electronic Self-regulation



A BUSINESSMAN needs a report on his company's production and inventory position, and he has to have it faster than ever before.

A SCIENTIST, working in the atomic energy field, needs to know the exact effect of relativistic mass increases in the slowing down of fast electrons.

AN AIRCRAFT DESIGNER needs to determine the theoretical stresses and strains brought about by the use of new-type controls on a jet-powered, supersonic plane.

Today, these intricate requirements and countless others are being met at amazingly high speed through the use of IBM Electronic Business Machines.

IBM pioneered in the application of the science of electronics to business machines . . . machines which benefit everyone through increasing the productivity of industry and science.



International Business Machines Corporation *World Headquarters Building* 590 Madison Avenue • New York 22, New York

The device shown is the IBM Electronic Counter, basic unit of IBM Electronic Machines which compute arithmetical problems at tremendous speeds.

PIERCING THE UNKNOWN

IBM

This IBM electronic tube assembly cuts through the unknown like a rocket through the stratosphere.

It probes the mysteries of the atom's core; predicts critical wing flutter of fast aircraft; traces paths of light through a lens system; calculates trajectories of guided missiles; plots the course of planets for the navigator.

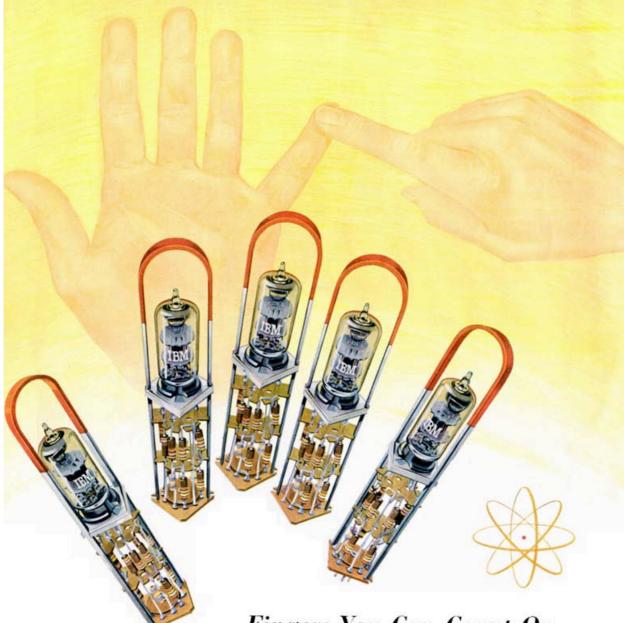
It calculates payrolls, inventories, costs; points out savings of time and money.

These compact, pluggable units are the heart of IBM Electronic Calculators.

INTERNATIONAL BUSINESS MACHINES



IBM Electronic Business Machines are vital defense weapons in the hands of our nation's industrial engineers and scientists.



Fingers You Can Count On



These are electronic "fingers". . . the compact and rugged pluggable units in IBM Electronic Business Machines. Their high-speed counting capacity and amazing accuracy meet the most exacting accounting and calculating requirements of business, industry, and engineering.

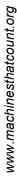
These "fingers". . . backed by IBM service, research, and development . . . are helping to fulfill production demands with economy of time, materials, and costs.



Electronic Business Machines

INTERNATIONAL BUSINESS MACHINES

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decimal digits Expressed in

Magnetic drums—any of 81, 920 digits* can be stored or recalled in an average of 40/1,000 of a second. (2) Cathode ray tubes—any of 0.230 digits* an be stored or recalled in 12/1,000,000 of a second.
Magnetic tapes—any of 2,000,000 digits* can be stored on one tape or re-called from it at the rate of 12, 900 ascond.

3 KINDS OF "MEMORY"

IBM INTERNATIONAL BUSINESS MACHINES 590 Madison Avenue, New York 22, N. Y.

engineering, research, and scientific problems.

The new IBM Electronic Data Processing Machines are the forerunners of data processing machines for business, now under intensive development in IBM laboratories.

vast power and versatility. For peacetime uses, it will be applied to a wide variety of

> Industry...Defense For Science 🤇

Processing IBM Electronic Machines Data

16,666 times a second . . . that can multiply and divide 2,192 times a second . . . and can recall factors from storage, or "memory," in

as little as 12 millionths of a second.

Here is a computer that can add and subtract

This momentous advance in electronic com-puting gives defense industries, for which this

computer was especially designed, a tool of

The New

RH

HE

and speeds of cathode ray tubes, magnetic drums, and magnetic tapes with the tremen-dous computing speeds of electronic tubes, in these machines the most flexible and most

productive calculating unit ever marketed.

IBM engineers and scientists have produced

Combining the great storage capacities

150 Extra Engineers

An IBM Electronic Calculator speeds through thousands of intricate computations so quickly that on many complex problems it's just like having 150 EXTRA Engineers.

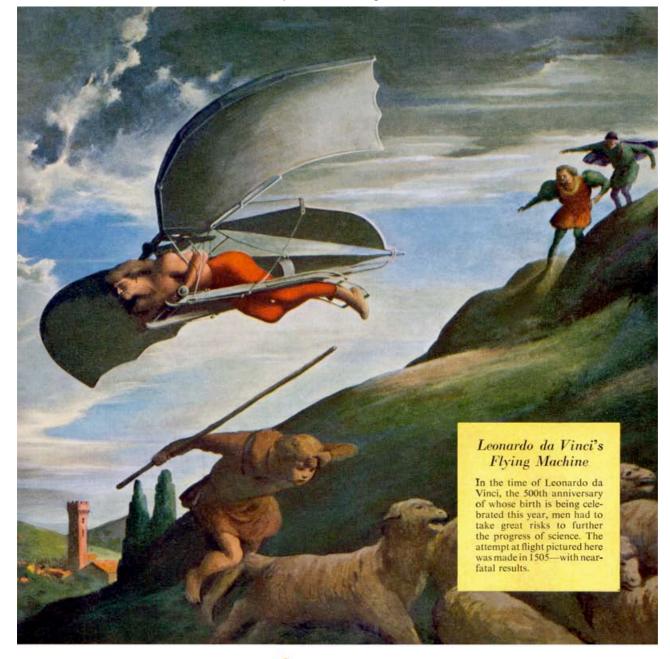
No longer must valuable engineering personnel . . . now in critical shortage . . . spend priceless creative time at routine repetitive figuring.

Thousands of IBM Electronic Business Machines ... vital to our nation's defense ... are at work for science, industry, and the armed forces, in laboratories, factories, and offices, helping to meet urgent demands for greater production.

IBN

INTERNATIONAL BUSINESS MACHINES





Today ... Experiment Without Peril



Type 604 Electronic Calculator

The risks and costs of exploring industrial, business, and scientific theories can be cut to the minimum by using IBM Electronic Business Machines.

With the amazingly swift calculating power of these machines at their disposal, businessmen and inventors of today can check their theories, pre-test the products of their vision, and virtually predict actual performance.



Electronic Business Machines

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Croesus' cavalry stampeding at the sight of Persian camels

Today ... Facts Are What Count



The recent great strides in military science, pure science, commerce, and industry have resulted from modern man's ability to determine the facts and act accordingly.

Tremendous advances have been made in the past few years in fact-finding machines. Through electronics, great masses of data that would have taken a lifetime to process can now be handled in a few days. Ordinary volumes of work can be done in minutes.

By making "mathematical models" of specific processes, products, or situations, man today can predetermine probable results, minimize risks and costs.

IBM

World's Leading Producer of Electronic Accounting Machines

INTERNATIONAL BUSINESS MACHINES, 590 Madison Avenue, New York 22, N. Y.

You are looking inside the world's most remarkable business machine . . . the IBM Electronic Calculator. It solves accounting and research problems faster than any other commercial calculator in general use.

GETTING YOUR ANSWERS

at electronic speed!

IBM's vast engineering know-how is helping business, industry and the Armed Forces get the answers...fast. Through its leadership in applying electronic principles to calculators and other types of punched card business machines, IBM has given greater speed, accuracy and economy to the nation's vital processes of calculating and accounting.

Already thousands of IBM Electronic Business Machines are in everyday use. We are continuing to manufacture them in quantity...as fast as quality production will permit.



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