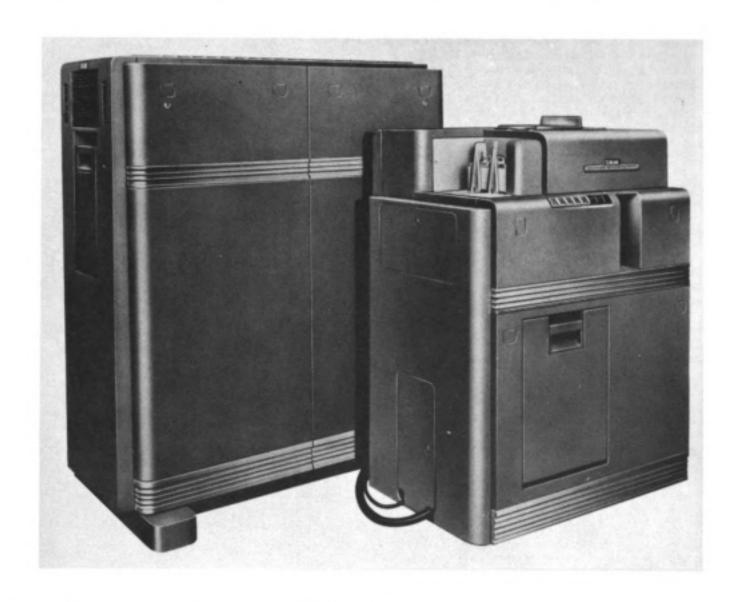
Type 604 Electronic Data Processing Machine

### International Business Machines Corporation



Picture by International Business Machines Corporation

### APPLICATIONS

Manufacturer Business and scientific.

Industrial Sample
Bridgeport Brass Company
Payroll, standard cost, sales price extensions;
machine is basically a multiplier.

# NUMERICAL SYSTEM

Internal number system Binary coded decimal
Decimal digits per word 3 or 5
Instructions used 9
Arithmetic system Fixed point
Instruction type One or two address code
Number range Variable

ARITHMETIC UNIT

Time
Add (exclud. stor. access)
Mult (exclud. stor. access)

Microsec 500 14,000 average Div (exclud. stor. access)
Construction
Basic pulse repetition rate
Arithmetic mode
Timing Synchronous
Operation Sequential

17,000 average Vacuum tubes 50 KC Parallel

### STORAGE

Media Words Microsec Access Electronic Tubes 9 500

## INPUT

Media Speed Card Reader-Punch 100 cards/min

### OUTPUT

Media Speed Card Reader-Punch 100 cards/min

#### CIRCUIT ELEMENTS ENTIRE SYSTEM

Tubes 1,250 Tube types 4

### CHECKING FEATURES

Checking is possible through control panel wiring.

# POWER, SPACE AND WEIGHT

Power, computer 7.59 KVA

Space, computer 73.9 cu. ft. 19.4 sq. ft.

Weight, computer 1,949 lbs.

Industrial Sample Bridgeport Brass Company Power requirement is 5.1 KW.

## PRODUCTION RECORD

Produced 2,994 Operating 2,904

Delivery time 12 months

### COST, PRICE AND RENTAL RATE

Manufacturer Approximately \$550/month and up.

Industrial Sample
Bridgeport Brass Company
Rental rate is \$660/month, including 10% tax, for basic system.

### PERSONNEL REQUIREMENTS

Industrial Sample
Bridgeport Brass Company
Three operators or technicians utilized.

### RELIABILITY AND OPERATING EXPERIENCE

Manufacturer

Average service time for all installed machines is approximately 10 hours per month.

#### INSTALLATIONS

Government Sample

U. S. Department of Commerce, Coast and Geodetic Survey, Washington 25, D. C.

Industrial Sample

Bridgeport Brass Company, Bridgeport, Connecticut Chesapeake and Potomac Telephone Company,

Baltimore, Maryland

Dow Chemical Company, Midland, Michigan General Electric Company, Schenectady, New York Bercules Powder Company, Wilmington, Delaware Manning, Maxwell and Moore Company Raybestos Company Singer Manufacturing Company Southwestern Computing Service, Tulsa, Oklahoma

### ADDITIONAL FEATURES AND REMARKS

Manufacturer

The IBM 604 Electronic Calculator is a general purpose electronic digital computing machine which is helping solve problems in science, engineering, business and government.

Reading problem data from IBM punched cards at a constant speed of 100 problems (cards) a minute, it can go through as many as 60 separate steps, such as multiplications and divisions, to obtain the solution to a single problem. Answers are recorded in the same cards which carry the problem data, or they can be punched in specially designated cards. The smaller of the two cabinets is the electrical card reading and punching unit. The larger cabinet is the all-electronic unit which includes the following sections: power, timing, arithmetic, storage and switching.

Many built-in features make this electronic calculator easy to operate and service. These include interchangeable control panels for changing from one type of operation to another, and testing devices and pluggable subassemblies which facilitate rapid maintenance and service.

These machines have been produced on the assembly line at IBM's plant in Poughkeepsie, New York, since early 1949.

Industrial Sample Southwestern Computing Service Utilized for providing contract computing service.