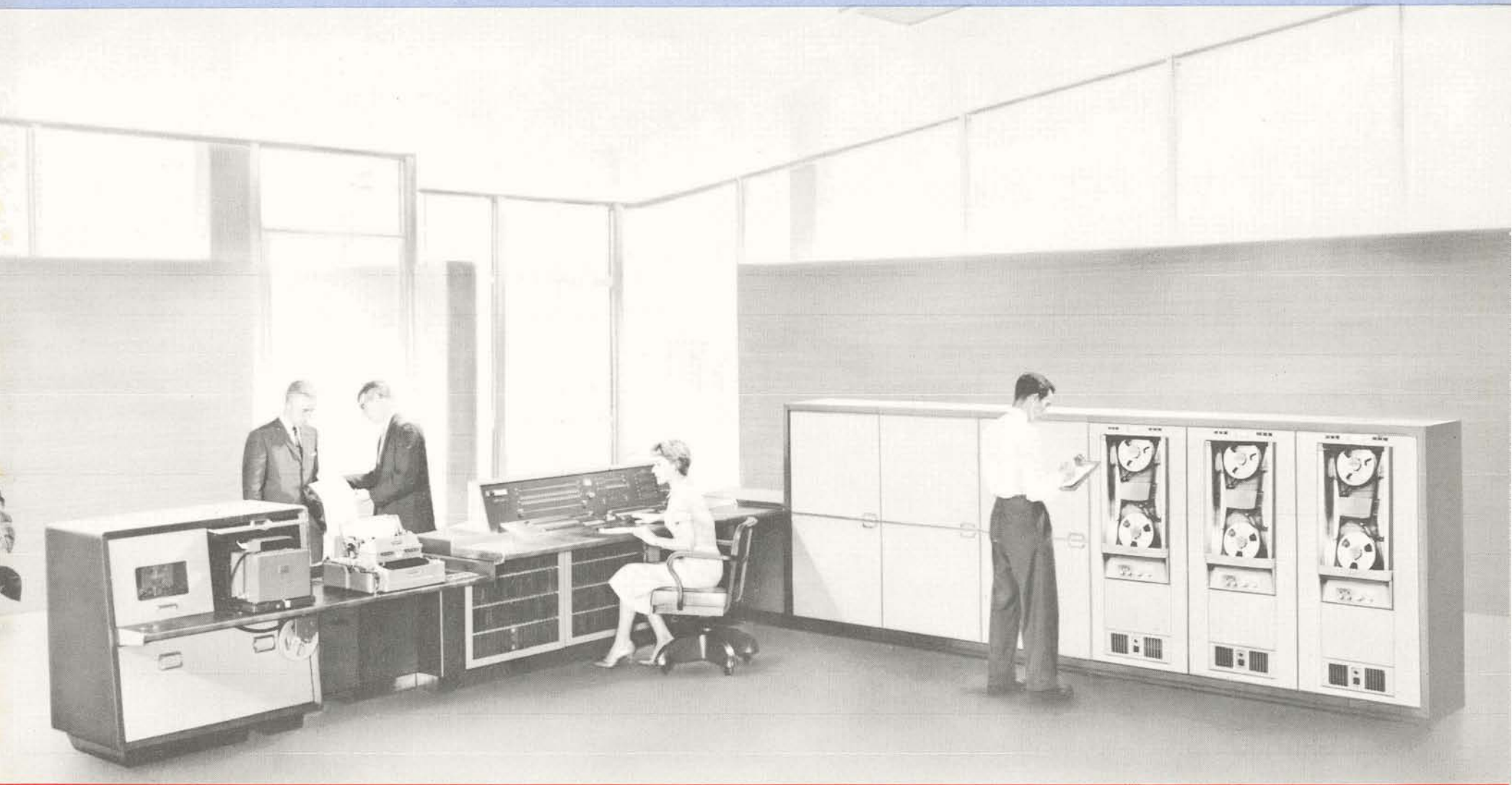


PHILCO *Transac*® S-2000

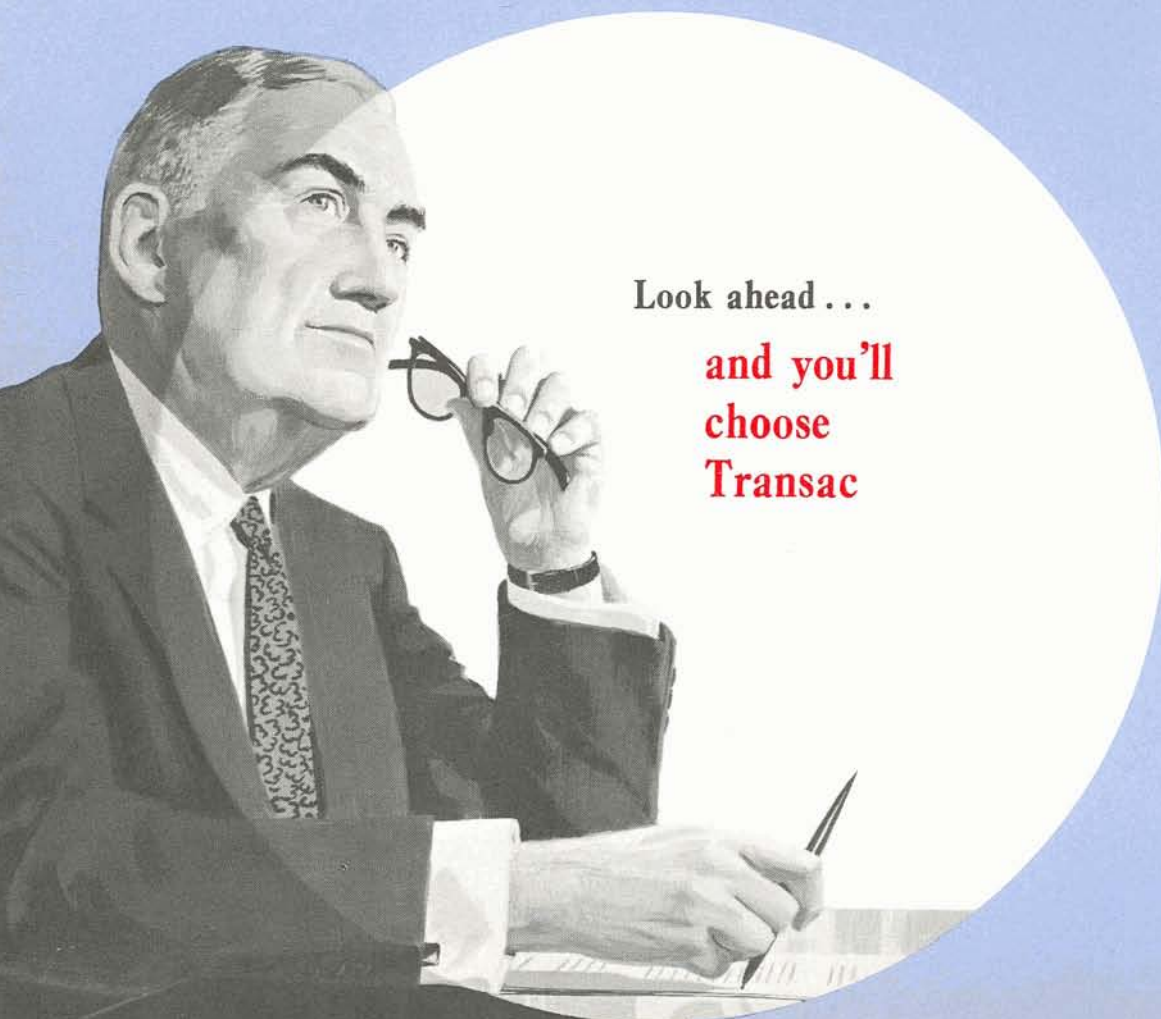


WORLD'S FASTEST ALL-TRANSISTOR DATA PROCESSING SYSTEM

**GREATER VALUE
FOR YOUR COMPUTATION
DOLLAR**

TRANSAC

When you select your computer... No other data processing system on the market can match the revolutionary Philco Transac S-2000 Computer for speed, capacity and reliability.



Look ahead...

**and you'll
choose
Transac**

Here is the world's first and only large-scale all-transistor data processing system . . . unsurpassed in capacity or performance . . . a new dimension in proven computer reliability . . . years ahead in design... a product of Philco's long and extensive experience in solid state electronics, transistor circuit design and computer logic. Transac is meeting the modern challenge for faster, smaller and more reliable large-scale data processing systems. Philco invites you to consider the many outstanding advantages of the new Transac S-2000 before you decide on any large scale data processing system.

S-2000

handles commercial, engineering, and scientific data processing *with equal facility*

Production Control

Inventory Control

Premium Billing and Accounting

Sales—Order Billing

Stock Transfer

General Accounting

Revenue Accounting

Payroll

General File Maintenance

Matrix Calculations

Data Reduction

Linear Programming

Statistical Analysis

Complex Equations

Simulation—Aircraft, Missiles,
Refineries, Steam Plants

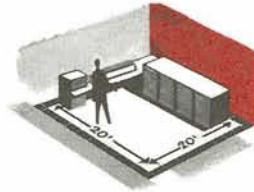
Real-Time Control and
Data Logging

Weapons Systems

TRANSAC S-2000 IS AVAILABLE NOW



Make this point-by-point comparison of the new PHILCO



System Flexibility

Modular design allows easy expansion of the system. Plug-in modules eliminate long periods of inoperability while a system is being expanded. Up to 65,536 words of core memory and 256 of each type of input/output unit can be incorporated in the system.



High Speed

The TRANSAC S-2000 system is 3 to 10 times faster than other commercially available EDP systems. Lowest computation cost is assured by high system speed—and more reserve time is available for additional applications.



System Balance

Concurrent operation of multiple high speed magnetic tape transports and an internal execution rate of more than 60,000 instructions per second provide an optimum balance to meet each user's computational requirements.



Physical Compactness

All-transistor construction and the use of printed wiring techniques plus the elimination of vacuum tubes result in a compact, large-scale data processing system one-fifth the size of conventional vacuum tube systems.

TRANSAC S-2000



Minimum Installation Requirements

TRANSAC S-2000 costs less to install than any other large scale EDP system. Savings of \$100,000 or more on site preparation can be realized with a TRANSAC S-2000 system.



Low Cost Operation

Low power requirements result in savings of up to \$500 per month. The average TRANSAC S-2000 system requires only 15 KVA.



Ease of Maintenance

The use of transistors, printed wiring, plug-in circuits and service diagnostic routines in TRANSAC S-2000 insure maximum computer performance.



Reliability

The Philco TRANSAC S-2000 system offers longer periods of uninterrupted operation than any other computing system. Transac is the only computer with proven multi-million hour transistor reliability.

In the
wonder-world
of advanced electronics,
look to the leader...
LOOK AHEAD...
and you'll choose
PHILCO

Here are some **facts and figures on the new**

Central Computer

1. Average Operations per Second (Including Memory Access)

a) Arithmetic (Fixed Point)	
Addition and Subtraction	60,000
Multiplication	26,000
Division	17,000
b) Comparisons	83,000

2. Memory Capacity

- a) Basic Core Storage Unit—4,096 words (32,768 alpha numeric characters).
- b) Expandable to 65,536 words (524,288 alpha numeric characters) in units of 4,096 words.

3. Internal Characteristics—Central Computer

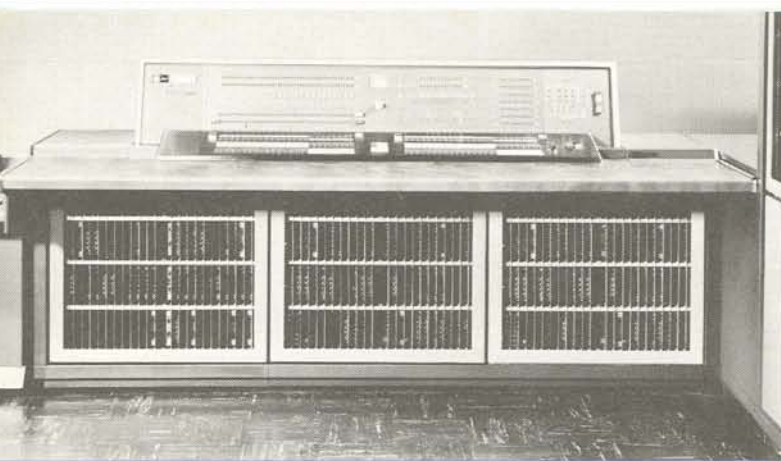
- a) Binary—parallel—asynchronous.
- b) Fixed point (floating point optional).
- c) Word length—48 binary digits.

4. Instruction Code

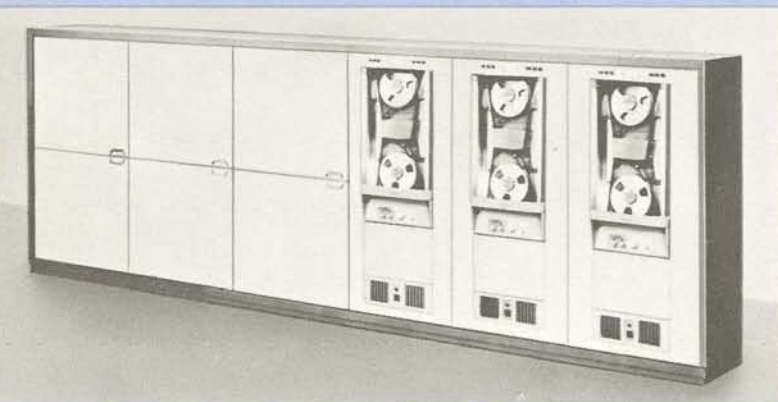
- a) Single address.
- b) Two instructions per word.
- c) 223 instructions (including 59 floating point).

5. Index Registers

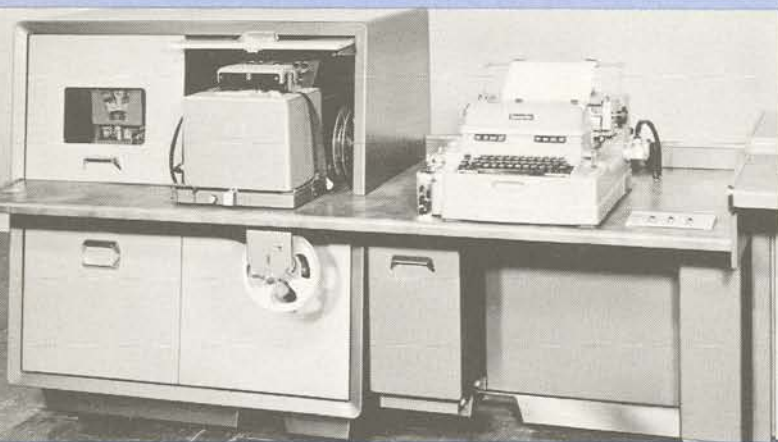
Four to sixteen in units of four.



Central Computer and Console



Transac Magnetic Tape System



Transac Paper Tape System

PHILCO TRANSAC S-2000

On-Line Input/Output

1. Magnetic Tape Transports
 - a) Reading/Writing Speed—90,000 characters per second.
 - b) Multiple tape sequencing—allows transfer rate of 360,000 characters per second.
 - c) Simultaneous Read/Write/Compute operation.
 - d) Tape Dimension—3,600' length, 1" width.
 - e) Reel Capacity—16 million alpha numeric characters.
 - f) Density—600 characters per linear inch.
 - g) Tape Speed—150 inches per second.
 - h) Tape Rewind Speed—225 inches per second.
 - i) Start/Stop Time—5 milliseconds.
 - j) Immediate Automatic Information Verification of both Reading and Writing.
 - k) One Control Unit—up to 16 tape transports.
2. Punched Card Reader
 - a) 2,000 cards per minute.
3. Card Punch
 - a) 100 cards per minute.
4. Paper Tape Reader (photo electric)
 - a) 5, 6, 7 or 8 channel tape.
 - b) 1,000 characters per second.
5. Paper Tape Punch
 - a) 5, 6, 7 or 8 channel tape.
 - b) 60 characters per second (240 optional).
6. Magnetic Drum
 - a) Capacity—32,768 words (262,144 alpha numeric characters).
 - b) Up to 32 drums allowed.
7. Electric Typewriter
 - a) 10 characters per second.

Off-Line Peripheral Equipment

1. High Speed Printer
 - a) Printing Rate—900 lines per minute.
 - b) Characters per Line—120.
 - c) Printing Characters—56.
2. Magnetic tape to punched card/punched card to magnetic tape converter
 - a) Reading Speed—2,000 cards per minute.
 - b) Punching Speed—100 cards per minute.
 - c) Extensive Format Editing.

Installation

1. Floor Space—800 square feet.
2. Power Requirements—110 V., 60 cycle (average system 15 KVA).
3. Air Conditioning—average of 5 tons.
4. Floor Loading—less than 80 lbs. per square foot.
5. No special sub-flooring or heavy electric cabling required.
6. Site Preparation Cost—\$5,000-\$15,000.

FIRST IN TRANSISTORIZED DATA PROCESSING



Transac S2000

A PRODUCT OF

PHILCO CORPORATION

GOVERNMENT & INDUSTRIAL DIVISION

4700 Wissahickon Avenue • Philadelphia 44, Pa.