

This little
disc
can hold
a lot of
data

IT'S THE STORAGE DEVICE FOR THE NEW FRIDEN 6018 MAGNETIC DISC FILE*

*A Trademark of Friden, Inc.

Friden* 6010 Electronic Computer with 6018 Magnetic Disc File



A WHOLE PAYROLL ON A SINGLE DISC!



Yes, you can store all necessary information for a payroll of 960 persons on one Friden* 6018 disc—specifically, 122,880 alphanumeric characters. You can use other discs for your invoicing, or inventory, or accounting, or whatever data you have that requires fast processing on the Friden 6010 Electronic Computer. ■ With the announcement of the Friden 6018 Magnetic Disc File, Friden offers the only available small-scale computer system with random access magnetic disc storage. This means that small and medium-sized companies can afford the advanced data processing techniques previously restricted to large companies. ■ The 6018 Magnetic Disc File operates on-line with the 6010 Electronic Computer. Each side of a disc contains 960 individually addressable computer words of 64 characters each, or a total of 61,440 characters of on-line storage. Because the discs are interchangeable, off-line storage is unlimited. ■ Features include automatic address verification, which assures that each record is properly located, and variable length data capability, which permits use of records of any size. Although standard word length is 64 characters, words may be expanded up to 512 characters. ■ Data may be recorded on the disc through the 6011 Flexowriter* (the basic input-output unit of the system), or directly from the 6010 central processor. ■ The entire system—6010 Electronic Computer and 6018 Magnetic Disc File—takes up little more space than a secretary's desk. It may be plugged into any standard wall outlet. Air conditioning is not necessary. ■ Here is a low-cost, small-scale system that embodies the most advanced electronic data processing techniques. Why not find out how its money-saving capabilities can work for your company? Your local Friden Systems man has the facts. Call him soon.

*A Trademark of Friden, Inc.

Magnetic discs, which weigh only 14 ounces, can be changed in about 30 seconds. Discs not in use are kept in compartments within the 6018 console.

APPLICATIONS:

INVOICING ■ INVENTORY UPDATING ■ CRITICAL ITEM PURCHASE REPORTS
ACCOUNTS RECEIVABLE AGING REPORTS ■ PAYROLL ■ LABOR DISTRIBUTION
PETROLEUM BILLING ■ UTILITY BILLING ■ TAX BILLING
GENERAL ACCOUNTING ■ BUDGET ACCOUNTING ■ ROUTE ACCOUNTING
HOSPITAL ACCOUNTING ■ MORTGAGE LOAN ACCOUNTING
COST ANALYSIS ■ SALES ANALYSIS ■ ACCOUNTS PAYABLE
PERSONNEL RECORDS ■ PRODUCTION CONTROL ■ STOCK/BOND CONFIRMATION
QUALITY CONTROL ■ NUMERICAL CONTROL
PARTS EXPLOSION ■ FORMULATION EXPLOSION
CORRELATION ■ LEAST SQUARES COMPUTATIONS



THIS IS THE FRIDEN 6018 MAGNETIC DISC FILE

A low-cost, random access memory unit for the Friden 6010 Electronic Computer



SPECIFICATIONS:

6018 MAGNETIC DISC FILE

PROCESSING SPEEDS

Access Time _____ 6 ms minimum
180 ms average
360 ms maximum

Latency Time _____ 0 ms minimum
25 ms average
50 ms maximum

OPERATIONAL CHARACTERISTICS

Disc _____ 1,200 r.p.m. Data transfers at 50 ms per character to 6010 central processor, 100 ms per character to 6011 Flexowriter

Read/Write Head _____ Contacts disc with pressure equivalent to 1 gram

DATA ORGANIZATION/CAPACITY

7 bits per character 122,880 characters per disc
64 characters per word 61,440 characters per disc side
8 words per track (maximum on-line storage)
60 tracks per zone 512 characters per track
2 zones per disc side 64 characters per word
(expandable to 512 characters, or one track)

DIMENSIONS/WEIGHT

Console _____ 17³/₄" by 18¹/₂" by 27" high; 120 lbs.
Disc _____ 12" diameter; 14 oz.

6010 ELECTRONIC COMPUTER

INTERNAL OPERATING SPEEDS

Add/Subtract: 1.3 ms
Multiply: 50 ms average
Division and Square Root: program subroutine
Input/Output: 10 characters per second
(all operating speeds include core access)

MEMORY

Variable Storage _____ 240 decimal digits of core memory in 15 words of 16 digits each
Fixed Storage _____ 80 decimal digits in 5 words of 16 digits each

POWER REQUIREMENTS

105-115 volts, AC, 60 cycles
($\pm 1/2$ cycle) 2 amperes maximum

Your local Friden office can give you complete details on how the Friden 6010 Electronic Computer with 6018 Magnetic Disc File can improve operations in your company. Why not call now? Or write to/ _____

Friden, Inc.

SAN LEANDRO • CALIFORNIA
SALES AND SERVICE THROUGHOUT THE WORLD
A SUBSIDIARY OF THE SINGER COMPANY

FRIDEN, INC.

M. R. UNDERWOOD, Branch Manager
125 Wealthy Street, S.E., P.O. Box 2186
Grand Rapids, Michigan 49501
Phone 459-9487 and 451-0117

4616 N. Grand River Ave.
P.O. Box 847
Lansing, Michigan 48904
Phone IV 2-8917

G-1211 N. Ballenger Rd.
P.O. Box 4127
Flint, Michigan 48504
Phone CE 4-9561

DATA ORGANIZATION

7 bits per character
64 characters per word
8 words per track
60 tracks per zone
2 zones per disc side

DATA CAPACITY

122,880 characters per disc
61,440 characters per disc side
(MAXIMUM ON-LINE STORAGE)
512 characters per track
64 characters per word
(EXPANSIBLE TO 512 CHARACTERS—OR ONE TRACK)

PROCESSING SPEEDS

50 ms per character
360 ms maximum
180 ms average
6 ms minimum

ACCESS TIME

READ/WRITE

Friden Inc.

SAN LEANDRO, CALIFORNIA
SALES AND SERVICE THROUGHOUT THE WORLD
A SUBSIDIARY OF THE SINGER COMPANY

PRINTED IN U.S.A.
FORM 74-240

960 individual addresses

512 characters accessible in one operation

64 characters per word

Indirect addressing ability

Variable length data capacity

FACTS

60 TRACKS

ZONE 0

DATA ORGANIZATION

7 bits per character
64 characters per track
8 words per track
60 tracks per zone
2 zones per disc side

characters per track
(EXPANSIBLE TO 512 CHARACTERS—OR ONE TRACK)

PROCESSING SPEEDS

6 ms minimum
180 ms average
360 ms maximum
50 ms per character

ACCESS TIME

READ/WRITE TIME

Friden, Inc.

SAN LEANDRO, CALIFORNIA
SALES AND SERVICE THROUGHOUT THE WORLD
A SUBSIDIARY OF THE SINGER COMPANY

PRINTED IN U.S.A.
FORM 74-240

FACTS

960 individual addresses
512 characters accessible in one operation
64 characters per word
Indirect addressing ability
Variable length data capacity

60 TRACKS

ZONE 0

60 TRACKS

ZONE 1

**Special Showing
of
New
Data
Processing
Systems**

DONALD F. FUNK
SYSTEMS DIVISION

Friden, Inc.

3202-04 S. PENNSYLVANIA AVENUE
LANSING, MICHIGAN
PHONE: 393-0370

Friden, Inc.

SAN LEANDRO • CALIFORNIA

SALES AND SERVICE THROUGHOUT THE WORLD

A SUBSIDIARY OF THE SINGER COMPANY

by *Friden, Inc.*

SEE demonstrations of

COMPLETE PAYROLL SYSTEMS

•

SALES ORDER WRITING

•

PURCHASE ORDER WRITING

•

INVOICING SYSTEMS

Sell & Cost

Fractional Billing

Inventory Control Systems

•

*Also Many Other
Data Processing Applications*

YOU'RE INVITED

to this showing

at FRIDEN, INC.

1938 E. Jefferson Avenue

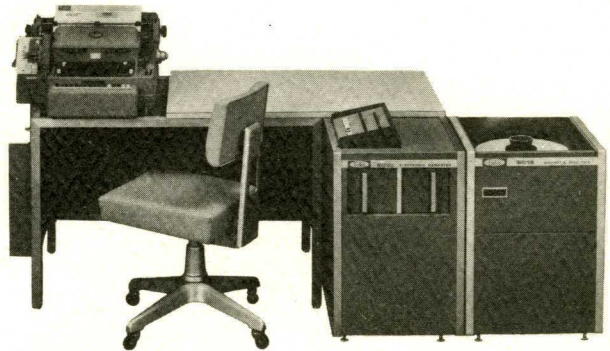
Detroit, Michigan

Tues., Wed., Thurs., June 22, 23, 24

From 12 Noon *til* 9 P. M.

Please fill in the enclosed card and mail today

Friden, Inc.



6010 *Electronic Computer with
6018 Magnetic Disc File*



5010 *COMPUTYPER* electronic
billing/accounting machine*



2201 *FLEXOWRITER* automatic
writing machine*

*A Trademark of FRIDEN, INC.

1965