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.
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
(expanisible to 512 characters, or one track)

DIMENSIONS/WEIGHT
Console: 17 1/2" by 18 1/2" 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
(±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

FORM 14-237 PRINTED IN U.S.A.
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)

DATA ORGANIZATION

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

PROCESSING SPEEDS

180 ms minimum
360 ms maximum
50 ms per character
ACCESS TIME
READ/WRITE

FACTS

960 individual addresses
512 characters accessible in one operation
64 characters per word
Indirect addressing ability
Variable length data capacity
**Friden, Inc.**

**San Leandro, California**

**SANYO**

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

**Processing Speeds:**
- 50 ms per character
- 360 ms maximum
- 180 ms average
- 6 ms minimum

**Access Time:**
- 280 ms

**Data Organization:**
- 7 bits per character
- 64 characters per word
- 8 words per track
- 60 tracks per zone
- 2 zones per disc side

**Zone Configuration:**
- Zone 0:
  - 60 tracks
- Zone 1:
  - 60 tracks
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.