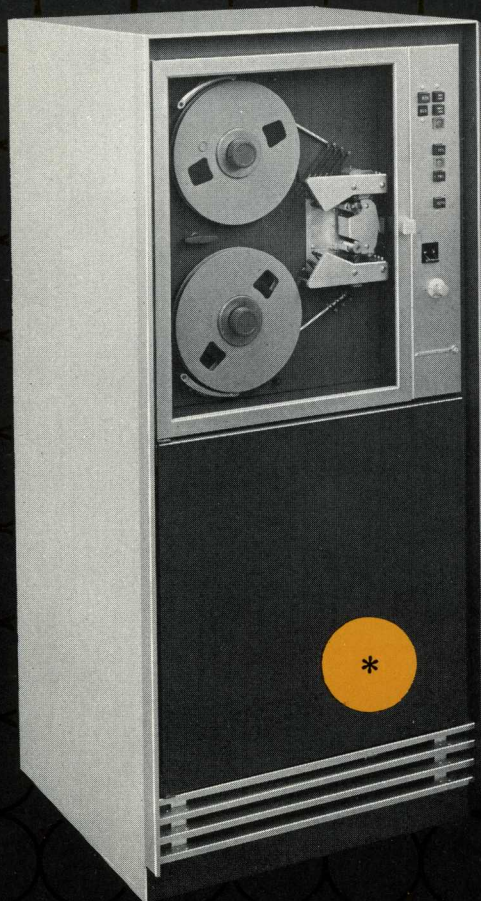# RECOMP

DIGITAL MAGNETIC TAPE UNITS

MAGNETIC TAPE UNITS for the RECOMP II general purpose digital computer dramatically expand the RECOMP II memory and its areas of application. Each magnetic tape unit will store up to 1,000,000 words on a single 3600-foot reel, vastly extending the scope of scientific computation and data reduction capabilities. Up to four units may be used with a RECOMP II computer.

RECOMP MAGNETIC TAPE UNITS automatically read, write, and search blocks of tape by means of instructions programmed with the computer. Each unit reads 1850 ch/sec, at a tape speed of 9.25 inches per second...searches and rewinds 55.5 inches of tape per second, with optional 200 inch-per-second rewind capability. Pulse packing density is 200 characters per inch. One unit will read or write on tape an entire computer memory in 20 seconds.

FEATURES INCLUDE COMPLETE push-button control, variable length blocks, bi-directional fast start-stop, and erasure control. Built-in parity checks provide immediate verification of reading and writing. The units are compatible with other computer equipment using binary format. They are low-cost and require no external buffer purchases.

MAGNETIC TAPE—the fastest, most efficient, economical method of handling and storing large volumes of data—facilitates RECOMP II operations. It expands capacity to handle problems of virtually any complexity, and increases versatility and output of the computer and associated equipment. The high-speed units reduce tape costs, tape storage space, tape handling, and computer time. RECOMP MAGNETIC TAPE UNITS offer solid-state reliability and extensive field experience for operational dependability and precision tape handling.

AUTONETICS Ⓐ Industrial Products

A DIVISION OF NORTH AMERICAN AVIATION, INC.   3400 E. 70TH STREET, LONG BEACH, CALIFORNIA

Expands RECOMP II memory up to 4,000,000 words

LOW COST, HIGH-SPEED, AUXILIARY STORAGE

FLEXIBLE

Variable-Length Blocks
Tape Updating Ease
IBM Binary Format Compatibility
Bi-Directional Rewind
11 Operations, 3 Simple Commands
No Conversion Equipment Needed
One to Four Units Optional

ACCURATE

Tape Flaw Bypass
Tape-Erase Control
Fail-Safe Write Inhibitor
End-of-Tape Sensing
Read/Write Parity Check

SIMPLE TO OPERATE

Illuminated Push-Button Controls
Quick-Change Reels
Fast Threading
Manual or Automatic Operating Modes

RELIABLE

Smooth Start, Positive Braking
Unobstructed Access for Preventive
    Servicing
Plug-In Circuitry for Minimum
    Maintenance
Transistorized Reliability

APPLICATIONS

PERMITS

- Searching, sorting and merging of large amounts of data
- Accelerated program debugging
- Handling of large matrix operations and data reduction problems
- Condensing of vast amounts of information onto small, easily stored reels
- Communication with binary computers
- Tape feeding of line printers, data plotters, and digitally programmed tool and process machines

STORES

- Master files
- Historical data subject to repetitive use
- Machine language programs, automatic programs, lengthy routines
- Volumes of raw data in linear programs, statistical routines, etc.
- Computations with large amounts of intermediate results or data
- Computation results to be read back on demand

EXPANDS

- Computer capabilities in scientific and industrial data reduction
- Scope of engineering computers into areas of management sciences
- Scheduling, inventory control, financial forecasting, file maintenance, quality control, and record processing

SPECIFICATIONS

STORAGE CAPACITY	1,000,000 words on 3600-ft. reel 680,000 words on 2400-ft. reel
RECORDING DENSITY	200 characters/inch
TAPE SPEEDS	Read/Write—1850 characters/second Read/Write—9.25 inches/second Search and Rewind—55.5 inches/second (bi-directional) Fast Rewind (optional)—200 inches/second Start/Stop—less than 5 milliseconds
INFORMATION FORMATS	7-channel RECOMP (5 information bits, 1 block mark bit, and 1 parity bit per character); 7-channel IBM binary (6 information bits and 1 parity bit per character); odd bit parity in both formats
BLOCK LENGTH	RECOMP format—512 to 4096 characters in increments of 512 characters; IBM format—384 to 3072 characters in increments of 384 characters
REEL TYPE	10½ inch with standard IBM hub type
TAPE LENGTH	Up to 3600 feet
TAPE CHARACTERISTICS	Mylar, ½ inch wide
ERASURE CAPABILITIES	Erase varying length blocks, whole tape, or manual erase.
COMPONENTS	Tape Transport, Control Unit, 7-channel dual type Read/Write Head and Amplifier, and Drive Electronics —housed in a single cabinet
SIZE	28 inches wide x 26 inches deep x 64 inches high
WEIGHT	Approx. 650 lbs.
POWER REQUIREMENTS	115-volt, 60-cycle, single phase, 15-amps (per unit)
OPERATING AMBIENT TEMPERATURE RANGE	60°F to 105°F
COOLING	Self-contained

Note: To assure you the best possible equipment, Autonetics Industrial Products reserves the right to change specifications at any time.