

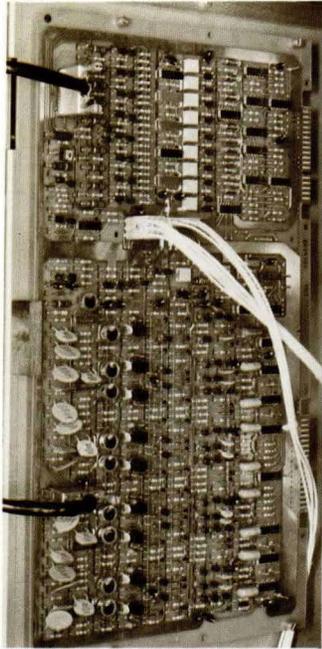
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**W** WANGCO  
INCORPORATED

# MOD 1100

MAGNETIC TAPE SYSTEMS



# MOD 1100

The *Mod 1100* Series of magnetic tape transports offers wide performance with tape speeds from 25 ips to 75 ips, in four models, with the economy of identical packaging, interface and operator controls. The low cost and high reliability of the *Mod 1100* Series, all featuring vacuum column design, fit into an unusually broad range of applications, including small computers, data conversion systems, terminal storage, process control, keytape systems and data communications systems.

WANGCO's newly designed self-loading vacuum chambers utilize a new long-life brushless blower motor. With quick-release reel hold-down knobs, straight-line tape threading and automatic on-line operation the *Mod 1100* offers unparalleled operator convenience.

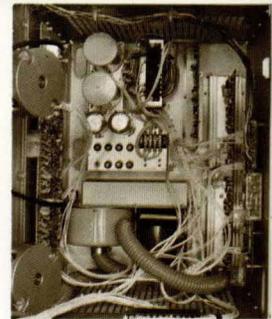
The *Mod 1100* is fully IBM compatible, and has been designed to plug into most low cost tape system controllers.

Transfer rates are as high as 120,000 bytes-per-second with data densities of up to 800 cpi NRZI and 1600 cpi phase encoded individually or in dual-density combination.

The switch-selectable 800/1600 cpi dual-density option offers new convenience and flexibility to users of COM systems, off-line printers, and the newer computers in which transitions from NRZI to phase encoded format is required.

As many as four drives may be daisy chained, using built-in parallel connections, and a unit select switch is provided on the operator control panel.

The *Mod 1100* comprises six basic subassemblies: the tape transport, transport electronics, control logic, data electronics, power supply and vacuum system.



- Single capstan drive
- IBM head guide spacing assures tape interchangeability
- Tape cleaner with special, harder blades, for long-life, better data reliability
- Transport chassis hinged for easy maintenance
- Electronic channel-by-channel write deskewing
- Program controlled read threshold

# SPECIFICATIONS

## Data Density:

9 Track — 800 cpi, and/or 1600 cpi  
7 Track — 800/556, 556/200 cpi

## Tape Speeds:

Mod 1125: 25 ips  
Mod 1137: 37.5 ips  
Mod 1145: 45 ips  
Mod 1175: 75 ips

## Total Speed Variation:

± 4% maximum

## Rewind Velocity:

200 ips nom. (Mod 1175)  
150 ips nom. (all other models)

## Start/Stop Distance:

Start Distance  $0.17 \pm 0.02$   
Stop Distance  $0.19 \pm 0.02$

## Start/Stop Time:

5.3 ms maximum at 75 ips  
8.9 ms maximum at 45 ips  
10.7 ms maximum at 37½ ips  
16.0 ms maximum at 25 ips

## Head:

Dual Gap

## Number of Tracks:

7 IBM-compatible  
9 USASCII-compatible

## Recording Mode:

NRZI IBM, USASCII compatible, or  
phase encoded

## Static Skew, WRITE:

Electronic skew compensation supplied  
for NRZI

## Static Skew, READ:

100 microinches, maximum

## Dynamic Skew:

100 microinches, maximum

## Tape Specifications:

Computer grade, 0.5" wide, 1.5 mil  
thick mylar base

## Reel Size:

Up to 10½ inch diameter, IBM hub  
compatible, optional removable  
take-up reel

## Electronics:

Silicon solid state and 930 Series DTL  
Logic

## Interface:

DTL Logic (Low True)

## Weight:

160 lbs.

## Height:

24"

## Width:

19"

## Depth:

19" (From mounting surface)

## Power:

90-125 VAC ± 10%, 8.5 amps./180-250  
VAC ± 10%, 4.2 amps., 48-62 Hz.

## Operating Environment

### Temperature:

60° to 90° F

### Relative Humidity:

20 — 80%, Non-condensing

## Non-Operating Environment

### Temperature:

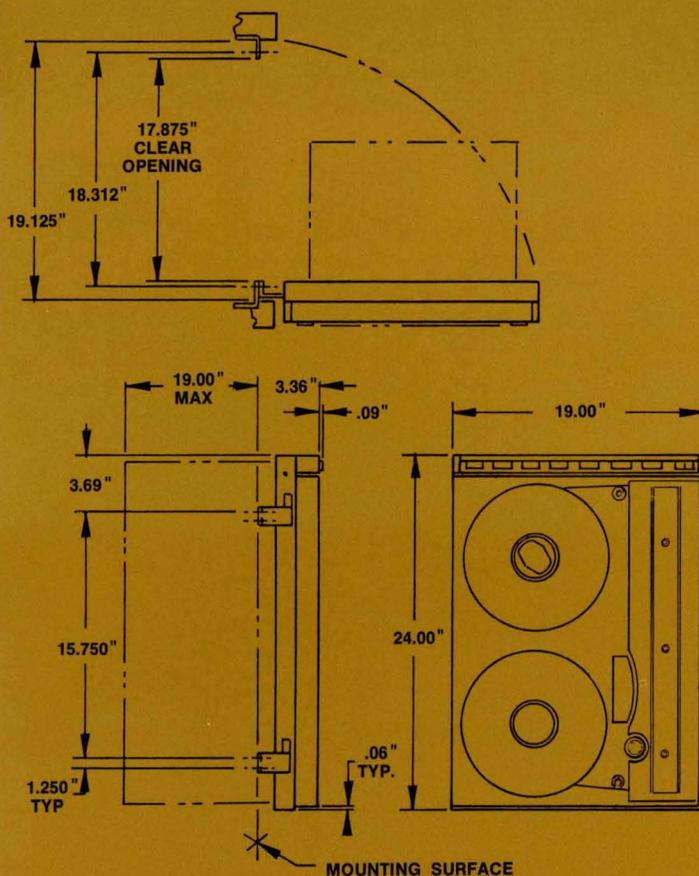
— 30° to 140° F

### Relative Humidity:

15 — 95%, Non-condensing

## Altitude:

0 — 5,000 feet (standard)  
5,000 and up (optional)



INSTALLATION DIAGRAM

NRZI AND PHASE-ENCODING  
FORMATTERS AVAILABLE.

CONTACT US FOR DETAILED  
TECHNICAL DATA.



## MOD 1100

WANGCO's customers are supported by a network of sales and service offices located in 25 cities in the United States, and 6 in Europe. Each location is staffed with personnel having exceptional technical and marketing competence.

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