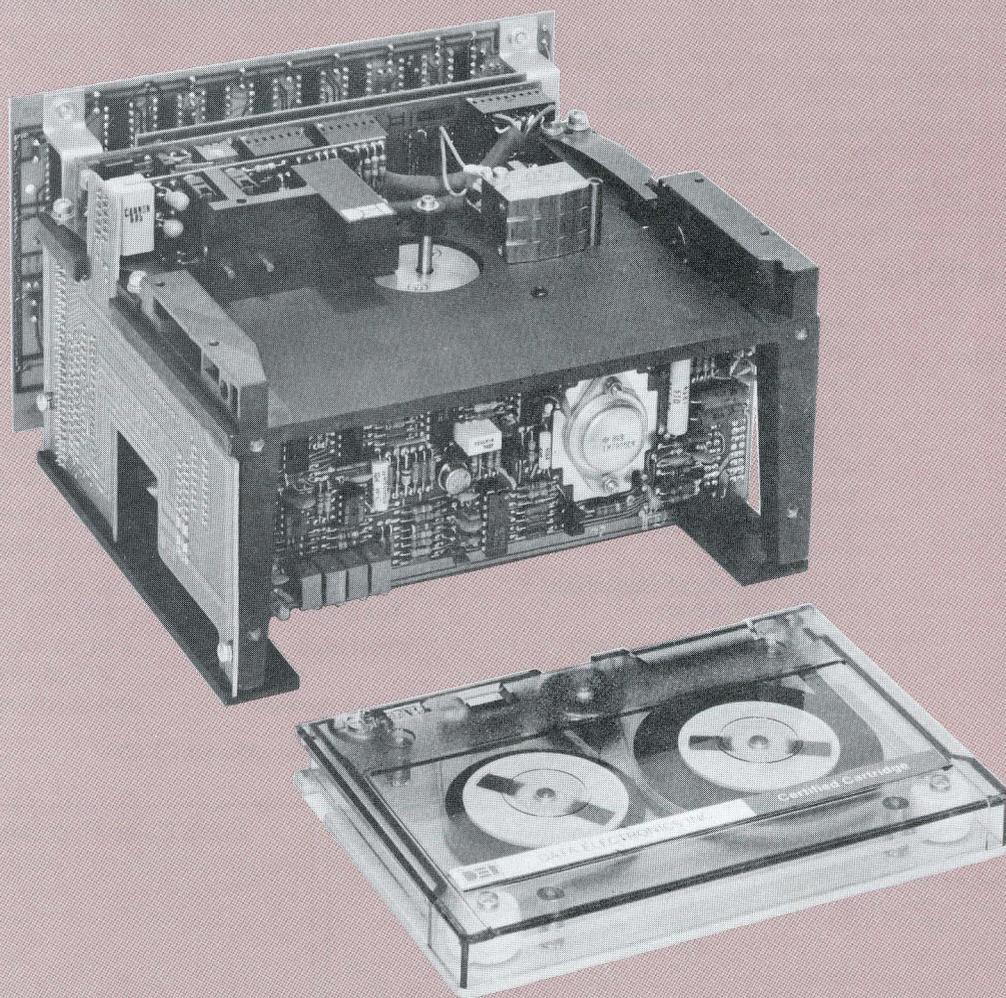


THE FUNNEL
SERIES 3400
HIGH DENSITY CARTRIDGE MAGNETIC TAPE DRIVES



**DATA
ELECTRONICS
INC.**

**FIRST IN
CARTRIDGE TAPE DRIVES**

GENERAL DESCRIPTION

The Funnel is the cartridge magnetic tape drive which has been most frequently selected by system designers to back-up small fixed disk systems. The drive has the capability of a full tape peripheral with file search, track select, and the capacity to change or add to existing records. A high duty cycle motor with continuous start-stop capability enables the Funnel to construct and read files with standard ANSI interblock gaps at 30 ips and locate and read these files at either 30 or 90 ips in both the forward and reverse directions. Up to 17.3 megabytes of data can be stored on 4 tracks.

With over 20,000 high density drives in service, the reliability of this product has been proven world wide.

Standard features of the Funnel include an integral tape cleaner which greatly enhances error free performance. A patented center-of-gravity mounting of the capstan motor allows the drive to be

mounted in any position or attitude. A proprietary dual gap head provides for read-while-write data verification and has a separate erase to assure maximum data reliability.

Up to 8 drives can be connected together on a common buss. A codec card provides data encoding of Binary (data and strobe) to a self clocking MFM code and decoding MFM to Binary (data and strobe).

ANSI standard media is available from multiple industry sources and controllers are available from a growing number of independent companies. Among the interfaces available are: μ Nova, Nova, Q Bus, S100, Multibus, LSI 11, Unibus, and RS-232. Modular power supplies are also available from multiple sources. For more information on media, controllers or power supplies, contact your local DEI Field Office or Representative.

OPTIONS AVAILABLE

Control Card

Common Bussing \leq 8 Drives
 Customer Selectable Unit Logic Address
 Forward Motion Prevented at EOT
 Reverse Motion Prevented at BOT
 High Speed Allowed only between LP and EW
 Automatic Positioning to BOT on:
 Cartridge Insertion, Power On, Rewind
 High Level Status Signals:
 Busy, Ready, Flag, Selected, Write
 Enable, Load Point Sensed, Early
 Warning Sensed

Codec Card

Data Separation
 Binary (Data and Strobe) to MFM
 MFM to Binary (Data and Strobe)

SPECIFICATIONS

Cartridge:	ANSI X 3.55—1977 (450')	MTBF:	\geq 3000 hours
Recording Density:	6400 bpi (2520 bpcm), MFM or other High Density Codes	MTTR:	\leq 30 minutes
Recording Mode:	4 Track Serial	Data Reliability:	Less than 1 Error in 10^{10} Bits
Head Type:	Dual Gap, Read-While-Write with Separate Erase	Voltage Requirements:	+5 Vdc (\leq 1.5 amps) \pm 24 Vdc (\leq 1.5 amps)
Tape Cleaner:	Integral	Interface Logic:	TTL Low True
Operating Speeds:	30 ips (76 cm/s) Write, Bidirectional Read 90 ips (228.6 cm/s) Bidirectional Search and Rewind	Weight:	4.2 lb. (1.9 kg)
Transfer Rate:	192 kbits/sec (24 kbytes/sec)	Dimensions:	4.25" x 6.96" x 7.75" (10.80 cm x 17.68 cm x 19.69 cm)
Start/Stop Time:	At 30 ips (76 cm/s): 25/26 msec At 90 ips (228.6 cm/s): 71/74 msec	Temperature:	+ 5°C to + 45°C Operating - 30°C to + 60°C Storage
		Relative Humidity:	20% to 80% Non-Condensing

For more detailed information on the Funnel, request Product Specification 301056

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For hostile environments, request information on DEI R Series Ruggedized Drives