

Mag tape table headings

The descriptions are broken into the categories of: General Features, Performance Data, Cost Data, Marketing Summary, and Remarks. The definitions of the items under these categories are given below. If the descriptions mean the same as those in the previous tables, the explanation is omitted.

Manufacturer. This is the name of the original equipment manufacturer. With one previously mentioned exception, these are also the companies which market the units to the end users and service the leased or purchased units.

Number of tracks. This number includes the number of bits that are recorded simultaneously across the width of the magnetic tape. The number includes a parity bit which is checked when read.

Recording. The entry means either nonreturn to zero (NRZ) or phase encoding or both.

Automatic threading. This indicates the capability to automatically thread the tape on the take-up reel, load the vacuum columns, move the tape to the load point (reflector), lower the read/write head and indicate ready to the operator and return ready status to the controller. Some units also include a power window which is automatically raised during the load process.

Read backwards. This feature is not usually con-

sidered critical but it does increase the efficiency of data sorts and merges, and other data processing applications. It might be a deciding factor when competitively comparing two otherwise equal contenders.

Tape speed. This number indicates the magnetic tape speed, in inches per second (ips), during read/write operations.

Recording densities. The recording density is usually expressed as bits per inch (bpi) but it really indicates bytes per inch as all bits of each byte are recorded simultaneously across the width of the tape. Many models offer seven tracks per inch as options, and this option normally indicates the ability to write or read tapes, compatible with the IBM 729 Series, at 200, 556, and/or 800 bpi.

Data transfer rate. The transfer rate is given in thousands of bytes per second.

Rewind time. This number indicates the time, in seconds, required to return the tape to the load point from the end-of-tape. Some of the numbers may indicate average rewind time and thus half of the maximum rewind time.

Lease rate. The lease rate is the cost of monthly rental including at least one shift of maintenance. The rate is according to the shortest term available, usually one year.

Purchase Price, Maintenance, Delivery Lead, First Delivery, and Comments have definitions similar to those specified for magnetic discs.

MAGNETIC TAPE UNIT REPLACEMENTS						
MANUFACTURER		Ampex Corporation				Bucode (OEM)
GENERAL	MODEL NO.	TM-1624 II	TM-1624 III	TM-1624 V	TM-1624 VI	20247
	REPLACES IBM MODEL	2401-2	2401-3	2401-5	2401-6	2420-7
FEATURES	NO. OF TRACKS	9*	9*	9	9	9
	RECORDING MODE	NRZ	NRZ	Phase	Phase	Phase
	AUTOMATIC THREADING	No	No	No	No	Yes
	READ BACKWARDS	Yes	Yes	Yes	Yes	Yes
PERFORMANCE DATA	TAPE SPEED	75	112.5	75	112.5	200
	RECORDING DENSITIES	800	800	800/1600	800/1600	1600
	DATA TRANSFER RATE	60	90	60/120	90/180	320
	REWIND TIME	90	90	90	90	60
COST DATA	LEASE RATE	400	520	435	530	
	PURCHASE PRICE	14,400	17,900	16,400	21,600	
	MAINTENANCE	70	86	82	98	
MARKETING SUMMARY	DELIVERY LEAD	3	3	3	3	3
	FIRST DELIVERY	Oct. 1968	Oct. 1968	Oct. 1968	Oct. 1968	Mar. 1970
REMARKS		*Seven track version available, GSA Contract, Auto-load feature, single capstan drive, vacuum-column rewind, servo control of tape speed.				See Text

MANUFACTURER		Potter Instrument Company				
GEN-ERAL	MODEL NO.	SC 2402	SC 2403	SC 2405	SC 2406	AT 2425
	REPLACES IBM MODEL	2401-2	2401-3	2401-5	2401-6	2420-5
FEAT-URES	NO. OF TRACKS	9	9	9	9	9
	RECORDING MODE	NRZ	NRZ	Phase	Phase	Phase
	AUTOMATIC THREADING	No	No	No	No	Yes
	READ BACKWARDS	Yes	Yes	Yes	Yes	Yes
PERFORMANCE DATA	TAPE SPEED	75	112.5	75	112.5	100
	RECORDING DENSITIES	800	800	1600	1600	1600
	DATA TRANSFER RATE	60	90	120	180	160
	REWIND TIME	130	100	130	100	100
COST DATA	LEASE RATE	400	530	440	550	500
	PURCHASE PRICE	18,200	21,100	20,800	25,000	-
	MAINTENANCE	85	90	95	100	105
MARKETING SUMMARY	DELIVERY LEAD	1 or 2	1 or 2	1 or 2	1 or 2	1 or 2
	FIRST DELIVERY	1968	1968	1968	1968	Aug. 1970
REMARKS		Single capstan drives, vacuum-column rewind-automatic threading versions available. Potter TC5803 Controller replaces IBM 2803-1, 2.				See Text

MANUFACTURER		Potter	Storage Technology Corporation			
GEN-ERAL	MODEL NO.	AT 2427	ST 2430	ST 2450	ST 2460	ST 2470
	REPLACES IBM MODEL	2420-7	2401-3	2420-5	2401-6	2420-7
FEAT-URES	NO. OF TRACKS	9	9	9	9	9
	RECORDING MODE	Phase	NRZ	Phase	NRZ/Phase	Phase
	AUTOMATIC THREADING	Yes	Yes	Yes	Yes	Yes
	READ BACKWARDS	Yes	Yes	Yes	Yes	Yes
PERFORMANCE DATA	TAPE SPEED	200	112.5	100	112.5	200
	RECORDING DENSITIES	1600	800	1600	800/1600	1600
	DATA TRANSFER RATE	320	90	160	90/180	320
	REWIND TIME	75	60	60	60	60
COST DATA	LEASE RATE	885	545	515	555	820
	PURCHASE PRICE		25,000	24,000	27,000	37,000
	MAINTENANCE	115	105	100	110	110
MARKETING SUMMARY	DELIVERY LEAD	1 or 2	2	2	2	2
	FIRST DELIVERY	Oct. 1970	Nov. 1970	Jan. 1970	Sept. 1970	Oct. 1970
REMARKS		See Text	Cartridge loading, automatic threading, single capstan drive, 24-hour maintenance, many other technical features.			

MANUFACTURER		Telex, Computer Products Division				
GEN-ERAL	MODEL NO.	4812	4822	4832	4852	4862
	REPLACES IBM MODEL	2401-1	2401-2	2401-3	2401-5	2401-6
FEATURES	NO. OF TRACKS	9*	9*	9*	9	9
	RECORDING MODE	Phase	Phase	Phase	Phase	Phase
	AUTOMATIC THREADING	No	No	No	No	No
	READ BACKWARDS	No	No	No	No	No
PERFORMANCE DATA	TAPE SPEED	37.5	75	112.5	75	112.5
	RECORDING DENSITIES	800	800	800	800/1600	800/1600
	DATA TRANSFER RATE	30	60	90	60/120	90/180
	REWIND TIME	80	80	80	60	60
COST DATA	LEASE RATE	310	435	530	480	540
	PURCHASE PRICE	15,740	17,020	19,340	19,900	25,170
	MAINTENANCE	62	70	86	82	98
MARKETING SUMMARY	DELIVERY LEAD	1	1	1	1	1
	FIRST DELIVERY	1969	1969	1969	1969	1969
REMARKS		*Seven-track version available, automatic loading.				

MANUFACTURER		Telex	Texas Instruments			
GEN-ERAL	MODEL NO.	5420-7	924-2	924-3	924-5	924-6
	REPLACES IBM MODEL	2420-7	2401-2	2401-3	2401-5	2401-6
FEATURES	NO. OF TRACKS	9	9*	9*	9	9
	RECORDING MODE	Phase	NRZ/Ph	NRZ/Ph	NRZ/Ph	NRZ/Ph
	AUTOMATIC THREADING	Yes	No	No	No	No
	READ BACKWARDS	No	Yes	Yes	Yes	Yes
PERFORMANCE DATA	TAPE SPEED	200	75	112.5	75	112.5
	RECORDING DENSITIES	1600	800	800	1600	1600
	DATA TRANSFER RATE	320	60	90	120	180
	REWIND TIME	60	100	100	100	100
COST DATA	LEASE RATE	890	426	489	470	499
	PURCHASE PRICE	~45,000	11,400	11,900	11,700	12,500
	MAINTENANCE	120	109	138	131	160
MARKETING SUMMARY	DELIVERY LEAD	1	2 or 3	2 or 3	2 or 3	2 or 3
	FIRST DELIVERY	1969	Nov. 1969	Nov. 1969	Nov. 1969	Nov. 1969
REMARKS		*Seven-track version available, single capstan drive, vacuum-column rewind, 16-hour maintenance.				