



08/13/2011 16:17

OREX
GENETIC PRODUCTS

GENERAL

TECHNICAL DATA

PRICES

SPECIFICATIONS

08/13/2011 16:18

INTEROFFICE CORRESPONDENCE

TO: Sales Engineers

DATE: 7 December 1967

FROM: Chuck Scarbrough
Technical Service Center

COPY TO: N. N. Denney

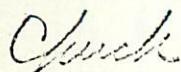
SUBJECT: RECOMMENDED RECORDING REFERENCES AND SPECIFICATIONS

The following list of documents will, (1) prove invaluable for initial familiarization with magnetic recording techniques and, (2) delineate a portion of the many specifications that magnetic tape must meet. Subject documents will subsequently serve as handy references for most recording methods, as they do not deal exclusively with the instrumentation field of magnetic recording.

Although the five items are presently up-to-date, they are subject to continuing revision. For instance, the revised W-T-0070 (Navy Ships) series (Item 3) will soon be "on the street". You can stay abreast of this ever changing business by having the latest available information in mind and at hand.

1. Inter-Range Instrumentation Group (IRIG) 106-66 Telemetry Standards
(Instrumentation Section begins with 5.6, page 25)
Available: Secretariat
Range Commanders Council
White Sands Missile Range
New Mexico, 88002
2. National Aeronautics and Space Administration (NASA)
Goddard Space Flight Center (GSFC) X-534-67-195
(Specifications for Wideband Magnetic Recorder Tape)
Available: NASA - Goddard Space Flight Center
Facilities Source Office, Code 243
Glendale Road
Greenbelt, Maryland 20771
3. Interim Federal Specifications W-T-0070 (Navy - Ships) W-T-0070/1-5
Sections 4 and 5 applicable to Instrumentation
Available: Nearest General Services Administration Regional Office
4. Set of five (5) Memorex Monographs
(Terms, Head Wear, Tape Failure Causes, Tape Production, & Evaluating
Digital Magnetic Tape)
Available: Memorex
5. Magnetic Tape Recording Handbook
Hewlett Packard Application Note 89
Available: Any Hewlett Packard Establishment

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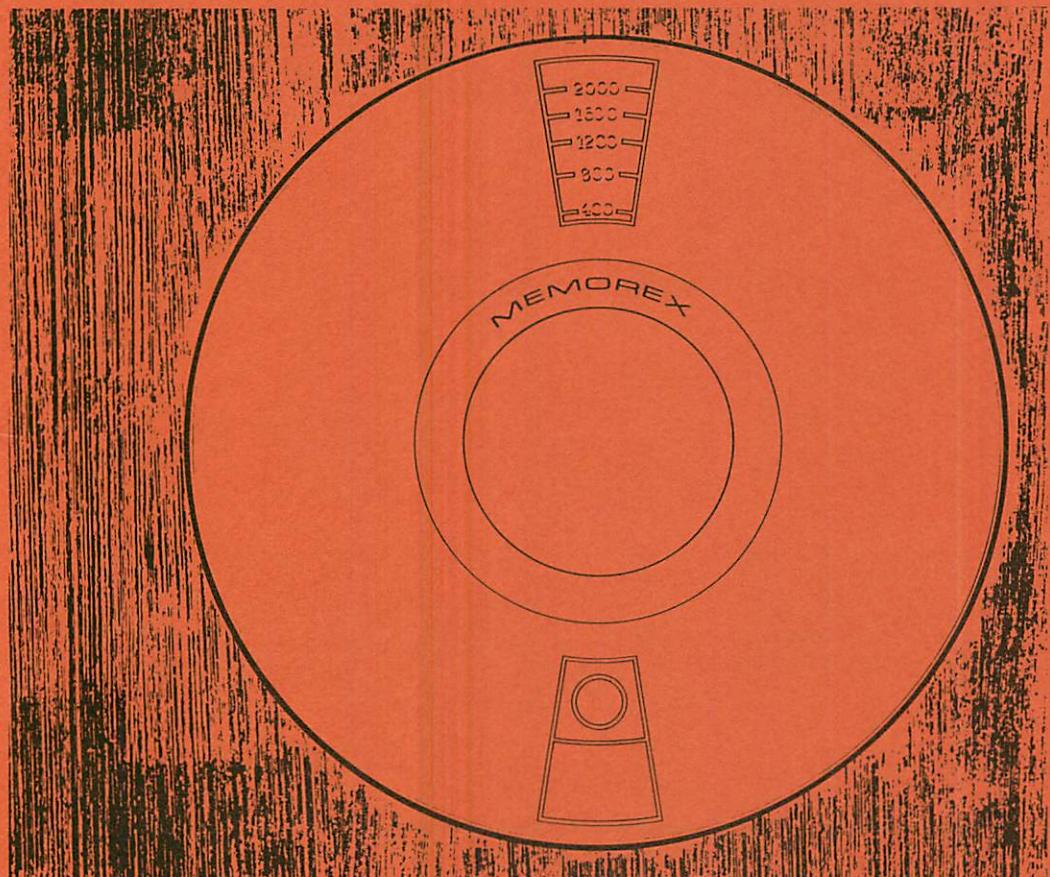


Pages Omitted

Prices Section Follows

MEMOREX

PRECISION COMPUTER TAPE



HEAVY-DUTY
LONG-WEAR



MAGNETIC TAPES FOR COMPUTERS MANUFACTURED IN ACCORDANCE
WITH INTERIM FEDERAL SPECIFICATION W - T - 0051A AND LISTED ON
QUALIFIED PRODUCTS LIST NO. QPL - W - T - 0051

Effective Period - Sept. 1, 1967 through Aug. 31, 1968

FSC Group 58, PART V, Communication Equipment FSC Class 7440

Tape Electronic Data Processing

Contract Number GS-00S 72716

General Services Administration Federal Supply Service

Ordering Information for Memorex Precision Computer Tape

Tapes listed below include tape and control devices, wound on aluminum hub reel, and packed in a dust-free round plastic container.

Federal Stock Number 7440-072-0309	Memorex Catalog Number	Width and Length	1- 99	100- 249	250- 499	500- 999	1000+
800 BPI 7 TRACK GRAY	2221-HI-3411C-A2						
800 BPI 7 TRACK BLUE	2221-HI-3412C-A2						
800 BPI 7 TRACK YELLOW	2221-HI-3413C-A2						
800 BPI 7 TRACK RED	2221-HI-3414C-A2						
800 BPI 7 TRACK WHITE	2221-HI-3415C-A2	1/2" x 2400'	\$28.00	\$27.25	\$26.50	\$26.00	\$23.25
800 BPI 7 TRACK GREEN	2221-HI-3416C-A2						
800 BPI 7 TRACK BLACK	2221-HI-3417C-A2						
800 BPI 7 TRACK TAN	2221-HI-3418C-A2						
800 BPI 7 TRACK ORANGE	2221-HI-3419C-A2						
Federal Stock Number 7440-072-0307	Memorex Catalog Number	Width and Length	1- 99	100- 249	250- 499	500- 999	1000+
800 BPI 9 TRACK GRAY	2222-HI-3411C-A2						
800 BPI 9 TRACK BLUE	2222-HI-3412C-A2						
800 BPI 9 TRACK YELLOW	2222-HI-3413C-A2						
800 BPI 9 TRACK RED	2222-HI-3414C-A2						
800 BPI 9 TRACK WHITE	2222-HI-3415C-A2	1/2" x 2400'	\$29.50	\$28.75	\$28.00	\$27.50	\$24.75
800 BPI 9 TRACK GREEN	2222-HI-3416C-A2						
800 BPI 9 TRACK BLACK	2222-HI-3417C-A2						
800 BPI 9 TRACK TAN	2222-HI-3418C-A2						
800 BPI 9 TRACK ORANGE	2222-HI-3419C-A2						

TERMS: Memorex Corporation offers this material delivered F.O.B. Destination to any point within the 50 states and Puerto Rico. Terms for prompt payment are 2% - 20 days; net 30. All material will be shipped from the Memorex main plant located in Santa Clara. A blanket order may be placed for delivery to several destinations and/or for several smaller orders to be delivered over a period of time and will receive price based on total quantity.

TAXES: Prices shown in this price list do not include any applicable state or local taxes.

ASSORTING PRIVILEGES: All Memorex tapes are assortable for quantity price.

DELIVERY: Within the 48 contiguous states, one (1) to five hundred (500) reels delivered within four (4) weeks; more than five hundred (500) reels delivered within sixty (60) days. Alaska, Hawaii and Puerto Rico, one (1) to five hundred (500) reels can be shipped within four (4) weeks; five hundred (500) reels or more can be shipped within sixty (60) days.

ORDERS: All orders should be mailed to the nearest branch office listed. Invoices will be submitted from Memorex Corporation in Santa Clara, California.

Branch Sales / Engineering Offices are located at:

NORTHEAST

Boston
8 Merrimack Street
Lowell, Massachusetts 01852
(617) 454-1582

Hartford
Vernon Circle
Vernon, Connecticut 06086
(203) 643-9619

*** New York**
225 Rt. No. 46
Totowa, New Jersey 07512
(201) 256-4100

Syracuse
60 Oswego Street
Baldwinsville, New York 13027
(315) 458-6672

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6705 Park Avenue
Pennsauken, New Jersey 08110
(609) 662-3047

* Washington

4905 Delray Avenue
Bethesda, Maryland 20014
(301) 654-2545

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3033 Maple Drive, NE
Atlanta, Georgia 30305
(404) 231-4865

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2101 Magnolia Avenue
Birmingham, Alabama 35205
(205) 252-1169

Dallas
8609 Northwest Plaza Dr.
Dallas, Texas 75225
(214) 363-8977

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1614 South Post Oak Road
Houston, Texas 77027
(713) 622-1413

Orlando
5331 W. Colonial Avenue
Orlando, Florida 32808
(305) 295-2635

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*** Chicago**
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Elmhurst, Illinois 60126
(312) 834-8922

Cleveland

25000 Euclid Avenue
Cleveland, Ohio 44117
(216) 732-8007

Dayton

333 W. First Street
Dayton, Ohio 45402
(513) 223-9552

Detroit

24638 Northwestern Hwy.
Southfield, Michigan 48075
(313) 353-2670

Minneapolis

7710 Computer Avenue
Minneapolis, Minnesota 55424
(612) 926-4616

St. Louis

1750 S. Brentwood Blvd.
St. Louis, Missouri 63144
(314) 961-7070

WESTERN

Denver
601 Broadway Street, Suite 107
Denver, Colorado 80203
(303) 244-5473

* Los Angeles

1045 Gayley Avenue
Los Angeles, California 90024
(213) 477-1018

* San Francisco

1291 Fifth Avenue
Belmont, Calif. 94002
(415) 593-1691

Seattle

808 - 106th Avenue, N.E.,
Bellevue, Washington 98004
(206) 454-0662

Hawaii

Computer Products (Pacific) Ltd.
P. O. Box 8615
Honolulu, Hawaii 96815

* Regional Office

IBM COMPUTER SYSTEMS

Specifications

(1) **MATERIALS:** Tape to consist of a base material of Polyester film coated on one side with a strong yet flexible layer of ferro-magnetic material dispersed within a binder.

(2) **TAPE DIMENSIONS:** Tapes specified in various lengths. Up to and including 1225' lengths tolerance to be plus 20' minus 0'. Greater than a 1225' length tolerance to be plus 50' minus 0'. Width of the tape to be 0.498" with a limit of plus or minus 0.002". Total thickness for all tape to be 0.0019" or 0.00142" with a tolerance of plus or minus 0.0003". Base material thickness of 0.00145" or 0.00097" plus or minus 10%. Longitudinal curvature to be less than 3/16 per 36" of tape.

(3) **PHYSICAL REQUIREMENTS:** Oxide surface to be free of manufacturing defects. Surface of base material to be free of powder or accumulation of deleterious matter which would cause incorrect operation or necessitate increased servicing of the machines. Tape not to be spliced.

Tensile strength to be a minimum of 18 pounds for 1.5 Mil and a minimum of 12 pounds for 1.0 Mil backing.

The above "Tape Dimensions" and "Physical Requirements" are based on measurements made under the following conditions:

(A) Tape to be rewound a minimum of three times in succession with 0.51 to 0.66 pounds tension in a room conditioned at 65° to 80° F and 40% to 60% relative humidity.

(B) Tape to be kept under these conditions a minimum of 24 hours before tests are made.

(4) **MAGNETIC PERFORMANCE:** Magnetic performance to be measured on all 7 or 9 channels of an IBM compatible tape drive.

Average peak output, as referred to in these specifications is interpreted as the average amplitude of the voltage envelope, a minimum of 10,000 pulses sensed by the playback head operated in contact with the magnetic tape and having been recorded at 1.5 times, saturation at 800 bpi (non-return to zero method) for catalog "D tapes".

Average peak output, as referred to in these specifications is interpreted as the average amplitude of the voltage envelope, a minimum of 10,000 pulses sensed by the playback head operated in contact

with the magnetic tape and with the write current set for 1 times saturation at 1600 fci, but recorded at 3200 fci (non-return to zero method) for catalog "E tapes".

The magnetic field required for 90% saturation shall not exceed 900 oersteds.

The average peak output of a magnetic tape when compared to an IBM test tape shall not vary more than 5% from the average peak output of an IBM test tape.

No dropout of signal to occur with resultant output less than 50% of average peak output. Using a read head saturated to maximum residual magnetization, no noise signal to be greater than 10% of average peak output level. When testing for noise, tape to be saturated in one direction.

Memorex total surface tested tape is uniformly tested across the full tape width with a sensitivity equivalent to the 7 or 9 channel test.

(5) **STORAGE:** Under storage conditions of 40° to 90° F and 20% to 80% relative humidity, no deterioration of magnetic oxide, binder or base material shall take place, which will prevent the magnetic tape from meeting these specifications.

(6) **MARKERS:** Photo-sensing markers to be attached to magnetic tape as follows:

Photo-sensing marker to be not less than one inch in length. Width of marker to be 3/16" with a limit of plus or minus 1/32". Marker to consist of a transparent plastic base material with a uniform thickness of 0.0005" with a limit of plus or minus 0.0001". Vaporized aluminum coating to be sandwiched between the base and a thin layer of a pressure-sensitive, thermal setting, low cold flow adhesive.

Markers to be attached to base (uncoated) side of tape with one inch dimension parallel to edge of tape. One marker to be placed 14' with a tolerance of plus 1' or minus 0' from end of tape nearest hub of reel. Marker to be not more than 1/32" from track C edge of tape.

A second marker to be attached 10' with a tolerance of plus 5' or minus 0' from other end of tape. This marker is to be not more than 1/32" from track one (1) edge of tape. Markers not to extend beyond edge of tape. Markers to be firmly attached to tape and free of wrinkles. No adhesive material to extend beyond edge of markers.

Branch Sales / Engineering Offices are located at:

NORTHEAST

Boston
8 Merrimack Street
Lowell, Massachusetts 01852
(617) 454-1582

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Vernon, Connecticut 06086
(203) 643-9619

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(206) 454-0662

Hawaii

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★ Regional Office

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Germany

Memorex GmbH
Norbertstrasse 3
Cologne 5, West Germany

England

Memorex Precision Products, Ltd.
St. Ives House, St. Ives Road
Maidenhead, Berkshire, England

Sweden

MEMOREX A. B.
Brunsvagen 4B
Enebyberg, Sweden

France

Memorex S. A. R. L.
5, Rue des Colonnes du Trone
Paris 12, France

Norway

MEMOREX A. S.
Motzfeldgate 26
Oslo, Norway

HEAVY DUTY LONG WEARING TAPE-IBM COMPATIBLE**22**

Tapes listed below include tape and control devices wound on an aluminum hub reel, and packed in a dust-free round plastic container. Specify color desired.

SIZE: $\frac{1}{2}$ " x 1225'	QUANTITY							
	1-9	10-19	20-49	50-99	100-149	150-299	300-499	500-999
800 BPI (22D-HF-1431C-A1)				\$19.00	Any Quantity			
800 BPI-Total Surface Tested (22F-HF-1431C-A1)				21.00	Any Quantity			
3200 FCI-Total Surface Tested (22E-HF-1431C-A1)				23.00	Any Quantity			

SIZE: $\frac{1}{2}$ " x 2450'

800 BPI (22D-HJ-3431C-A1)	\$37.50	\$36.75	\$36.25	\$35.50	\$34.75	\$34.25	\$34.00	\$33.75
800 BPI-Total Surface Tested (22F-HJ-3431C-A1)	41.50	40.75	40.25	39.50	38.75	38.25	38.00	37.75
3200 FCI-Total Surface Tested (22E-HJ-3431C-A1)	43.50	42.75	42.25	41.50	40.75	40.25	40.00	39.75

Tapes listed below include tape and control devices, wound on an aluminum hub reel and packed in a Wright-Line Tape-Seal. Sealed in a poly bag and placed in a shipping carton (standard plastic case not included). Specify color desired.

SIZE: $\frac{1}{2}$ " x 1225'	QUANTITY							
	1-9	10-19	20-49	50-99	100-149	150-299	300-499	500-999
800 BPI (22D-HF-1431W-A1)				\$18.00	Any Quantity			
800 BPI-Total Surface Tested (22F-HF-1431W-A1)				\$20.00	Any Quantity			
3200 FCI-Total Surface Tested (22E-HF-1431W-A1)				\$22.00	Any Quantity			

SIZE: $\frac{1}{2}$ " x 2450'

800 BPI (22D-HJ-3431W-A1)	\$36.50	\$35.75	\$35.25	\$34.50	\$33.75	\$33.25	\$33.00	\$32.75
800 BPI-Total Surface Tested (22F-HJ-3431W-A1)	40.50	39.75	39.25	38.50	37.75	37.25	37.00	36.75
3200 FCI-Total Surface Tested (22E-HJ-3431W-A1)	42.50	41.75	41.25	40.50	39.75	39.25	39.00	38.75

Tapes listed below include tape and control devices, wound on an aluminum hub reel, and packed in a Lexan wrap-around. Sealed in a poly bag and placed in a shipping carton (standard plastic case not included). Specify color desired.

SIZE: $\frac{1}{2}$ " x 2450'	QUANTITY							
	1-9	10-19	20-49	50-99	100-149	150-299	300-499	500-999
800 BPI (22D-HJ-3431K-A1)	\$37.50	\$36.75	\$36.25	\$35.50	\$34.75	\$34.25	\$34.00	\$33.75
800 BPI-Total Surface Tested (22F-HJ-3431K-A1)	41.50	40.75	40.25	39.50	38.75	38.25	38.00	37.75
3200 FCI-Total Surface Tested (22E-HJ-3431K-A1)	43.50	42.75	42.25	41.50	40.75	40.25	40.00	39.75

TERMS

Net 30 days.

TRANSPORTATION CHARGES

Prices include transportation charges prepaid to any destination within the 50 states via lowest cost transportation. Title passes from Memorex to customer at point of shipment.

TAXES Prices shown in this price list do not include any applicable state or local taxes.

Warranty

Memorex warrants that new magnetic tape purchased in accordance with this price list conforms to and meets the magnetic and electrical specifications for the standard reference provided by the computer manufacturer, and that new magnetic tape purchased in accordance with this price list shall be free of any manufacturing defect, under the normal use and service for which it was designed. Memorex's obligation pursuant to this warranty shall be as follows:

(1) DAMAGED TAPE: There will be no replacement of tape damaged by either: (A) Improper handling by user personnel, (B) machine damage or (C) User non-conformance with humidity, temperature, or other storage and operating standards set forth in the Memorex specification.

(2) DEFECTIVE TAPE: A defective magnetic tape is one (other than damaged tape) which does not meet the Memorex specification.

It is recognized that the use of magnetic tape is under the exclusive control of the user, and, that it is the duty and responsibility of the user to detect promptly and report immediately to Memorex, any tape that does not meet the Memorex specifications. The user will establish reasonable controls and make effective use of available machine and program corrective features, so that defects in the tape will be detected promptly and the necessity for reprocessing data minimized.

ASSORTING PRIVILEGES

All Memorex Computer Tapes are assortable for quantity prices.

DELIVERY

Quantities to 50 reels available from stock. Allow 10 days for larger quantities.

ORDERS

All orders should be addressed to the nearest Memorex office listed.

In lieu of all other warranties, express or implied, Memorex warrants that new magnetic tape purchased in accordance with this price list shall be free of any manufacturing defect, under the normal use and service for which it was designed, for a period of one year from date of shipment from Santa Clara, California. In the event that the user determines that a manufacturing defect exists during this warranty period, he will report and return to Memorex at Santa Clara, California, the tape in question.

Memorex will retest such tape promptly. If it is determined that the tape fails to meet the Memorex specifications, Memorex will replace the tape, reel for reel, on an exchange basis and assume transportation charges (both ways) necessitated by such replacement.

If Memorex determines that the tape either meets the Memorex specifications or has been damaged by the user, or by the user's equipment, the tape will be returned to the user and the user will assume the transportation charges (both ways) therefor provided.

Memorex Corporation's only liability for defective tape damages will be as specified above. The warranty expressed herein is in lieu of all other warranties, express or implied, and no other affirmation of fact or promise made by Memorex by word or action shall constitute a warranty. This warranty shall terminate with respect to each reel of tape one year and one day from date of shipment from Santa Clara, California.

Branch Sales / Engineering Offices are located at:

NORTHEAST

Boston
8 Merrimack Street
Lowell, Massachusetts 01852
(617) 454-1582

Hartford

Edwards Office Bldg., Vernon Circle
Vernon, Connecticut 06086
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Belmont, Calif. 94002
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Hawaii

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P. O. Box 8615
Honolulu, Hawaii 96815

* Regional Office

EUROPEAN OFFICES AND AFFILIATES ARE LOCATED AT:

Belgium
Memorex S.A.
Centre International Rogier
Bureau 725
Brussels 1, Belgium

England
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St. Ives House, St. Ives Road
Maidenhead, Berkshire, England

France
Memorex S.A.R.L.
5, Rue des Colonnes du Trone
Paris 12, France

Germany
Memorex GmbH
Norbertstrasse 3
Cologne 5, West Germany

MEMOREX

LONG WEAR, HEAVY-DUTY COMPUTER TAPE
TYPE 22 PRICE LIST

COMPUTER TAPE FOR RCA 301 COMPUTER SYSTEMS, RCA 381 TAPE DRIVES

Tapes tested and certified for use at 556 bits per inch. Price includes tape and control devices, wound on plastic reel, and packed in dust-free round plastic container or a plastic snap-on-band.

SIZE	CATALOG NUMBER	QUANTITY	PRICE PER REEL
½" x 1225'	22C - HF - 5100C - R1	1 - 1999	\$26.00
Packed in a seal-tight, clear plastic case.			
½" x 1225'	22C - HF - 5100K - R1	1 - 1999	\$24.00
Edge of reel is covered with a plastic snap-on band (no plastic case).			

ITEM	CATALOG NUMBER	SIZE	PRICE
ACCESSORIES	REEL	5100B	½" x 8"
	CASE	½ x 8 — 00C	½" x 8"
	SNAP BAND	½ x 8 — 00K	½" x 8"

TERMS: Net 30 days

TRANSPORTATION CHARGES: Prices include transportation charges prepaid to any destination within the 50 states via lowest cost transportation. Title passes from Memorex to customer at point of shipment.

Prices shown are subject to change without notice.

TAXES: Prices shown in this price list do not include any applicable state or local taxes.

ASSORTING PRIVILEGES: All Memorex computer tapes are assortable for quantity price.

ORDERS: All orders should be addressed to the nearest Memorex office listed.

Warranty

Memorex warrants that new magnetic tape purchased in accordance with this price list conforms to and meets the magnetic and electrical specifications for the standard reference provided by the computer manufacturer, and that new magnetic tape purchased in accordance with this price list shall be free of any manufacturing defect, under the normal use and service for which it was designed. Memorex's obligation pursuant to this warranty shall be as follows:

(1) Damaged Tape: There will be no replacement of tape damaged due to either: (a) improper handling by user personnel, (b) machine damage, or (c) user non-conformance with humidity, temperature, or other storage and operating standards set forth in the Memorex specifications.

(2) Defective Tape: A defective magnetic tape is one (other than a damaged tape) which does not meet the Memorex specifications.

It is recognized that the use of magnetic tape is under the exclusive control of the User and that it is the duty and responsibility of the User to detect promptly and report immediately to Memorex any tape that, in his opinion, does not meet the Memorex specifications. Such detection and reporting must be made following completion of the first "read-pass". The User will establish reasonable controls and make effective use of available machine and program corrective fea-

tures, so that defects in the tape will be detected promptly and the necessity for reprocessing data minimized.

The User will report and return to Memorex at Santa Clara, California, Memorex tape which, in his opinion, does not meet the Memorex specifications. Memorex will retest such tape promptly. If it is determined that the tape fails to meet the Memorex specifications, Memorex:

- (a) will replace the tape, reel for reel, on an exchange basis and assume the transportation charges (both ways) necessitated by such replacement.

If Memorex determines that the tape either meets the Memorex specifications, or has been damaged by the User, or his equipment, the tape will be returned to the User and the User will assume the transportation charges (both ways therefor provided).

The remedies for breach of warranty, set forth herein, are the sole and exclusive remedies of the User, and in no event shall Memorex be liable to the User for damages of any kind other than specified herein. The warranty expressed herein is in lieu of all other warranties, express or implied, and no other affirmation of fact or promise made by Memorex by word or action shall constitute a warranty.

This warranty shall terminate with respect to each reel of tape following completion of the first "read-pass" of such tape.

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EUROPEAN OFFICES AND AFFILIATES ARE LOCATED AT:

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***Regional Office**

Germany
Memorex GmbH
Norbertstrasse 3
Cologne 5, West Germany

MEMOREX

LONG WEAR, HEAVY-DUTY COMPUTER TAPE
TYPE 22 PRICE LIST

COMPUTER TAPE FOR RCA 501 COMPUTER SYSTEMS, RCA 581 TAPE DRIVES

Price includes tape and control devices, wound on plastic reel, and packed in dust-free round plastic container.

SIZE	CATALOG NUMBER	QUANTITY	PRICE PER REEL
3/4" x 2400'	22U - LI - 5110C - R2	1 - 749 750 - 1499	\$60.00 \$58.15

ITEM	CATALOG NUMBER	SIZE	PRICE
ACCESSORIES	5110B	3/4" x 10 1/2"	\$4.50 ea.
CASE	3/4 x 10 1/2 — 00C	3/4" x 10 1/2"	\$4.75 ea.

TERMS: Net 30 days

TRANSPORTATION CHARGES: Prices include transportation charges prepaid to any destination within the 50 states via lowest cost transportation. Title passes from Memorex to customer at point of shipment.

Prices shown are subject to change without notice.

TAXES: Prices shown in this price list do not include any applicable state or local taxes.

ASSORTING PRIVILEGES: All Memorex computer tapes are assortable for quantity price.

ORDERS: All orders should be addressed to the nearest Memorex office listed.

Warranty

Memorex warrants that new magnetic tape purchased in accordance with this price list conforms to and meets the magnetic and electrical specifications for the standard reference provided by the computer manufacturer, and that new magnetic tape purchased in accordance with this price list shall be free of any manufacturing defect, under the normal use and service for which it was designed. Memorex's obligation pursuant to this warranty shall be as follows:

(1) Damaged Tape: There will be no replacement of tape damaged due to either: (a) improper handling by user personnel, (b) machine damage, or (c) user non-conformance with humidity, temperature, or other storage and operating standards set forth in the Memorex specifications.

(2) Defective Tape: A defective magnetic tape is one (other than a damaged tape) which does not meet the Memorex specifications.

It is recognized that the use of magnetic tape is under the exclusive control of the User and that it is the duty and responsibility of the User to detect promptly and report immediately to Memorex any tape that, in his opinion, does not meet the Memorex specifications. Such detection and reporting must be made following completion of the first "read-pass." The User will establish reasonable controls and make effective use of available machine and program corrective fea-

tures, so that defects in the tape will be detected promptly and the necessity for reprocessing data minimized.

The User will report and return to Memorex at Santa Clara, California, Memorex tape which, in his opinion, does not meet the Memorex specifications. Memorex will retest such tape promptly. If it is determined that the tape fails to meet the Memorex specifications, Memorex:

(a) will replace the tape, reel for reel, on an exchange basis and assume the transportation charges (both ways) necessitated by such replacement.

If Memorex determines that the tape either meets the Memorex specifications, or has been damaged by the User, or his equipment, the tape will be returned to the User and the User will assume the transportation charges (both ways therefor provided).

The remedies for breach of warranty, set forth herein, are the sole and exclusive remedies of the User, and in no event shall Memorex be liable to the User for damages of any kind other than specified herein. The warranty expressed herein is in lieu of all other warranties, express or implied, and no other affirmation of fact or promise made by Memorex by word or action shall constitute a warranty.

This warranty shall terminate with respect to each reel of tape following completion of the first "read-pass" of such tape.

Branch Sales / Engineering Offices are located at:

NORTHEAST

Boston
8 Merrimack Street
Lowell, Massachusetts 01852
(617) 454-1582

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Paris 12, France

Germany

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Norbertstrasse 3
Cologne 5, West Germany

MEMOREX

LONG WEAR, HEAVY-DUTY COMPUTER TAPE
TYPE 22 PRICE LIST

COMPUTER TAPE FOR UNIVAC SYSTEMS—UNISERVO II OR II A DRIVES

Tapes tested and certified for use at 556 bits per inch NRZ (Non-Return to Zero). Tape comes sealed in an individual plastic bag and is packed in an outer cardboard shipping container.

SIZE	CATALOG NUMBER	QUANTITY	PRICE PER REEL
$\frac{1}{2}$ " x 2400'	22C - HI - 5042B - U2	1 - 499	\$31.50
		500 - 999	29.60
		1000 - 2999	26.80
Plastic Case	22C - HI - 5042B - U2	Add \$4.00 per reel, all quantities.	

ITEM	CATALOG NUMBER	SIZE	PRICE
ACCESSORIES	REEL	$\frac{1}{2}$ " x $10\frac{1}{2}$ "	\$8.50 ea.
	CASE	$\frac{1}{2}$ " x $10\frac{1}{2}$ " — 00C	\$4.75 ea.

TERMS: Net 30 days

TRANSPORTATION CHARGES: Prices include transportation charges prepaid to any destination within the 50 states via lowest cost transportation. Title passes from Memorex to customer at point of shipment.

Prices shown are subject to change without notice.

TAXES: Prices shown in this price list do not include any applicable state or local taxes.

ASSORTING PRIVILEGES: All Memorex computer tapes are assortable for quantity price.

ORDERS: All orders should be addressed to the nearest Memorex office listed.

Warranty

Memorex warrants that new magnetic tape purchased in accordance with this price list conforms to and meets the magnetic and electrical specifications for the standard reference provided by the computer manufacturer, and that new magnetic tape purchased in accordance with this price list shall be free of any manufacturing defect, under the normal use and service for which it was designed. Memorex's obligation pursuant to this warranty shall be as follows:

(1) Damaged Tape: There will be no replacement of tape damaged due to either: (a) improper handling by user personnel, (b) machine damage, or (c) user non-conformance with humidity, temperature, or other storage and operating standards set forth in the Memorex specifications.

(2) Defective Tape: A defective magnetic tape is one (other than a damaged tape) which does not meet the Memorex specifications.

It is recognized that the use of magnetic tape is under the exclusive control of the User and that it is the duty and responsibility of the User to detect promptly and report immediately to Memorex any tape that, in his opinion, does not meet the Memorex specifications. Such detection and reporting must be made following completion of the first "read-pass." The User will establish reasonable controls and make effective use of available machine and program corrective fea-

tures, so that defects in the tape will be detected promptly and the necessity for reprocessing data minimized.

The User will report and return to Memorex at Santa Clara, California, Memorex tape which, in his opinion, does not meet the Memorex specifications. Memorex will retest such tape promptly. If it is determined that the tape fails to meet the Memorex specifications, Memorex:

(a) will replace the tape, reel for reel, on an exchange basis and assume the transportation charges (both ways) necessitated by such replacement.

If Memorex determines that the tape either meets the Memorex specifications, or has been damaged by the User, or his equipment, the tape will be returned to the User and the User will assume the transportation charges (both ways therefor provided).

The remedies for breach of warranty, set forth herein, are the sole and exclusive remedies of the User, and in no event shall Memorex be liable to the User for damages of any kind other than specified herein. The warranty expressed herein is in lieu of all other warranties, express or implied, and no other affirmation of fact or promise made by Memorex by word or action shall constitute a warranty.

This warranty shall terminate with respect to each reel of tape following completion of the first "read-pass" of such tape.

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Germany

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Cologne 5, West Germany

MEMOREX

LONG WEAR, HEAVY-DUTY COMPUTER TAPE
TYPE 22 PRICE LIST

COMPUTER TAPE FOR UNIVAC SYSTEMS—UNISERVO III OR IIIA DRIVES

Tapes for use at 1000 bits per inch wound on plastic or metal reel, and packed in a dust-free round plastic container. Univac Part Number 3525178.

SIZE	REEL	CATALOG NUMBER	QUANTITY			
			1 - 99	100 - 499	500 - 999	1000+
1/2" x 2400' On 1.5 Mil Base	10 1/2" Fibre-Fill	22U-HI-5040C-U3	\$46.50	\$44.50	\$42.50	\$40.50
1/2" x 1800' On 1 Mil Base	10 1/2" Fibre-Fill	22U-GH-5040C-U3	31.50	30.00	28.50	27.00
1/2" x 3600' On 1 Mil Base	10 1/2" Fibre-Fill	22U-GM-5040C-U3	53.25	51.25	49.25	47.25

ACCESSORIES	ITEM	CATALOG NUMBER	SIZE	PRICE
	10 1/2" Fibre-Fill Reel	5040B	1/2" x 10 1/2"	\$7.50
	10 1/2" Case	1/2 x 10 1/2 - 00C	1/2" x 10 1/2"	\$4.75

TERMS: Net 30 days

TRANSPORTATION CHARGES: Prices include transportation charges prepaid to any destination within the 50 states via lowest cost transportation. Title passes from Memorex to customer at point of shipment.

Prices shown are subject to change without notice.

TAXES: Prices shown in this price list do not include any applicable state or local taxes.

ASSORTING PRIVILEGES: All Memorex computer tapes are assortable for quantity price.

ORDERS: All orders should be addressed to the nearest Memorex office listed.

Warranty

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This warranty shall terminate with respect to each reel of tape following completion of the first "read-pass" of such tape.

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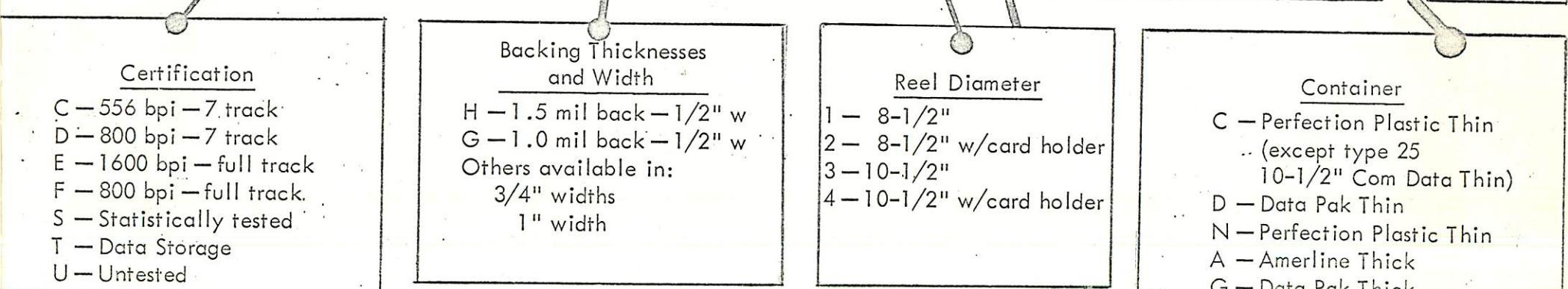
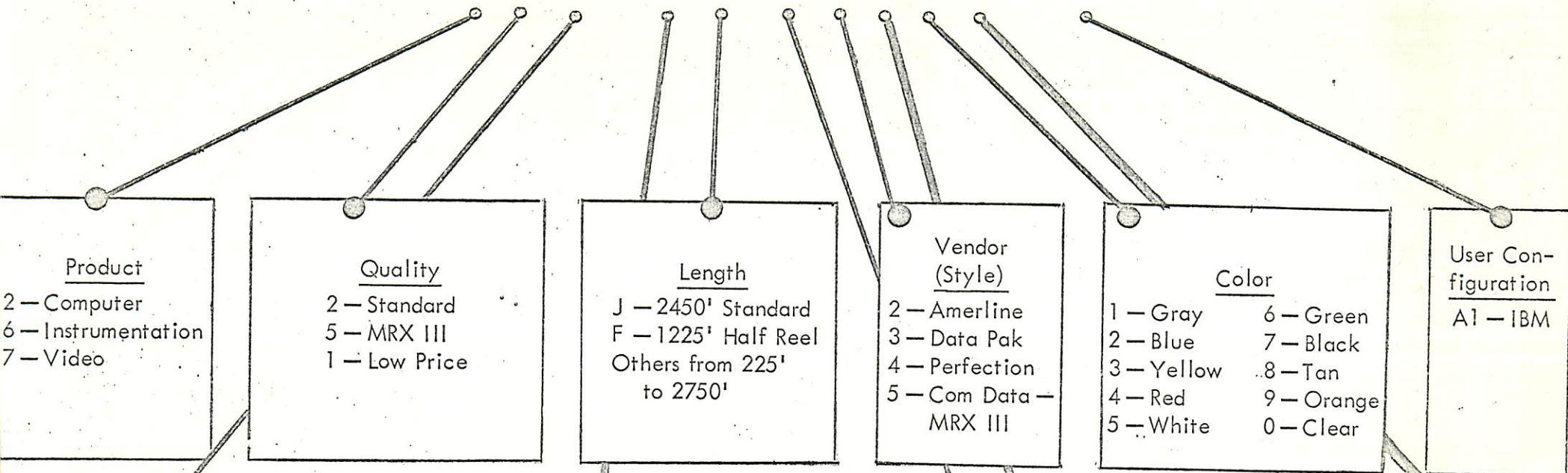
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5, Rue des Colonnes du Trone
Paris 12, France

25 D-HJ-3512C-A1



	<u>Flanges</u>		
	<u>Back Flange</u>	<u>Front Flange</u>	<u>Ring Label</u>
1	white	clear/solid	color
2	white	white/window	color
3	color	clear/solid	white-logo
4	color	color/window	white-logo
5	color	clear/solid	white/plain
6	color	color/window	white/plain

MRX-III ULTRA-DURABLE TAPE-IBM COMPATIBLE

25

Tapes listed below include tape and control devices wound on an aluminum hub reel, and packed in a dust-free round plastic container. Specify color-coding.

SIZE: $\frac{1}{2}$ " x 1225'	QUANTITY							
	1-9	10-19	20-49	50-99	100-149	150-299	300-499	500-999
800 BPI (25D-HF-1510C-A1)				\$21.00	Any Quantity			
800 BPI-Total Surface Tested (25F-HF-1510C-A1)				\$23.00	Any Quantity			
3200 FCI-Total Surface Tested (25E-HF-1510C-A1)				\$25.00	Any Quantity			
SIZE: $\frac{1}{2}$ " x 2450'								
800 BPI (25D-HJ-3510C-A1)	\$39.50	\$38.75	\$38.25	\$37.50	\$36.75	\$36.25	\$36.00	\$35.75
800 BPI-Total Surface Tested (25F-HJ-3510C-A1)	43.50	42.75	42.25	41.50	40.75	40.25	40.00	39.75
3200 FCI-Total Surface Tested (25E-HJ-3510C-A1)	45.50	44.75	44.25	43.50	42.75	42.25	42.00	41.75

Tapes listed below include tape and control devices, wound on an aluminum hub reel and packed in a Wright-Line Tape-Seal. Sealed in a poly bag and placed in a shipping carton (standard plastic case not included). Specify color-coding.

SIZE: $\frac{1}{2}$ " x 1225'	QUANTITY							
	1-9	10-19	20-49	50-99	100-149	150-299	300-499	500-999
800 BPI (25D-HF-1510W-A1)				\$20.00	Any Quantity			
800 BPI-Total Surface Tested (25F-HF-1510W-A1)				\$22.00	Any Quantity			
3200 FCI-Total Surface Tested (25E-HF-1510W-A1)				\$24.00	Any Quantity			
SIZE: $\frac{1}{2}$ " x 2450'								
800 BPI (25D-HJ-3510W-A1)	\$38.50	\$37.75	\$37.25	\$36.50	\$35.75	\$35.25	\$35.00	\$34.75
800 BPI-Total Surface Tested (25F-HJ-3510W-A1)	42.50	41.75	41.25	40.50	39.75	39.25	39.00	38.75
3200 FCI-Total Surface Tested (25E-HJ-3510W-A1)	44.50	43.75	43.25	42.50	41.75	41.25	41.00	40.75

Tapes listed below include tape and control devices, wound on an aluminum hub reel, and packed in a Lexan wrap-around. Sealed in a poly bag and placed in a shipping carton (standard plastic case not included). Specify color-coding.

SIZE: $\frac{1}{2}$ " x 2450'	QUANTITY							
	1-9	10-19	20-49	50-99	100-149	150-299	300-499	500-999
800 BPI (25D-HJ-3510K-A1)	\$39.50	\$38.75	\$38.25	\$37.50	\$36.75	\$36.25	\$36.00	\$35.75
800 BPI-Total Surface Tested (25F-HJ-3510K-A1)	43.50	42.75	42.25	41.50	40.75	40.25	40.00	39.75
3200 FCI-Total Surface Tested (25E-HJ-3510K-A1)	45.50	44.75	44.25	43.50	42.75	42.25	42.00	41.75

TERMS

Net 30 days.

TRANSPORTATION CHARGES

Prices include transportation charges prepaid to any destination within the 50 states via lowest cost transportation. Title passes from Memorex to customer at point of shipment.

TAXES Prices shown in this price list do not include any applicable state or local taxes.

ASSORTING PRIVILEGES

All Memorex Computer Tapes are assortable for quantity prices.

DELIVERY

Quantities to 50 reels available from stock. Allow 10 days for larger quantities.

ORDERS

All orders should be addressed to the nearest Memorex office listed.

Warranty

Memorex warrants that new magnetic tape purchased in accordance with this price list conforms to and meets the magnetic and electrical specifications for the standard reference provided by the computer manufacturer, and that new magnetic tape purchased in accordance with this price list shall be free of any manufacturing defect, under the normal use and service for which it was designed. Memorex's obligation pursuant to this warranty shall be as follows:

(1) DAMAGED TAPE: There will be no replacement of tape damaged by either: (A) Improper handling by user personnel, (B) machine damage or (C) User non-conformance with humidity, temperature, or other storage and operating standards set forth in the Memorex specification.

(2) DEFECTIVE TAPE: A defective magnetic tape is one (other than damaged tape) which does not meet the Memorex specification.

It is recognized that the use of magnetic tape is under the exclusive control of the user, and, that it is the duty and responsibility of the user to detect promptly and report immediately to Memorex, any tape that does not meet the Memorex specifications. The user will establish reasonable controls and make effective use of available machine and program corrective features, so that defects in the tape will be detected promptly and the necessity for reprocessing data minimized.

In lieu of all other warranties, express or implied, Memorex warrants that new magnetic tape purchased in accordance with this price list shall be free of any manufacturing defect, under the normal use and service for which it was designed, for a period of three years from date of shipment from Santa Clara, California. In the event that the user determines that a manufacturing defect exists during this warranty period, he will report and return to Memorex at Santa Clara, California, the tape in question.

Memorex will retest such tape promptly. If it is determined that the tape fails to meet the Memorex specifications, Memorex will replace the tape, reel for reel, on an exchange basis and assume transportation charges (both ways) necessitated by such replacement.

If Memorex determines that the tape either meets the Memorex specifications or has been damaged by the user, or by the user's equipment, the tape will be returned to the user and the user will assume the transportation charges (both ways) therefor provided.

Memorex Corporation's only liability for defective tape damages will be as specified above. The warranty expressed herein is in lieu of all other warranties, express or implied, and no other affirmation of fact or promise made by Memorex by word or action shall constitute a warranty. This warranty shall terminate with respect to each reel of tape three years and one day from date of shipment from Santa Clara, California.

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(312) 834-8922

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333 W. First Street
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(513) 223-9552

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Southfield, Michigan 48075
(313) 353-2670

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(314) 961-7070

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Denver, Colorado 80203
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Computer Products (Pacific) Ltd.
P. O. Box 8615
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* Regional Office

EUROPEAN OFFICES AND AFFILIATES ARE LOCATED AT:

Belgium
Memorex S.A.
Centre International Rogier
Bureau 725
Brussels 1, Belgium

England
Memorex Precision Products, Ltd.
St. Ives House, St. Ives Road
Maidenhead, Berkshire, England

France
Memorex S.A.R.L.
5, Rue des Colonnes du Trone
Paris 12, France

Germany
Memorex GmbH
Norbertstrasse 3
Cologne 5, West Germany

MRX-III ULTRA-DURABLE TAPE-IBM COMPATIBLE

25

Tapes listed below include tape and control devices wound on an aluminum hub reel, and packed in a dust-free round plastic container. Specify color-coding.

	QUANTITY					
SIZE: 1/2" x 1225'	1-149	150-499	500-999	1000-1999	2000-2999	3000+
800 BPI (25D-HF-1510C-A1)	\$18.75	\$18.25	\$18.00	\$17.00	\$16.00	\$15.00
800 BPI-Total Surface Tested (25F-HF-1510C-A1)	20.75	20.25	20.00	19.00	18.00	17.00
3200 FCI-Total Surface Tested (25E-HF-1510C-A1)	21.75	21.25	21.00	20.00	19.00	18.00
SIZE: 1/2" x 2450'						
800 BPI (25D-HJ-3510C-A1)	\$30.25	\$29.00	\$28.50	\$27.00	\$25.50	\$24.00
800 BPI-Total Surface Tested (25F-HJ-3510C-A1)	34.25	33.00	32.50	31.00	29.50	28.00
3200 FCI-Total Surface Tested (25E-HJ-3510C-A1)	36.25	35.00	34.50	33.00	31.50	30.00

Tapes listed below include tape and control devices, wound on an aluminum hub reel, and packed in a Wright-Line Tape-Seal. Sealed in a poly bag and placed in a shipping carton (standard plastic case not included). Specify color-coding.

	QUANTITY					
SIZE: 1/2" x 1225'	1-149	150-499	500-999	1000-1999	2000-2999	3000+
800 BPI (25D-HF-1510W-A1)	\$18.00	\$17.75	\$17.50	\$16.50	\$15.50	\$14.50
800 BPI-Total Surface Tested (25F-HF-1510W-A1)	19.25	19.25	19.00	18.50	17.50	16.50
3200 FCI-Total Surface Tested (25E-HF-1510W-A1)	20.25	20.25	20.00	19.50	18.50	17.50
SIZE: 1/2" x 2450'						
800 BPI (25D-HJ-3510W-A1)	\$29.25	\$28.00	\$27.50	\$26.00	\$24.50	\$23.00
800 BPI-Total Surface Tested (25F-HJ-3510W-A1)	33.25	32.00	31.50	30.00	28.50	27.00
3200 FCI-Total Surface Tested (25E-HJ-3510W-A1)	35.25	34.00	33.50	32.00	30.50	29.00

Tapes listed below include tape and control devices, wound on an aluminum hub reel, and packed in a Lexan wrap-around. Sealed in a poly bag and placed in a shipping carton (standard plastic case not included). Specify color-coding.

	QUANTITY					
SIZE: 1/2" x 2450'	1-149	150-499	500-999	1000-1999	2000-2999	3000+
800 BPI (25D-HJ-3510K-A1)	\$30.25	\$29.00	\$28.50	\$27.00	\$25.50	\$24.00
800 BPI-Total Surface Tested (25F-HJ-3510K-A1)	34.25	33.00	32.50	31.00	29.50	28.00
3200 FCI-Total Surface Tested (25E-HJ-3510K-A1)	36.25	35.00	34.50	33.00	31.50	30.00

TERMS

Net 30 days.

TRANSPORTATION CHARGES

Prices include transportation charges prepaid to any destination within the 50 states via lowest cost transportation. Title passes from Memorex to customer at point of shipment.

TAXES Prices shown in this price list do not include any applicable state or local taxes.

Warranty

Memorex warrants that new magnetic tape purchased in accordance with this price list conforms to and meets the magnetic and electrical specifications for the standard reference provided by the computer manufacturer, and that new magnetic tape purchased in accordance with this price list shall be free of any manufacturing defect, under the normal use and service for which it was designed. Memorex's obligation pursuant to this warranty shall be as follows:

(1) DAMAGED TAPE: There will be no replacement of tape damaged by either: (A) Improper handling by user personnel, (B) machine damage or (C) User non-conformance with humidity, temperature, or other storage and operating standards set forth in the Memorex specification.

(2) DEFECTIVE TAPE: A defective magnetic tape is one (other than damaged tape) which does not meet the Memorex specification.

It is recognized that the use of magnetic tape is under the exclusive control of the user, and, that it is the duty and responsibility of the user to detect promptly and report immediately to Memorex, any tape that does not meet the Memorex specifications. The user will establish reasonable controls and make effective use of available machine and program corrective features, so that defects in the tape will be detected promptly and the necessity for reprocessing data minimized.

ASSORTING PRIVILEGES

All Memorex Computer Tapes are assortable for quantity prices.

DELIVERY

Quantities to 50 reels available from stock. Allow 10 days for larger quantities.

ORDERS

All orders should be addressed to the nearest Memorex office listed.

In lieu of all other warranties, express or implied, Memorex warrants that new magnetic tape purchased in accordance with this price list shall be free of any manufacturing defect, under the normal use and service for which it was designed, for a period of three years from date of shipment from Santa Clara, California. In the event that the user determines that a manufacturing defect exists during this warranty period, he will report and return to Memorex at Santa Clara, California, the tape in question.

Memorex will retest such tape promptly. If it is determined that the tape fails to meet the Memorex specifications, Memorex will replace the tape, reel for reel, on an exchange basis and assume transportation charges (both ways) necessitated by such replacement.

If Memorex determines that the tape either meets the Memorex specifications or has been damaged by the user, or by the user's equipment, the tape will be returned to the user and the user will assume the transportation charges (both ways) therefor provided.

Memorex Corporation's only liability for defective tape damages will be as specified above. The warranty expressed herein is in lieu of all other warranties, express or implied, and no other affirmation of fact or promise made by Memorex by word or action shall constitute a warranty. This warranty shall terminate with respect to each reel of tape three years and one day from date of shipment from Santa Clara, California.

Branch Sales / Engineering Offices are located at:

NORTHEAST

Boston
8 Merrimack Street
Lowell, Massachusetts 01852
(617) 454-1582

Hartford

Edwards Office Bldg., Vernon Circle
Vernon, Connecticut 06086
(203) 643-9619

* New York

225 Rt. No. 46
Totowa, New Jersey 07512
(201) 256-4100

Syracuse

60 Oswego Street
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(315) 458-6672

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* Regional Office

HEAVY DUTY LONG WEARING TAPE-IBM COMPATIBLE

22

Tapes listed below include tape and control devices wound on an aluminum hub reel, and packed in a dust-free round plastic container. Specify color desired.

SIZE: $\frac{1}{2}$ " x 1225'	QUANTITY					
	1-149	150-499	500-999	1000-1999	2000-2999	3000+
800 BPI (22D-HF-1431C-A1)	\$17.50	\$17.50	\$17.00	\$16.00	\$15.00	\$14.00
800 BPI-Total Surface Tested (22F-HF-1431C-A1)	18.75	18.75	18.50	18.00	17.00	16.00
3200 FCI-Total Surface Tested (22E-HF-1431C-A1)	19.75	19.75	19.50	19.00	18.00	17.00
SIZE: $\frac{1}{2}$ " x 2450'	QUANTITY					
	1-149	150-499	500-999	1000-1999	2000-2999	3000+
800 BPI (22D-HJ-3431C-A1)	\$28.25	\$27.00	\$26.50	\$25.00	\$23.50	\$22.00
800 BPI-Total Surface Tested (22F-HJ-3431C-A1)	32.25	31.00	30.50	29.00	27.50	26.00
3200 FCI-Total Surface Tested (22E-HJ-3431C-A1)	34.25	33.00	32.50	31.00	29.50	28.00

Tapes listed below include tape and control devices, wound on an aluminum hub reel and packed in a Wright-Line Tape-Seal. Sealed in a poly bag and placed in a shipping carton (standard plastic case not included). Specify color desired.

SIZE: $\frac{1}{2}$ " x 1225'	QUANTITY					
	1-149	150-499	500-999	1000-1999	2000-2999	3000+
800 BPI (22D-HF-1431W-A1)	\$15.75	\$15.75	\$15.50	\$15.25	\$14.50	\$13.50
800 BPI-Total Surface Tested (22F-HF-1431W-A1)	17.00	17.00	16.75	16.50	16.50	15.50
3200 FCI-Total Surface Tested (22E-HF-1431W-A1)	18.00	18.00	17.75	17.50	17.50	16.50
SIZE: $\frac{1}{2}$ " x 2450'	QUANTITY					
	1-149	150-499	500-999	1000-1999	2000-2999	3000+
800 BPI (22D-HJ-3431W-A1)	\$27.25	\$26.00	\$25.50	\$24.00	\$22.50	\$21.00
800 BPI-Total Surface Tested (22F-HJ-3431W-A1)	31.25	30.00	29.50	27.25	26.00	25.00
3200 FCI-Total Surface Tested (22E-HJ-3431W-A1)	33.25	32.00	31.50	29.25	28.00	27.00

Tapes listed below include tape and control devices, wound on an aluminum hub reel, and packed in a Lexan wrap-around. Sealed in a poly bag and placed in a shipping carton (standard plastic case not included). Specify color desired.

SIZE: $\frac{1}{2}$ " x 2450'	QUANTITY					
	1-149	150-499	500-999	1000-1999	2000-2999	3000+
800 BPI (22D-HJ-3431K-A1)	\$28.25	\$27.00	\$26.50	\$25.00	\$23.50	\$22.00
800 BPI-Total Surface Tested (22F-HJ-3431K-A1)	32.25	31.00	30.50	29.00	27.50	26.00
3200 FCI-Total Surface Tested (22E-HJ-3431K-A1)	34.25	33.00	32.50	31.00	29.50	28.00

TERMS

Net 30 days.

TRANSPORTATION CHARGES

Prices include transportation charges prepaid to any destination within the 50 states via lowest cost transportation. Title passes from Memorex to customer at point of shipment.

TAXES Prices shown in this price list do not include any applicable state or local taxes.

ASSORTING PRIVILEGES

All Memorex Computer Tapes are assortable for quantity prices.

DELIVERY

Quantities to 50 reels available from stock. Allow 10 days for larger quantities.

ORDERS

All orders should be addressed to the nearest Memorex office listed.

Warranty

Memorex warrants that new magnetic tape purchased in accordance with this price list conforms to and meets the magnetic and electrical specifications for the standard reference provided by the computer manufacturer, and that new magnetic tape purchased in accordance with this price list shall be free of any manufacturing defect, under the normal use and service for which it was designed. Memorex's obligation pursuant to this warranty shall be as follows:

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In lieu of all other warranties, express or implied, Memorex warrants that new magnetic tape purchased in accordance with this price list shall be free of any manufacturing defect, under the normal use and service for which it was designed, for a period of one year from date of shipment from Santa Clara, California. In the event that the user determines that a manufacturing defect exists during this warranty period, he will report and return to Memorex at Santa Clara, California, the tape in question.

Memorex will retest such tape promptly. If it is determined that the tape fails to meet the Memorex specifications, Memorex will replace the tape, reel for reel, on an exchange basis and assume transportation charges (both ways) necessitated by such replacement.

If Memorex determines that the tape either meets the Memorex specifications or has been damaged by the user, or by the user's equipment, the tape will be returned to the user and the user will assume the transportation charges (both ways therefor provided).

Memorex Corporation's only liability for defective tape damages will be as specified above. The warranty expressed herein is in lieu of all other warranties, express or implied, and no other affirmation of fact or promise made by Memorex by word or action shall constitute a warranty. This warranty shall terminate with respect to each reel of tape one year and one day from date of shipment from Santa Clara, California.

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P. O. Box 8615
Honolulu, Hawaii 96815

* Regional Office

INTEROFFICE CORRESPONDENCE

TO: Ken Taylor

DATE: 18 March 1968

D.B.

FROM: Don Bench

COPY TO: Cal Strobel

SUBJECT: HELICAL SCAN RECORDERS AND TAPE

In response to your request here is a summary of some of the helical scan video tape recorders now on the market and the tape presently recommended for these recorders by Memorex and 3M.

1/2" helical scan video

Recorder	Tape		
	3M	Mem.	
Concord VTR600	351	79L	Qualified product 79L was qualified on Sony CV2000 as
Craig 6401	351	79L	product for all $\frac{1}{2}$ " helical scan recorders. Exact history unknown.
Panasonic NV7000	351	79L	Rho tape would offer an
Panasonic NV8000	351	79L	approximate 3 db improvement in S/N ratio for all of these recorders over 79L.
Panasonic NV8100	351	79L	"
Shibaden SV700	351	79L	"
Shibaden SV1000	351	79L	"
Shibaden 7624H	351	79L	"
Sony SV300	351	79L	"
Sony CV2000	351	79L	"
Wollensak VTR150	355	79L	No qualified product, but it is assumed that 79L would work.

18 March 1968

1" helical scan video

Recorder	3M	Tape	Mem	
Ampex VR5000	357	79P		Qualified product, history unknown. Product qualified on Ampex VR7000.
Ampex VR6000	357	79P		"
Ampex VR7000	357	79P		"
Ampex VR7500C	357	79P		"
Ampex VR7800	357	79P		"
Dage DV200	351	79P		No qualified product, but it is assumed that 79P would be satisfactory.
Dage DV300	351	79P		"
Diamond Power DP-2	388	79P		"
Diamond Power DP-3	388	79P		"
Ikegami TVR-311	351	79P		"
				(Not sure if this recorder is the same as Westinghouse TG-30-C-17A)
IVC 500	351			New low cost recorder to be available in fall of 1968.
IVC 800	351			No qualified product, 79P will not work due to poor S/N ratio.
Norelco EL3400	351B	79K		Qualified product, history unknown.
Panasonic NV204	351	79P		No qualified product, 79P probably all right.
Precision Inst. PI-3V	350	79P		Qualified product, history unknown.
Precision Inst. PI-4V	350	79P		"

Recorder	3M	Tape	Mem	
Precision Inst.				
P17100	350	79P		Qualified product, history unknown.
Shibaden VRM416				No qualified product
Sony EV200	350	79S		No qualified product, but we are presently shipping 79P as 79S.
Sony EV210	350	79S		The "K" thickness of 79 and 78 tapes both seem to clog on this recorder. 79N has never been evaluated.
Westel WRR101		62J		No qualified product, but they are presently using 62J.
Westel WR201		62J		"
Westel WRR301		62J		"
Westinghouse TG-30-C-17A	351	79K		Qualified product as of May 1967

2" helical scan video

Ampex VR660	350	79V	Qualified product, history unknown.
Ampex VR1500	350	79V	"
Sony PV100	350B	79N	Qualified product. Longitudinally oriented 78V, qualified in
Sony PV120U	350B	79N	October of 1967.

Note - All of the helical scan recorders other than the Ampex VR7000 type, the Westel recorders, and perhaps the Norelco EL3400 would better their S/N ratio by approximately 3 db through the use of a fine particle tape such as Rho.

MEMOREX

PRICE LIST

INSTRUMENTATION AND DIGITAL TAPE FOR USE ON THE LEACH MTR-3200 RECORDER/REPRODUCER

These configurations have been specifically designed for optimum performance on the Leach Corporation MTR-3200 Tape Recorder/Reproducer. A special lightweight precision metal reel is used. Some of the configurations below are provided with beginning and end of tape sensing strips designed to match the tape recorder requirements. All configurations are wound on reels which conform to EIA standards.

CONFIGURATION	DIMENSIONS	TYPE REEL	SENSING STRIPS	QUANTITY			
				1-99	100-249	250-999	1000+
Recommended for use on all extended bandwidth systems (250 kHz)							
62L-GI-6152B-M2	1/2" x 2300'	Precision Metal	Yes	\$34.47	\$33.74	\$32.31	\$31.62
62L-GI-6152B-W1	1/2" x 2300'	Precision Metal	No	32.47	31.74	30.31	29.62
62L-OI-7053B-M3	1" x 2300'	Precision Metal	Yes	57.50	56.33	54.03	52.91
62L-OI-7053B-W1	1" x 2300'	Precision Metal	No	55.50	54.33	52.03	50.91
Recommended for use on all standard bandwidth systems (100 kHz)							
42J-GH-6152B-M2	1/2" x 1800'	Precision Metal	Yes	26.44	25.86	24.74	24.20
42J-GH-6152B-W1	1/2" x 1800'	Precision Metal	No	24.44	23.86	22.74	22.20
42J-OH-7053B-M3	1" x 1800'	Precision Metal	Yes	41.45	40.58	38.89	38.07
42J-OH-7053B-W1	1" x 1800'	Precision Metal	No	39.45	38.58	36.89	36.07
Recommended for use on all NRZ digital systems							
22U-HF-6152B-W1	1/2" x 1225'	Precision Metal	No	37.60	36.05	32.92	32.31
22U-PF-7053B-W1	1" x 1225'	Precision Metal	No	39.60	38.05	34.92	34.31
ACCESSORIES	1/2"	Empty Reel in Box	1/2" x 8"-6152B	QUANTITY		1-5	6+
				17.00	17.00	17.00	17.00
	1"	Empty Reel in Box	1" x 8"-7053B	17.00	17.00	17.00	17.00

TERMS

Net 30 days.

TRANSPORTATION CHARGES

Prices include transportation charges prepaid to any destination within the 50 states via lowest cost transportation. Title passes from Memorex to customer at point of shipment.

TAXES Prices shown in this price list do not include any applicable state or local taxes.

Prices shown are subject to change without notice.

ASSORTING PRIVILEGES

The above Memorex Tapes are assortable for quantity prices.

DELIVERY

Quantities to 50 reels available from stock. Allow 10 days for larger quantities.

ORDERS

All orders should be addressed to the nearest Memorex office listed.

MEMOREX

PRICE LIST

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MEMOREX HELICAL-SCAN VIDEO TAPE

79 SERIES

MEMOREX TYPE 79 Series video tape has been designed for helical-scan broadcast and closed circuit television recorders.

	PLAYING TIME MINUTES	CATALOG NUMBER	REEL AND CONTAINER	TAPE SIZE	INDUSTRIAL- CONSUMER PRICES
Ampex VR-1500 and VR-660 Series Recorders	32	79V-SC-8000B-W2	6½" Plastic Reel in Box	2" x 600'	\$ 30.00
	64	79V-SG-7600B-W2	8" Precision Reel in Box	2" x 1200'	62.00
	128	79V-SK-7620B-W2	10½" Precision Reel in Box	2" x 2400'	110.00
	256	79V-SR-7630B-W2	12½" Precision Reel in Box	2" x 4800'	205.00
Ampex VR-6000 and VR-7000 Series Recorders	31	*79P-OI-7084B-W3	9¾" Precision Reel in Box	1" x 1500'	45.00
	62	*79P-ON-7084B-W3		1" x 3000'	60.00
Norelco EL-3400 Recorders	33	*79K-OI-7080B-W4	9" Precision Reel in Box	1" x 1500'	45.00
	66	*79K-ON-7080B-W4		1" x 3000'	60.00
PI and MVR Series Recorders	16	*79P-OC-7051B-W3	8" Precision Reel in Box	1" x 600'	37.00
	32	*79P-OG-7051B-W3		1" x 1200'	43.00
	64	*79P-OK-7150B-W3	10½" Precision Reel in Box	1" x 2400'	62.00
	96	*79P-OP-7150B-W3		1" x 3600'	82.00
Sony EV 200 Recorders	32	79S-OG-7045B-W3	8" Metal Reel in Box	1" x 1200'	45.00
	64	79S-OK-7045B-W3		1" x 2400'	60.00
Sony PV-120V Recorders	30	79N-SC-7550B-L6	7" Metal Reel in Box	2" x 650'	45.00
	60	79N-SG-7550B-L6		2" x 1300'	62.00
	90	79N-SJ-7550B-L6		2" x 1950'	85.00
Sony, Shibaden, Concord, GE, Panasonic (½" Recorders)	30	79L-GG-6130B-W3	7" Plastic Reel in Box	½" x 1200'	22.00
	60	79L-GK-6130B-W3		½" x 2400'	40.00

*These configurations are also available in dust-proof plastic canisters.

When ordering a canister add \$3.00 to unit price. ("B", tenth character in catalog number, must be changed to "C" when ordering).

	REEL SIZE	CATALOG NUMBER	TYPE	INDUSTRIAL-CONSUMER PRICES
Empty Reels in Box	2" x 6½"	2 x 6½-8000B	Plastic	\$ 2.50
	2" x 8"	2 x 8-7600B	Precision	17.00
	2" x 10½"	2 x 10½-7620B	Precision	17.00
	2" x 12½"	2 x 12½-7630B	Precision	17.00
	1" x 6½"	1 x 6½-7030B	Plastic	2.50
	1" x 8"	1 x 8-7045B	Metal	17.00
	1" x 8"	1 x 8-7051B	Precision	8.50
	1" x 9"	1 x 9-7080B	Precision	9.00
	1" x 9¾"	1 x 9¾-7084B	Precision	9.00
	1" x 10½"	1 x 10½-7150B	Precision	10.00
	½" x 7"	½ x 7-6130B	Plastic	2.00
	2" x 7"	2 x 7-7550B	Metal	17.00

MEMOREX

PRICE LIST

	ITEM	CATALOG NUMBER	SIZE	INDUSTRIAL-CONSUMER PRICES
Containers	Plastic Container	1 x 10½-C-MRX	1" x 10½"	\$ 4.50
	Box	½ x 7-B	½" x 7"	1.50
	Box	2 x 7-B	2 x 7"	1.50
	Box	1 x 8-B	1" x 8"	1.50
	Box	1 x 10½-B	1" x 10½"	1.50
	Box	2 x 10½-B	2" x 10½"	1.50
	Box	2 x 12½-B	2" x 12½"	1.50
	Fiber Mailer	509-080-00	2" x 8"	5.00
	Fiber Mailer	509-080-10	2" x 12½"	5.00

Warranty

Memorex tape is warranted for a period of 90 days to be free from defects in manufacture, labeling, or packaging. Liability is limited to replacement of tape if defective.

There are no other warranties expressed or implied. It shall be the user's responsibility to determine the suitability of the product for his intended use.

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MEMOREX

PRECISION
VIDEO TAPE

MEMOREX CORPORATION / 1180 SHULMAN AVENUE / SANTA CLARA, CALIF. 95052 / (408) 248-3344

MEMOREX MARK I DISC PACK AND ACCESSORIES

MEMOREX MARK I DISC PACK has been specifically designed for operation on IBM 1311 or IBM 2311 Type Disc Drives, or equivalent drives of other manufacturers.

ITEM	CATALOG NUMBER	PRICE
Mark I Disc Pack	13A-AA-XXXXB-B1	\$490.00 each

ACCESSORIES

ITEM	CATALOG NUMBER	PRICE
Memorex Mark I Disc Pack TOP COVER of LEXAN.® Designed for Memorex Mark I Disc Pack but interchangeable with most top covers of IBM Type 1316. Unconditionally warranted against accidental breakage.	130-00-04	\$25.00 each
Memorex Mark I Disc Pack BOTTOM COVER of LEXAN.® Designed for Memorex Mark I Disc Pack but interchangeable with most bottom covers of IBM Type 1316 Disc Packs. Unconditionally warranted against accidental breakage.	130-00-03	10.00 each
Memorex Mark I Disc Pack TRANSPORTER. Custom designed individual disc pack transporter in modern luggage configuration without any special identification to reduce chance of pilferage. Custom molded insert insures adequate disc pack protection against normal shock and vibration. Masculine case will fit under most airline seats. The Memorex TRANSPORTER may also be used for other disc packs.	130-00-54	52.50 each
Memorex BEZEL LABELS have been designed to be inserted inside the disc pack bezel. It is recommended that marking materials should have the capability of being removed with 91% isopropyl alcohol. Erasing of BEZEL LABELS is not recommended due to the possibility of adding contamination into the disc pack. Additional bezel labels may be placed on top of the existing label if changes are needed.	130-00-55	.25 each

®Registered Trade Mark of General Electric Co.

TERMS

Net 30 days.

TRANSPORTATION CHARGES

Prices include transportation charges prepaid to any destination within the 50 states via lowest cost transportation. Title passes from Memorex to customer at point of shipment.

Prices shown are subject to change without notice.

TAXES

Prices shown in this list do not include any applicable state or local taxes.

DELIVERY

Please consult your nearest Memorex Sales Office.

ORDERS

All orders should be addressed to the nearest Memorex office listed.

Warranty

Memorex warrants the Memorex MARK I Disc Pack for any defects in materials and workmanship for a period of four months after delivery. Memorex will replace at no charge

any disc pack under the warranty, provided there is adequate evidence of the disc pack having a manufacturing or material defect.

Branch Sales / Engineering Offices are located at:

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DELIVERY
Quantities to 50 reels available from stock. Allow 10 days for larger quantities.

ORDERS
All orders should be addressed to the nearest Memorex office listed.

TAXES Prices shown in this price list do not include any applicable state or local taxes.

TRANSPORTATION CHARGES
Prices include transportation charges prepaid to any destination within the 50 states via lowest cost transportation. Title passes from Memorex to customer at point of shipment.

TERMS
Net 30 days.

ASSORTING PRIVILEGES

NOTE: The new Memorex moisture-proof, dust-proof plastic shipping container is available in lieu of the standard cardboard box. Price for this item will be \$10.00 each, when ordered with video tape and \$15.00 each when ordered separately.

NOMINAL LENGTH	CATALOG NUMBER	PLAYING TIME IN MINUTES (AT 15 IPS)	TYPE REEL	INDUSTRIAL-CONSUMER PRICES	
				1.5	6+
2" x 1200',	77V-SG-7620B-L3	18	10 1/2" Precision	\$ 66.55	\$ 60.48
2" x 2400',	77V-SK-7630B-L3	34	12 1/2" Precision	116.56	106.85
2" x 2600',	77V-SM-7630B-L3	36	12 1/2" Precision	130.73	118.22
2" x 3600',	77V-SP-7630B-L3	50	12 1/2" Precision	167.13	153.12
2" x 4800',	77V-SR-7630B-L3	66	12 1/2" Precision	217.52	199.40
2" x 5400',	77V-SS-7630B-L3	74	12 1/2" Precision	247.33	226.72
2" x 7200',	77V-ST-7640B-L3	98	14" Precision	330.01	305.42
ACCESORIES					
2 x 8-B	8" Empty Box	1.53	1.38	1.38	1.38
2 x 10 1/2-B	10 1/2" Empty Box	1.53	1.38	1.38	1.38
2 x 12 1/2-B	12 1/2" Empty Box	1.53	1.38	1.38	1.38
2 x 14-B	14" Empty Box	1.53	1.38	1.38	1.38
2 x 14 1/2-B	14 1/2" Empty Box	1.53	1.38	1.38	1.38
2 x 14-B	14" Metal Reel & Box	17.00	12.20	12.20	12.20
2 x 14.7640B	14" Metal Reel & Box	17.00	12.20	12.20	12.20
2 x 12 1/2-7630B	12 1/2" Metal Reel & Box	17.00	12.20	12.20	12.20
2 x 10 1/2-7620B	10 1/2" Metal Reel & Box	17.00	12.20	12.20	12.20
2 x 8.7600B	8" Metal Reel & Box	17.00	12.20	12.20	12.20
2 x 6 1/2-8000B	6 1/2" Plastic Reel & Box	2.75	2.30	2.30	2.30
INDUSTRIAL-CONSUMER PRICES					
CATALOG NUMBER					
ACCESORIES					

requiring two-inch wide tape.

MEMOREX TYPE 77V TAPE has been specifically designed for transverse-scan broadcast and closed circuit television recorders

Warranty:

Memorex tape is warranted for a period of 90 days to be free from defects in manufacture, labeling, or packaging. Liability is limited to replacement of tape if defective.

There are no other warranties express or implied. It shall be the user's responsibility to determine the suitability of the product for his intended use.

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Paris 12, France

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Cologne 5, West Germany

NOMINAL	CATALOG NUMBER	PLAYING TIME IN MINUTES (AT 15 IPS)	TYPE REEL	INDUSTRIAL-CONSUMER	
				PRICES	LENGHT
2" x 1200,	78V-SG-7620B-L3	18	10½" Precision	\$ 68.01	\$ 62.35
2" x 2400,	78V-SK-7630B-L3	34	12½" Precision	120.16	110.15
2" x 3600,	78V-SM-7630B-L3	36	12½" Precision	134.77	121.88
2" x 4800,	78V-SP-7630B-L3	50	12½" Precision	172.30	157.86
2" x 5400,	78V-SR-7630B-L3	66	12½" Precision	224.25	205.57
2" x 7200,	78V-ST-7640B-L3	98	14" Precision	340.22	311.87
CATALOG NUMBER					
INDUSTRIAL-CONSUMER					
2" x 6½-8000B	6½" Plastic Reel & Box	\$ 2.75	\$ 2.30		
2" x 8-7600B	8" Metal Reel & Box	17.00	12.20		
2" x 10½-7620B	10½" Metal Reel & Box	17.00	12.20		
2" x 12½-7630B	12½" Metal Reel & Box	17.00	12.20		
2" x 14-7640B	14" Metal Reel & Box	17.00	12.20		
2" x 8-B	8" Empty Box	1.53	1.38		
2" x 10½-B	10½" Empty Box	1.53	1.38		
2" x 12½-B	12½" Empty Box	1.53	1.38		
2" x 14-B	14" Empty Box	1.53	1.38		
2" x 12½-B	12½" Fiber Mailer	5.00	4.70		
509-080-10	12½" Fiber Mailer	5.00	4.70		
509-080-00	8" Fiber Mailer	5.00	4.70		
2" x 14-B	14" Empty Box	1.53	1.38		
2" x 12½-B	12½" Fiber Mailer	5.00	4.70		
509-080-20	14" Fiber Mailer	5.00	4.70		
ACCESORIES					

MEMORY TYPE 78V TAPE has been specifically designed for transverse-scan broadcast and closed circuit television recorders requiring two-inch wide tape, and optimum performance in "high-band" video applications, as well as significantly improved performance in "low-band" applications.

MEMOREX BROADCAST VIDEO TAPE

Warranty

Memorex tape is warranted for a period of 90 days to be free from defects in manufacture, labeling, or packaging. Liability is limited to replacement of tape if defective.

There are no other warranties express or implied. It shall be the user's responsibility to determine the suitability of the product for his intended use.

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MEMOREX

HELICAL SCAN TAPES - SUMMARY OF CONFIGURATIONS

79-type Tape is a superior family of tapes, each designed specifically for a particular recorder to give maximum performance. Memorex precision tape features low drop-outs, long still frame time, and excellent tape durability. The binder system assures freedom from head-clogging. Consult price list for further information on available configurations.

MACHINE	MRX CONFIGURATION	TAPE WIDTH	TAPE LENGTH	PLAY TIME (MIN.)	REEL	STANDARD PACKAGE	WIND(1)
Ampex VR-6000/7000 Series	79P-OI-7084C-W3	1"	1500'	33	1" x 9 $\frac{3}{4}$ " Precision	Plastic Canister	A
	79P-OI-7084B-W3	1"	1500'	33	1" x 9 $\frac{3}{4}$ " Precision	Box	A
	79P-ON-7084C-W3	1"	3000'	66	1" x 9 $\frac{3}{4}$ " Precision	Plastic Canister	A
	79P-ON-7084B-W3	1"	3000'	66	1" x 9 $\frac{3}{4}$ " Precision	Box	A
Ampex VR-660/1560 Series	79V-SC-8000B-W2	2"	600'	32	2" x 6 $\frac{1}{2}$ " Plastic	Box	B
	79V-SG-7600B-W2	2"	1200'	64	2" x 8" Precision	Box	B
	79V-SK-7620B-W2	2"	2400'	128	2" x 10 $\frac{1}{2}$ " Precision	Box	B
	79V-SR-7630B-W2	2"	4800'	256	2" x 1 $\frac{1}{2}$ -1 $\frac{1}{2}$ " Precision	Box	B
PI PI-3V PI-4V PI-7100	79P-OC-7051C-W3	1"	600'	16	1" x 8" Precision	Plastic Canister	A
	79P-OC-7051B-W3	1"	600'	16	1" x 8" Precision	Box	A
MVR Corp. MVR-11 -15 -65	79P-OG-7051C-W3	1"	1200'	32	1" x 8" Precision	Plastic Canister	A
	79P-OG-7051B-W3	1"	1200'	32	1" x 8" Precision	Box	A
	79P-OK-7150C-W3	1"	2400'	64	1" x 10 $\frac{1}{2}$ " Precision	Plastic Canister	A
	79P-OK-7150B-W3	1"	2400'	64	1" x 10 $\frac{1}{2}$ " Precision	Box	A
Norelco EL-3400	79P-OP-7150C-W3	1"	3600'	96	1" x 10 $\frac{1}{2}$ " Precision	Plastic Canister	A
	79P-OP-7150B-W3	1"	3600'	96	1" x 10 $\frac{1}{2}$ " Precision	Box	A
	79K-OI-7080B-W4	1"	1500'	33	1" x 9" Precision	Box	B
	79K-ON-7080B-W4	1"	3000'	66	1" x 9" Precision	Box	B

NOTE:

(1) "A" wind: Oxide in.
"B" wind: Oxide out.

MEMOREX

HELICAL SCAN TAPES - SUMMARY OF CONFIGURATIONS

MACHINE	MRX CONFIGURATION	TAPE WIDTH	TAPE LENGTH	PLAY TIME (MIN.)	REEL	STANDARD PACKAGE	WIND(1)
Westinghouse/Ikegami	79K-OH-7082B-W3	1"	1600'	30	1" x 9½" Precision	Box	A
	79K-OO-7082B-W3	1"	3200'	60	1" x 9½" Precision	Box	A
Sony EV-200 & GE 2-30	79S-OG-7045B-W3	1"	1250'	30	1" x 8" (Special)	Box	A
	79S-OK-7045B-W3	1"	2500'	60	1" x 8" (Special)	Box	A
Sony PV-120U	79N-SJ-7550B-L6	2"	1950'	90	2" x 7" (Special)	Box	B-clear leader and trailer
	79N-SG-7550B-L6	2"	1275'	60	2" x 7" (Special)	Box	B-clear leader and trailer
	79N-SC-7550B-L6	2"	650'	30	2" x 7" (Special)	Box	B-clear leader and trailer
All ½" Machines Sony, Concord, Panasonic, GE, Shibaden	79L-GK-6130B-W3	½"	2400'		½" x 7" Plastic	Box	A
	79L-GG-6130B-W3	½"	1200'		½" x 7" Plastic	Box	A

NOTE:

(1) "A" wind: Oxide in.
"B" wind: Oxide out.

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MEMOREX WRAP-AROUND TAPE CONTAINERS

MEMOREX WRAP-AROUND CONTAINERS FOR SOLID FLANGE COMPUTER REELS

- 30% thinner, 80% lighter than conventional containers—saves valuable storage space.
- Simple lock-action clasp eliminates frequent jamming that so often occurs with regular containers.
- More positive protection against dust and contamination.
- Integral stacking ring permits non-slip piling of reels.
- Positive protection against flanges "pinching" and damaging tape edges.
- Modestly priced—immediately available from stock.
- Easier to handle—saves time, saves trouble.

FEATURES

New Memorex wrap-around tape containers for solid-flange reels actually reduce your library and storage space requirements by more than 30%. In the space you now need to store 100 reels, you can store almost 150 reels; 1000 reels, almost 1500 reels.

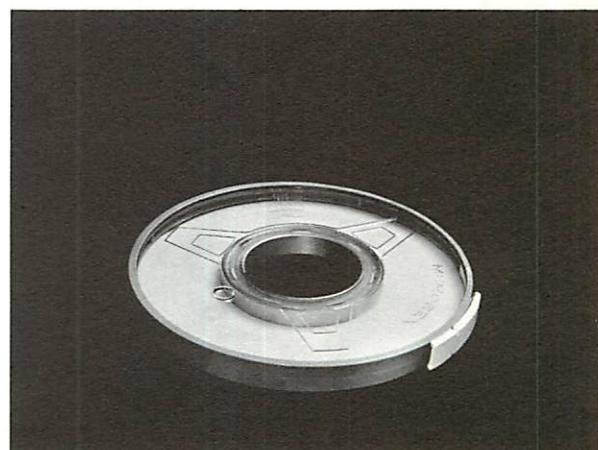
There are other advantages, too. More positive tape protection. Special grooves hold flanges in the ideal position, eliminating possible pinching of tape edges. Groove cushioning material creates a positive anti-contaminant seal between reel and belt.

Memorex wrap-around containers are made from durable Lexan plastic that withstands even the most abusive handling.



THE NEW MEMOREX WRAP-AROUND TAPE CONTAINER

Convenient, practical and priced below conventional containers. Styles for 10½-inch solid-flange computer reels. Made from durable Lexan plastic. Positive snap-lock action guaranteed against failure.



MEMOREX WRAP-AROUND CONTAINERS

Wrap-around Containers	\$3.00 ea.
Wrap-around Containers and Empty Reels . . .	\$5.75 ea.
Wrap-around Containers and Lexan Reel . . .	\$7.50 ea.

Branch Sales / Engineering Offices are located at:

NORTHEAST

Boston
8 Merrimack Street
Lowell, Massachusetts 01852
(617) 454-1582

Hartford
Edwards Office Bldg., Vernon Circle
Vernon, Connecticut 06086
(203) 643-9619

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(214) 363-8977

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(713) 622-1413

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(313) 353-2670

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St. Louis, Missouri 63144
(314) 961-7070

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601 Broadway Street
Denver, Colorado 80203
(303) 244-5473

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1045 Gayley Avenue
Los Angeles, California 90024
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San Francisco
1291 Fifth Avenue
Belmont, Calif. 94002
(415) 593-1691

Hawaii

Computer Products (Pacific) Ltd.
P. O. Box 8615
Honolulu, Hawaii 96815

*** Regional Office**

EUROPEAN OFFICES AND AFFILIATES ARE LOCATED AT:

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Brussels 1, Belgium

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Memorex Precision Products, Ltd.
St. Ives House, St. Ives Road
Maidenhead, Berkshire, England

France
Memorex S. A. R. L.
5, Rue des Colonnes du Trone
Paris 12, France

Germany
Memorex GmbH
Norbertstrasse 3
Cologne 5, West Germany

NEW LIGHTWEIGHT MEMOFOAM TAPE CONTAINERS

NEW MEMOFOAM CONTAINERS FOR COMPUTER AND INSTRUMENTATION TAPES

- Positive Extra Protection
- Environment-Stabilizing
- Only 26 or 30 ounces
- Low Cost
- Reduces Shipping Expense
- Packed in 200-pound Test Corrugated Cartons

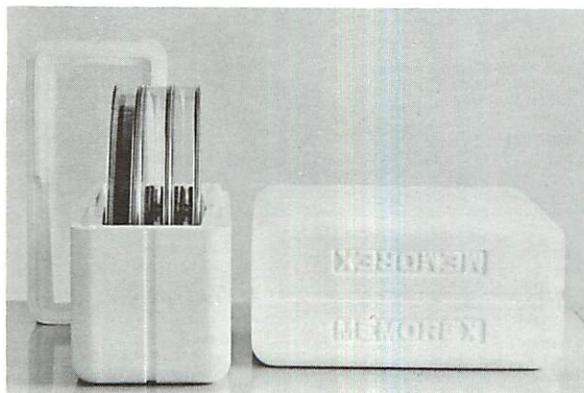
FEATURES

New MemoFoam containers fill the long-standing need for improved protection of computer and instrumentation tapes against temperature extremes and rough handling during shipping and storage.

Manufactured from foamed polystyrene to give cushioning superior to any other tape container available.

MemoFoam containers will maintain tapes at near-room temperatures for more than two hours under temperature extremes of -70° or 170° F. Tapes will remain at near-room temperatures for far longer durations—up to several days—under lesser extremes.

The two MemoFoam halves lock together with mortise joints and may be sealed with $\frac{1}{2}$ -inch filament tape. Containers come packed in 200-pound test corrugated cartons.



FOR INSTRUMENTATION TAPES

Holds three 14" reels of instrumentation tape ($\frac{1}{2}$ " or 1" wide tape in plastic cases) or five $\frac{1}{2}$ " tapes in metal case. Price includes 200-pound test corrugated carton.

CATALOG NUMBER 509-661-00

PRICE (when ordered with Memorex tape) . . \$4.00 ea.
PRICE (when ordered alone) \$5.00 ea.

TERMS

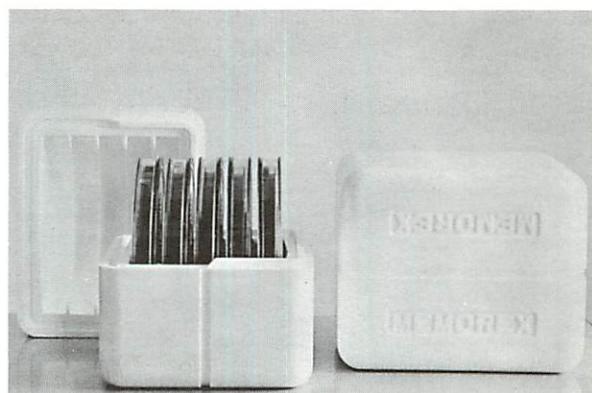
F.O.B. Santa Clara, California. Net 30.

TAXES

Prices shown do not include any applicable state or local taxes.

ORDERS

All orders should be mailed to Memorex Corporation, 1180 Shulman Avenue, Santa Clara, California. Telephone 248-3344; Area Code 408. Invoices will be submitted from Memorex Corporation, Santa Clara, California.



FOR COMPUTER TAPES

Holds five 10 $\frac{1}{2}$ " reels of computer tape ($\frac{1}{2}$ " or 1" wide tape in plastic cases). Price includes 200-pound test corrugated carton.

CATALOG NUMBER 509-660-00

PRICE (when ordered with Memorex tape) . . \$3.00 ea.
PRICE (when ordered alone) \$4.00 ea.

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