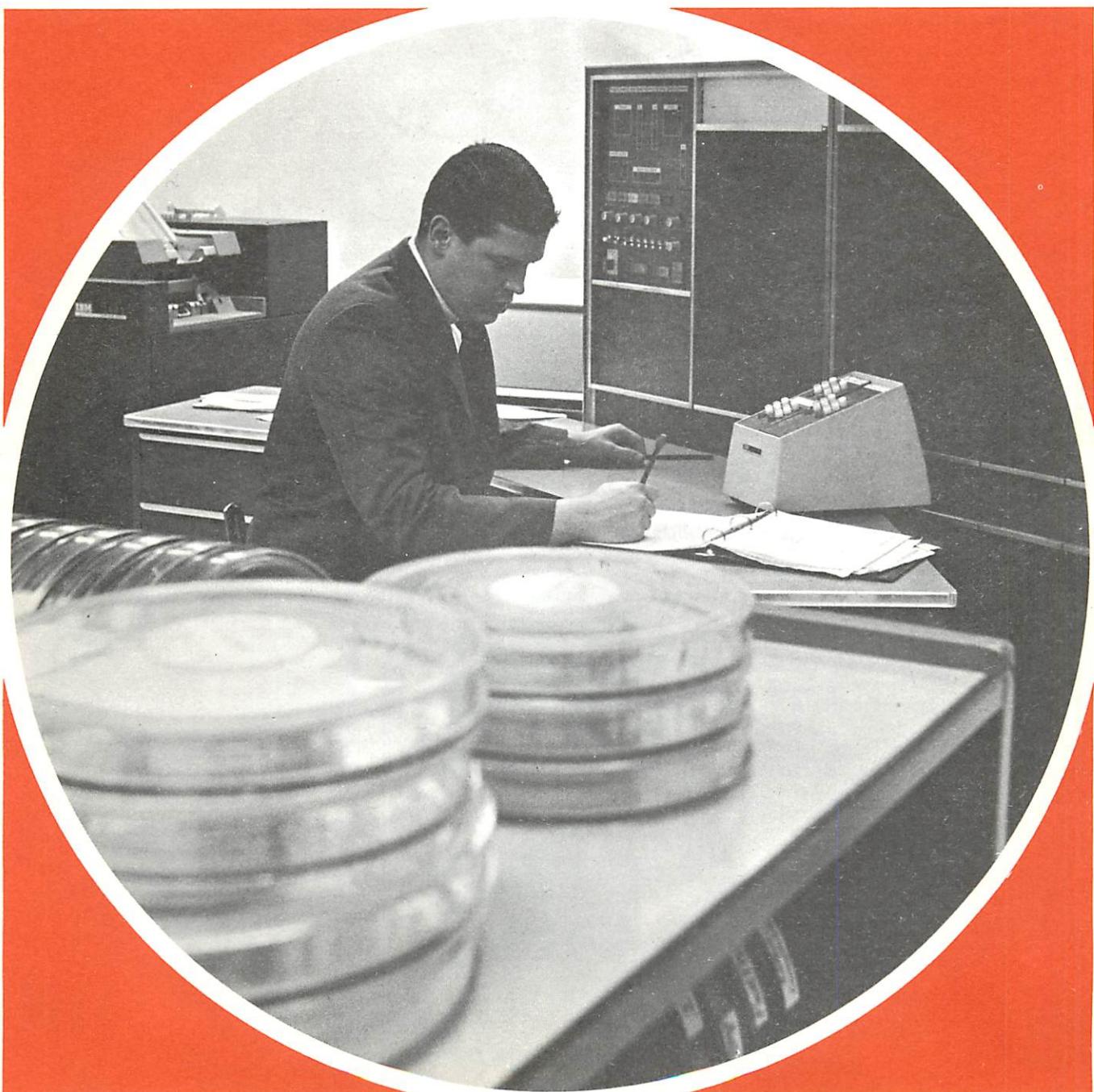


MEMOREX

MEMOREX TYPE 22 COMPUTER TAPE



MEMOREX HEAVY-DUTY TYPE 22 COMPUTER TAPE

Memorex heavy-duty Type 22 computer tape, certified to be error-free, is fully compatible for use with all major digital transports. All standard reel and hub configurations are available as is color-coding if desired.

DURABILITY

Long life and reliability are characteristic of all Memorex computer tapes. More than one million rolls of Type 22 tape have withstood the test of prolonged use on a variety of tape transports. The coating is resistant to abrasion and will not rupture and shed wear products, oxide particles, flakes of coating or backing material. All specifications for magnetic tape durability are either met or surpassed.

LOW DROPOUT INCIDENCE

Another measure of the tremendous acceptance of Memorex Type 22 computer tape is the infrequent occurrence of dropouts—either transient or permanent—after many thousands of passes. Dropout activity in computer tapes has been of major concern in data pro-

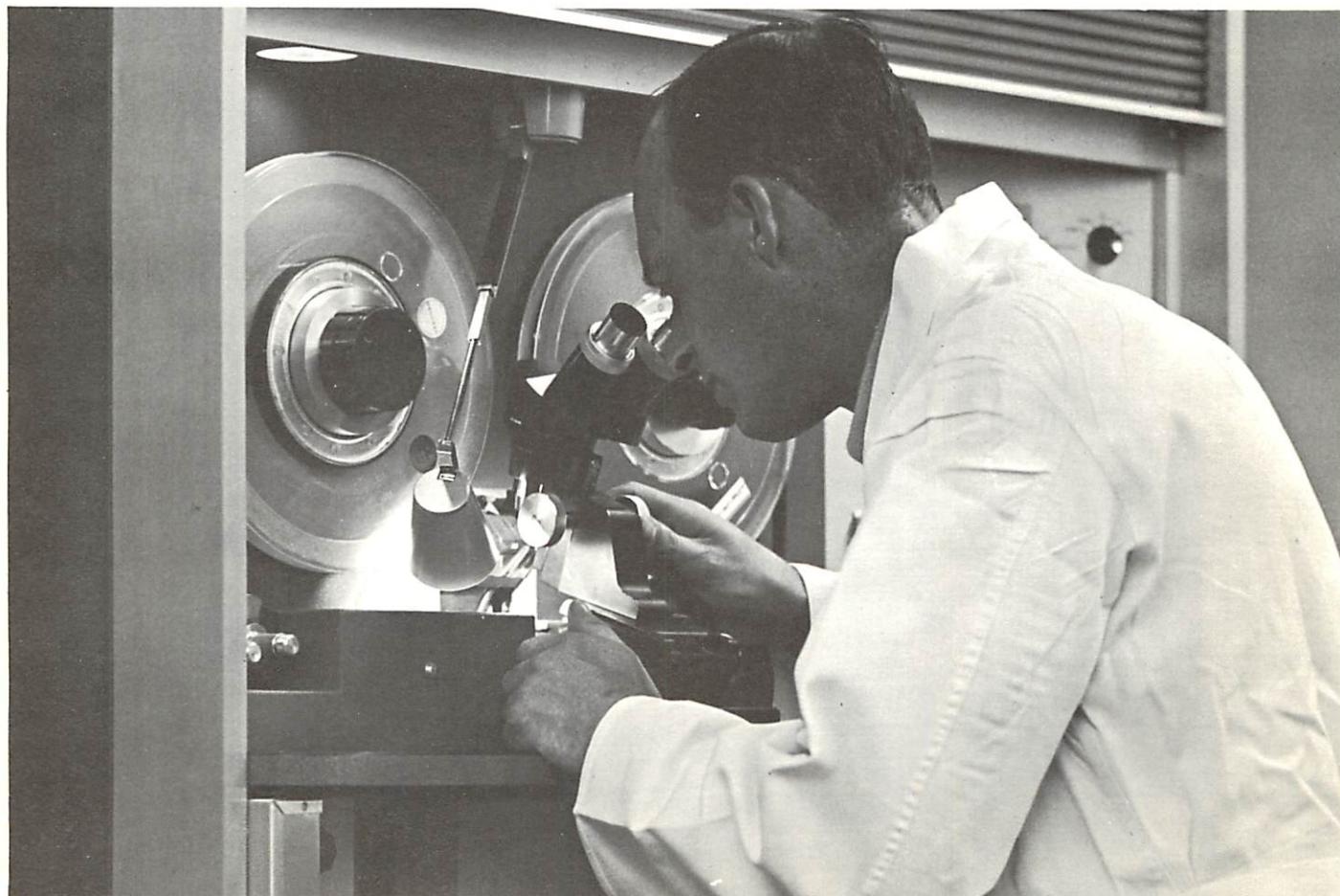
cessing. Memorex Type 22 has proven itself to be free of errors, pass after pass, reel after reel.

SPECIALLY TREATED SURFACE

Memorex computer tapes are further enhanced by a special process that provides an exceptionally smooth surface. Computer tape can be made without such treatment; but a better one can be made by including this additional step in the manufacturing process. A smoother surface means closer and more consistent contact between tape and heads with consequent improvements in resolution and uniformity.

CONDUCTIVE COATING

The coating applied to Memorex computer tapes has been made electrically conductive. The resistance per square has been reduced to a value which allows static charge to be dissipated with a more than adequate time constant. This is not merely a surface treatment, but is built into the coating, and the coating will remain conductive throughout its life.



MAGNETIC AND PHYSICAL PROPERTIES

DIMENSIONS	
Coating thickness	400 microinches
Average total thickness	1.85 mils
Width	498 \pm 2 mils
"E" value	1/8 inch minimum
MAGNETIC PROPERTIES	
Coercive force	265 oersteds
Residual flux	1.3 maxwell/1/2 inch
PERFORMANCE	
Average pulse output at 556 bpi	\pm 5 percent
at 800 bpi	\pm 10 percent
at 1600 bpi/3200 fci	\pm 10 percent
Dynamic Skew at 800 bpi	less than 2 microseconds
Errors per roll — <i>Type 22C</i> , 100% tested for 556 bpi	0
<i>Type 22D</i> , 100% tested for 800 bpi	0
<i>Type 22F</i> , total-surface tested for 800 bpi	0
<i>Type 22E</i> , 100% tested for 1600 bpi/3200 fci	0
PHYSICAL PROPERTIES	
Coating surface roughness, centerline average	5 microinches
Layer-to-layer adhesion	none
Curvature	1/8 inch maximum/36 inch
Cupping	0.01 inch maximum/0.25 inch
Yield force	7 lbs. minimum
Creeposity	0.5 percent maximum
Compatibility	Not an inhibitor
RECOMMENDED ENVIRONMENT	
Operating range	60°F to 90°F 20 percent RH to 80 percent RH (Maximum wet bulb of 78°F)
Storage range	40°F to 90°F 20 percent RH to 80 percent RH (Maximum wet bulb of 80°F) Unrecorded tapes may be stored at 120°F (Maximum wet bulb of 80°F)
TEST CONDITIONS	
Magnetic Properties	
All intrinsic values are measured using a cyclic magnetizing force having an amplitude of 1000 oersteds.	noise pulse (dc saturation condition) greater than 10 percent of average pulse output.
Performance of Types 22C and D is measured by recording on 32 mil tracks spaced 70 mils apart. Type 22E and F performance is measured by recording across the full width of the tape.	Dynamic skew, defined as the variation in time existing between two outside-track read signals during the writing process, is measured on an IBM 729 Model VI tape transport.
Physical Properties	
Average pulse output is given relative to that of Reference Tapes conforming with accepted industry standards. An error is defined as a reduction in output to less than 50 percent of average for 800 bpi (35 percent for 1600 bpi/3200 fci) or a	Coating surface roughness is measured using a profilometer with a 0.1 mil diameter stylus loaded with 0.1 gram and the centerline average calculated in accordance with ASA B 46.1-1962. Other physical properties are measured in accordance with IBM specifications.

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