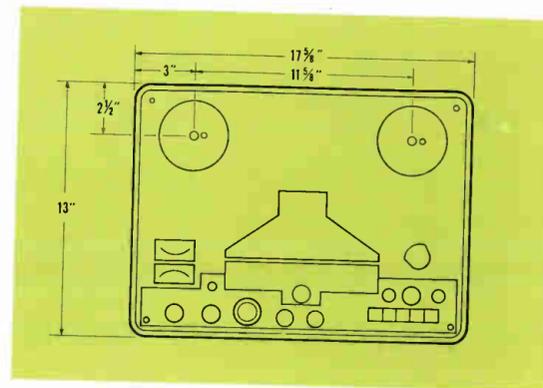
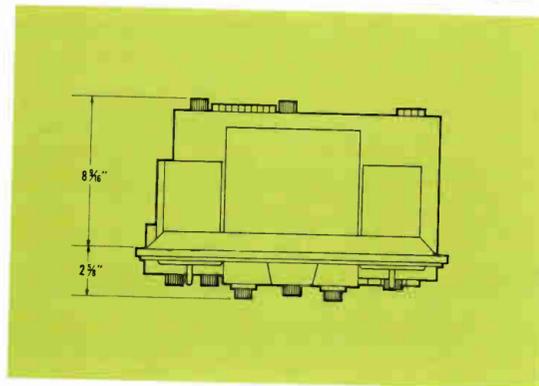




## DIMENSIONS



## QUALITY CONTROL

Every Magnecord instrument is designed to meet the latest National Association of Broadcasters standards. Specifications listed are the results of tests made in accord with N.A.B. standards. Components are not only judged for their accuracy but for long life and dependable operation. From the sturdy die cast mainplate to the hair-fine wire in the magnetic heads, Magnecord represents quality and precision. Magnecord's quality control department even reaches the rigid

standards of the National Aeronautics and Space Administration. All Magnecord recorders carry a one year warranty guarantee. Magnecord is a division of The Telex Corporation. Telex divisions manufacture digital tape transports for use with computers, recording oscillographs for laboratory use, and other electronic devices for both commercial and military applications. Employees include some of the most highly skilled engineers, technicians and production personnel in the world.

## SPECIFICATIONS

### MODEL 1028 SPECIFICATIONS

TAPE SPEEDS ..... 7.5 and 15 inches per second.  
FLUTTER AND WOW ..... Less than 0.15% at 7.5 ips;  
less than 0.1% at 15 ips.

FREQUENCY RESPONSE —  
OVERALL RECORD/  
REPRODUCE ..... 35 to 16,000 cps  $\pm 2$  db at 7.5 ips.  
35 to 18,000 cps  $\pm 2$  db at 15 ips.  
55 db minimum ( $\frac{1}{2}$  track)\*  
50 db minimum ( $\frac{1}{4}$  track)\*

SIGNAL-TO-NOISE RATIO ..... 50 db minimum ( $\frac{1}{4}$  track)\*  
DIMENSIONS ..... 17  $\frac{1}{2}$ " wide, 12  $\frac{1}{2}$ " high,  
12" deep.  
17  $\frac{1}{2}$ " wide, 14  $\frac{1}{2}$ " high,  
12" deep (encased).

### MODEL 1048 SPECIFICATIONS

TAPE SPEEDS ..... 7.5 and 3.75 inches per second.  
FLUTTER AND WOW ..... Less than 0.15% at 7.5 ips;  
less than 0.25% at 3.75 ips.

FREQUENCY RESPONSE —  
OVERALL RECORD/  
REPRODUCE ..... 35 to 16,000 cps  $\pm 2$  db at 7.5 ips.  
50 to 7,500 cps  $\pm 2$  db at 3.75 ips.

SIGNAL-TO-NOISE RATIO ..... 52 db minimum ( $\frac{1}{2}$  track)\*  
50 db minimum ( $\frac{1}{4}$  track)\*  
DIMENSIONS ..... 17  $\frac{1}{2}$ " wide, 12  $\frac{1}{2}$ " high,  
11  $\frac{1}{2}$ " deep.  
17  $\frac{1}{2}$ " wide, 14  $\frac{1}{2}$ " high,  
11  $\frac{1}{2}$ " deep (encased).

### MODEL 1028-1048 SPECIFICATIONS

TIMING ACCURACY .....  $\pm 0.2\%$   
REEL SIZE ..... 5, 7, 8  $\frac{1}{2}$  and 10  $\frac{1}{2}$  inch.  
REWIND TIME ..... 2,400 feet, less than 90 seconds.  
INPUTS ..... Hi-Z microphone and Hi-Z  
unbalanced bridge;  
Lo-Z microphone and Hi-Z  
balanced bridge with input  
transformers.

INPUT SENSITIVITY ..... -90 dbm to -35 dbm.  
OUTPUTS ..... Cathode follower, 2.5 volts  
 $\pm 5$  volt, 150/600 ohm  
balanced, + 3 dbm with output  
transformers.

HEADS ..... Selectable Erase, 2-channel  
Record, 2-channel Play.  
WEIGHT ..... 47 pounds (55 pounds encased).

\*Down from a 3% 3rd harmonic distortion recording at 1,000 Hz.

**MAGNECORD**  
tape recorders  
DIVISION OF THE TELEX CORPORATION  
9600 ALDRICH AVENUE SOUTH  
MINNEAPOLIS, MINNESOTA 55420

**MAGNECORD**  
FINEST 1028-1048 RECORDER/REPRODUCER



**MAGNECORD'S  
FINEST  
1028-1048  
RECORDER/REPRODUCER**

Magnecord Models 1028 and 1048 deliver everything a demanding sound professional or audio engineer could want.

They head the list of distinguished Magnecords, and are among the world's top professional machines.

Tape speeds and resulting specifications are the only differences.

Model 1028 with a tape speed of 7.5 and 15 inches per second, is preferred for making master music tapes.

Model 1048 with a tape speed of 7.5 and 3.75.

is the professional choice for recording voice.

Both offer exceptional sound excellence to a field in which superior sound is a rule.



IN OPERATION Magnecord provides for both stereo or nonaural operation, and straight, slot-loading. Interlocking push-button controls respond instantly to commands. Tape automatically lowers from heads during rewind or fast forward. When the tape runs out or accidentally breaks, reel motors automatically switch off. Magnecord's high-speed control permits cueing during rewind or fast forward tape motion with the tape gate in cue position. A record interlock protects against accidental tape erasure.

The two-speed metering capstan drive system produces split second timing. Differential brakes delicately handle the tape. Separate record and reproduce amplifiers allow simultaneous monitoring during recording. With VU meters, you can monitor record, playback and bias for each channel. Bias adjustment permits maintenance of ideal recording conditions. Switch for optional  $\frac{1}{2}$  or  $\frac{1}{4}$  track play heads is located on the front panel of the machine. Both the 1028 and 1048 models accommodate  $10\frac{1}{2}$ " reels for long play. RCA phono jacks, connected into the unbalanced line input and output, in addition to standard Cannon connectors, simplify mixer and output connections. A four-digit tape counter with reset button speeds location of taped material.

Head assembly cover may be easily removed for tape editing, head cleaning and degaussing. Special markings indicate the head centerline for accurate and easy editing or cueing.

MAGNECORD EXCLUSIVE MICRO-OPTIC HEADS refer to the unique head manufacturing process developed and employed exclusively by Magnecord. Micro-Optic heads are precision lapped and polished to within micro-inches. Heads and tape gate are critically aligned on an optical comparator before the head assembly casting is installed on the main die-casting.

- 1) Play (Reproduce)—Extreme gap narrowness resolves high frequencies and hyperbolic wrap curve reduces contour effect for flatter response.
- 2) Record—Instruments that measure to within millionths of an inch guarantee parallelism and flatness for superior high frequency recording.
- 3) Erase—Double gap erase head with two complete magnetic circuits insures complete erase flux penetration of the tape emulsion.

COMPACT AND PORTABLE—No other tape recorder of this caliber is so easily handled. The unit is contained in a single case measuring  $17\frac{3}{8}$ " x  $12\frac{1}{8}$ " x 12" and weighs only 55 pounds. In a crowded production room or for on-the-spot recording, these factors add to the value of the 1028 and 1048 Magnecords.

OPTIONAL ACCESSORIES—The basic 1028 or 1048 Magnecord comes equipped in a choice of  $\frac{1}{2}$  or  $\frac{1}{4}$  track operation. Each instrument is supplied with a standard AC power cord and requires 117V, 60-cycle, alternating current. Magnecords equipped for 50-cycle current will be shipped upon request. The following accessories may be added to the basic unit before or after purchase.

- Optional  $\frac{1}{2}$  or  $\frac{1}{4}$  Track Play Head.
- Special Magnecord Carrying Case.
- Rack Adaptor Panel for mounting.
- Input Transformer (50/150 Ohms), Plug-In.
- Output Transformer (150/600 Ohms), Plug-In.

MAGNECORD meets rigid National Aeronautic and Space Administration quality standards. One Magnecord installation at NASA, Houston, is shown in photograph below.

RCA PHONO JACKS connected into the unbalanced line input and output simplify mixer and output connections. Screw terminal strips and Cannon connectors also provided for input and output connections.

INSPECTOGRAPH. The published specifications describe the over-all performance you can expect from any 1028 or 1048 recorder. After the completed recorder passes its battery of tests, the unique characteristics of each unit are carefully charted and packed with that instrument. You will know the exact performance of your particular set.

MICRO-OPTIC HEADS are manufactured exclusively by Magnecord for the 1028/1048 series. See features and manufacturing techniques described in text which make these heads superior to any others on the market.

