



# dynamū

an exciting scientific achievement that transforms an ordinary tape recorder into a

*Magnificent  
Magnetronic  
Instrument*



Dynamū—the revolutionary *magnetronic* tape recording and playback heads proven in the field for more than a year—are writing history with WRFF tapes (Wide Range Full Frequency) beyond the scope of conventional equipment. Music lovers and audiophiles everywhere are turning to **Dynamū** to make treasured tapes play better and new tapes *superlative*. Gap width of these remarkable magnetronic tape heads is almost incredibly tiny . . . only  $1\frac{1}{2}/10,000$  inch . . . for high fidelity reproduction.

Dynamū conversion kits are designed and built with but one thought in mind . . . to deliver the very finest reproduction of sound in the world. Yet the pleasure of owning the finest is well within the budget of every music lover and recording enthusiast. **Dynamū** conversion kits are now available for easy installation on most leading recorders.

with a Dynamū conversion kit you can put more sound on less tape . . . and make it sound infinitely better

*High Fidelity* **dynam**



si



Inset Drawing  
Actual Size

another quality product of the Maico Company— one of the

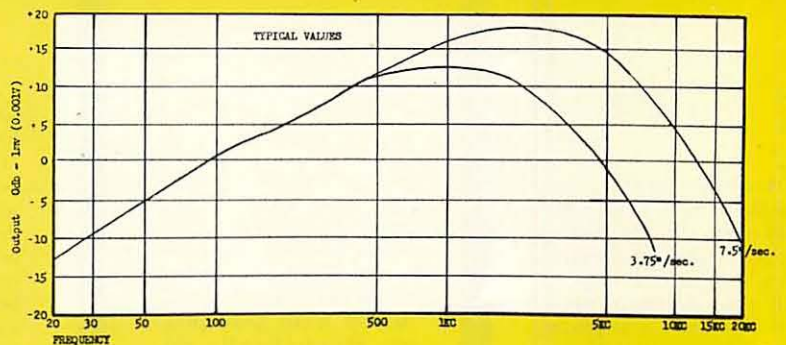
# Dynamū ... the biggest advance in home tape recording since the discovery of supersonic bias!!

*Now at last, through the magic of the Dynamū principle and modern manufacturing methods, thrilling, true-to-life reproduction of tape recorded sound is not confined to the favored few to whom price is no object. Dynamū brings beautifully true, cameo-clear sound to everyone . . . at a price so low it would have been out of the question before Dynamū. This is news . . . big, exciting news to hi-fi fans and tape recorder owners. Just listen . . . and you'll know why we call Dynamū a true marvel of modern electronics!*



**for the technically minded . . .**

these response  
curves tell the  
Dynamū story far  
better than words



### 8001 Record- Playback Head:

Track Width	.090
Gap Width	.00015
DC Resistance	300 ohms
Inductance	290 mh @1kc
Impedance	high
Rec. Bias	.6—.8 ma

### 8003 Erase Head:

Track Width	.125
Gap Width	.008
DC Resistance	125 ohms
Inductance	50 mh
Impedance	10K @ 30KC; 22K @ 60KC; 39K @ 100KC

**do it yourself . . . or factory authorized installation**

# dynamū

the ultimate result of  
years of research and  
progress in electronics

**1** Original tape recorders developed in Germany operated at tape speed of 30 inches per second. They were obviously wasteful of tape, and the tone quality left much to be desired.

**2** The gap width was later narrowed by United States designers to  $\frac{1}{2}$  mil, permitting reproduction of 15,000 cycles at 15 inches of tape per second. This was a great improvement but a costly one, used only on certain professional machines.

**3** Through further research and development, heads with a gap width of 35/100 mil were introduced, making practical home recorders with a tape speed of only 7.5 inches per second, to deliver frequency responses upwards of 8,000 cycles.

**4** Later American industry produced a new head with a gap width of  $\frac{1}{4}$  mil. These heads are found today only on a few of the better home type and professional recorders.

**5** Now Dynamū, with the finest and narrowest gap ever available on any heads—only  $1\frac{1}{2}/10,000$  inch—and a straight line from end to end within the previously unheard-of tolerance of  $\pm$  two wavelengths of light. The Dynamū principle makes possible for the first time a frequency range and dynamic range from home recorders equal to the finest records. Tape speed is only 7.5 inches per second, with direct magnetronic drive as used in the finest modern professional studio equipment.

check these  
dramatic

# dynamū

features

## EXTENDED OUTPUT

Dynamū Hi-Fi and Ultra-linear heads may be plugged directly into NARTB or Dynamū accessories for dramatic playback of the increasingly popular new music tapes. You haven't fully enjoyed high fidelity musical reproduction until you've heard tape through Dynamū, fed into your home music system.

## RUGGEDIZED

Even a casual examination of a Dynamū head, with its one-piece drawn metallic shields of long-cycle, hydrogen annealed Mumetal, its rugged mounting and terminals . . . the solid encapsulation of the very inductive elements themselves . . . will tell you unmistakably that Dynamū is built to take it.

## FREQUENCY RESPONSE

Never before at any price has there been frequency response and dynamic range available to compare with Dynamū . . . Ask your dealer to play the 3M demonstration tape, "Desert Suite", on a Dynamū head with a Dynamū pre-amplifier into a typical home music system amplifier and speaker. Listen . . . and discover what Dramatic Impact really means!

## QUIETNESS

With Dynamū, you need hear only what the microphone heard . . . clear, true sound as originally recorded, without added annoying hiss, hum or rumble from head pick-up. Dramatically improved signal-to-noise ratio adds many decibels in dynamic range . . . another remarkable plus value in Dynamū!

## COST

Cost was never a consideration in Dynamū design. Dynamū heads are not stripped down or altered in any way to meet a price, but are designed up to a standard and built solely to reproduce recorded sound with the truest fidelity ever known. The pleasure of owning a high fidelity magnetronic instrument is priceless . . . yet well within the reach of all. A finer head cannot be bought for any amount of money, yet Dynamū conversion kit prices range from only \$19.95, depending upon your recorder.

manufactured by **Dynamū Magnetronics Corporation**

a division of the **Maico Company, Incorporated**