



# 2" - 24 Track Music Mastering Heads

- *Extended Response*
- *Extended Life*
- *Ultra-low Distortion*



## Engineered for Superior Performance

Electromag has over 20 years experience in the design and production of magnetic heads for all types of recorders. From audio to aerospace, EMC's expertise and high quality manufacturing is now available in a set of superior two inch, 24 track music mastering heads.

Without question the most popular head for use on the Hollywood post scene, the tape-friendly elliptical contour and patented combination of materials, provides intimate tape-to-head contact, reduces friction and improves tape tracking. And, the patented design assures long life without the use of "questionable sounding" glass bonded ferrite. (see page 2)

Gap placement is held to the very tightest tolerances to virtually eliminate "scatter" and maintain nearly perfect phase integrity. Track placement is held to within 0.001 in. of the standardized 24 track format. The frequency response and distortion curves on page 2 demonstrate the electrical excellence that EMC products are known for.

Overall, EMC heads exhibit lower distortion, better high frequency stability, essentially non-existent head bumps, less crosstalk, and have less tape to head friction than the competition. The photograph (above) shows **Otari** and **Ampex** heads as well as a dummy head for use on play only machines. **Electromag** can retrofit electrically and mechanically to **all 24 track recorders** and provide azimuth adjustment for models that originally use fixed base mounting.

Experience the lack of coloration and the transparency of first rate design and construction.



Be sure to check out EMC's 1/2" Mastering Heads. ATR-100 shown.

### Retail Pricing:

2" - 24 Track EMC Record	\$3,400.00
2" - 24 Track EMC Standard Play	\$3,200.00

Prices include Set up & Digital Optical Alignment (F.O.B. San Diego, California)

## Experience the sound of EMC!

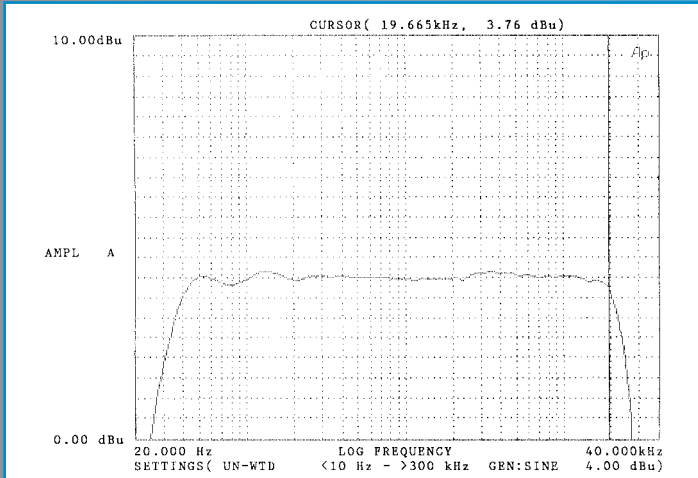
EMC manufactures heads for most professional audio & film recorders in 1/4"-2" widths. Also, consider MDI/ElectroMag when you require service or relapping of any and all head assemblies.



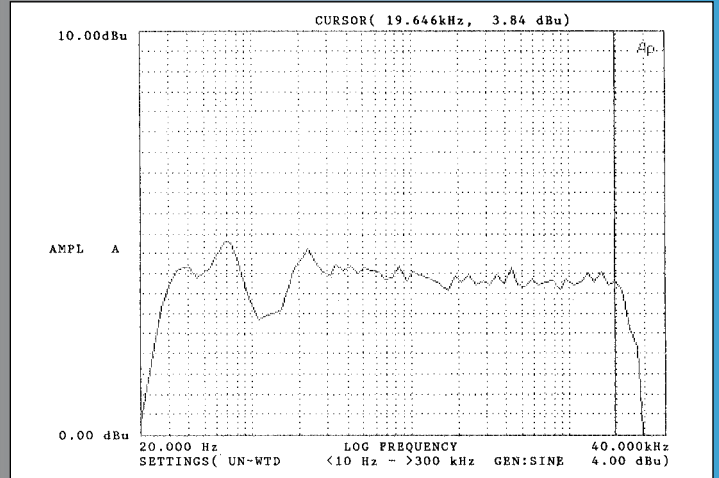
## Engineered for Electrical Excellence

Electromag has engineered a unique design to avoid low frequency build up and maintain a flat response up to 20 kHz. This is illustrated by the response curves shown below. The standard Otari MTR 90 mk II is overbiased 2 3/4 db at 10 kHz on Zonal 700 tape. These curves demonstrate the virtually flat frequency response and low total harmonic distortion that EMC heads can bring to your facility. Ask about our demonstration/loaner set of heads.

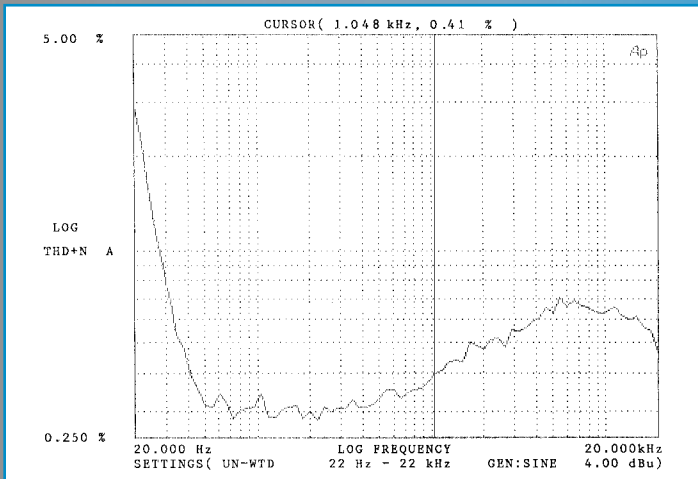
EMC - 24 TRACK RECORD / PLAY HEADS



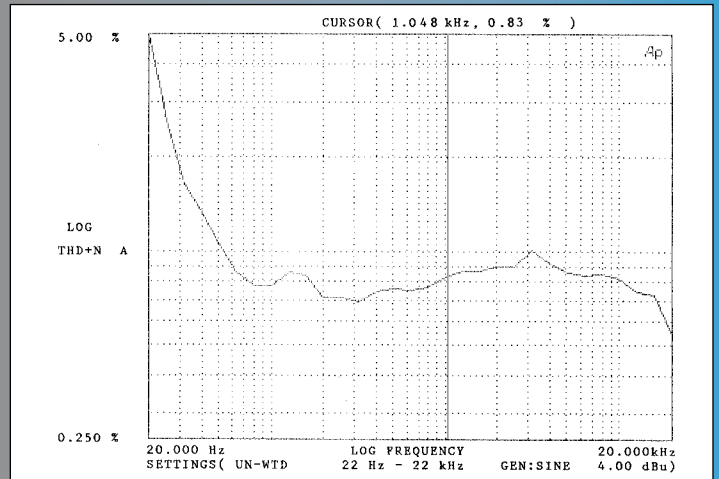
OTARI STANDARD - 24 TRACK RECORD / PLAY HEADS



EMC - 24 TRACK RECORD /PLAY HEADS



OTARI STANDARD - 24 TRACK RECORD / PLAY HEADS



## Engineered for Extended Life

Electromag's patented manufacturing process uses ceramic materials as the bonding agent between layers of magnetic metal in place of the epoxy used in common soft faced heads. The long wearing ceramic produces a core that is stress free and displays the ideal magnetic properties of the virgin magnetic material used to design recording systems.

As shown in the illustration, the tape travels across the head parallel to the laminations and wears the softer magnetic metal down 3 to 10 microinches. This leaves the ceramic slightly elevated providing a long wearing surface to support the magnetic media throughout the life of the head. The 10 microinch separation loss is negligible at audio wavelengths.

Patented ELECTROMAG CORE CONSTRUCTION

