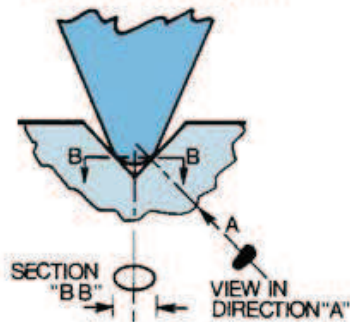


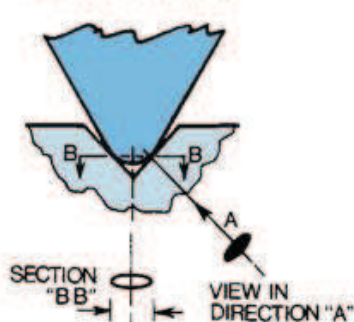
## The Hyperelliptical Stylus tip

BIRADIAL (ELLIPTICAL) STYLUS  
SUCH AS IN V15 TYPE III

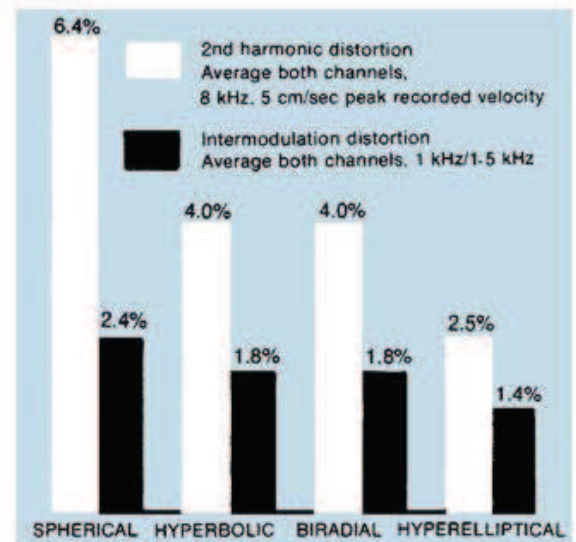


The Hyperelliptical nude diamond tip configuration of the V15 Type IV represents a significant advance in tip design for stereo sound reproduction. As the above figures show, its "footprint" (represented by black oval) is longer and narrower than the traditional Biradial (Elliptical) tip-groove contact area. Because the Hyperelliptical footprint

HYPERELLIPTICAL STYLUS  
OF THE V15 TYPE IV



geometry is narrower than both the Biradial and long-contact shapes such as the Hyperbolic, it is preeminent for reproduction of the stereo-cut groove. In fact, as a result of the optimized contact area of the Hyperelliptical tip, both harmonic distortion (white bars in graph at right) and intermodulation distortion (black bars) are dramatically reduced.



HARMONIC AND INTERMODULATION  
DISTORTION FOR VARIOUS TIP SHAPES