

1.1 General Description

- o The M2896 flexible disk drive is the 1 to 1.2 megabyte formatted memory capacity disk drive, employing two magnetic heads for recording on both sides of the medium, at double density, thus providing a capacity four times higher than 250 kilobytes offered by conventional single-side, standard density drives.
- o The M2896 reads and writes on an 8-inch diskette, either one or both sides, and in single or double density, and media-compatible with IBM diskettes 1,2 and 2D or equivalent.
- o The M2896 is plug-compatible to the Industrial Standard interface and same options with Shugart SA850/850R.
- o The M2896 provides a stabilized, soft media contact by using an entirely new circular gimbal spring in the mechanism for holding the magnetic heads with lower loading pressure. Thus, excellent read/write operation and a long service life are offered. This mechanism significantly reduces the effects of jacket deformation or variations in thickness, thereby stabilizing read and write performance. Thus, it is unnecessary to select a special maker's product any more.
- o The magnetic read/write heads core are consisted of Mn-Zn ferrites, enabling a higher performance. The slider has a high-precision, pinhole-free sliding surface. The four corners and edges of the slider are smoothly blended and finished so that no stress is given to the medium, providing wear resistance and thus a prolonged service life.
- o The M2896 head loading mechanism uses a closed-loop electronic damping system employing a magnetic sensor. The magnetic heads load on the medium surface so softly that almost no scratchin is caused by repeated loading and unloading (tap-tap). (Many hundreds of thousands of tap-tap tests at the same point on the same track cause no error on the track and adjacent tracks.)
- o The M2896 can be mounted in a standard 19-inch RETMA rack as a set of parallel units.
- o Two M2896's can be mounted in a standard 8 inch FDD space.