



" Mobile HDI" Tribology Tester

**for portable computers, digital cameras, personal digital assistants
and other mobile-computing applications**

1. Accommodates magnetic and magneto-optical media 0.75" to 3.5".
2. Low-distortion disk clamps, central-screw and screw-less.
3. Accommodates all common head suspensions, including boss-less, integrated, micro-actuating, with one-screw quick assembly.
4. Reproduces both geometry and dynamics of ANY mobile disk drives:
 - start-stop, OD or ID load/unload, head-lifters,
 - pivot-to-spindle distance, exact radius-skew profile, Z-height, etc.
5. Absolute head positioning with 0.003" accuracy when assembling a head on the tester, with no need for additional measuring tools.
6. Programmable disk speeds: 1 to 20,000 rpm.
7. Programmable head seeks and sweeps: 0.1 to 90 Hz (full stroke on 1.8" disk), with under/over-shoots below 5%.
8. Precision measurements of head-disk interface parameters:
 - friction and stiction forces,
 - dynamic gram-load,
 - high-frequency contact acoustic emission,
 - track-average amplitude, with extended read-back,
 - thermal asperities 3-D mapping.
9. In-tester altitude with air pressure controller (up to 30,000 feet).