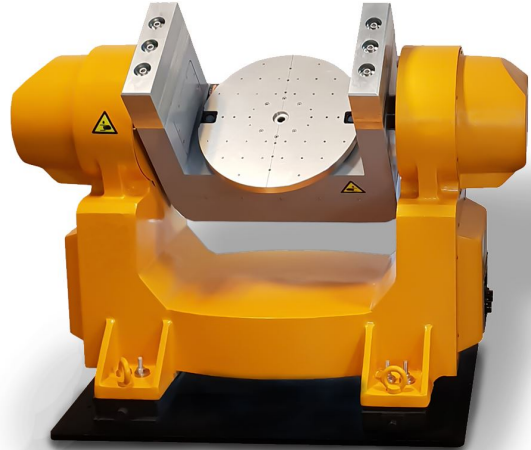


## FDA -222 ■

The FDA-222 motion simulator is designed to be an economic rate table. This model allows testing of several medium and large Inertial Measurement Units (IMU's) or Micro Electro Mechanical Systems (MEMS) sensors simultaneously and also for the development, testing and calibration of stabilized optical sights or startrackers.

This model has two degrees-of-freedom; Roll and Pitch or inner and outer respectively. The outer gimbal has a "U-shape" design allowing unobstructed optical access to the tabletop. The simulator's axes are equipped with stow locks to facilitate the safe loading/unloading of the UUT. The simulator is secured to the facility floor using four leveling wedges.

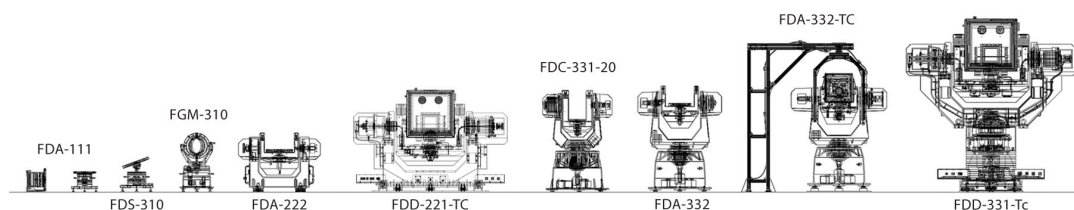


A temperature chamber with gas cooling and electric heating is fastened to the middle axis gimbal as an option.

Slip ring assemblies featuring power rings and shielded signal rings permit electrical access to the UUT and allow to simulate continuous rotation. Beside the standard slip ring configuration, a wide variety of slip ring capsule designs and wiring schematics are available.

AC direct drive brushless motors are used for all the simulator's axes. The servo feedback transducers are also direct mounted to the axes and perform high precise positioning performances.

The ACCUDYNA nonlinear multi-variable controller is embedded in a special console, which has a power cabinet with amplifiers, power supplies, chokes, and motor filters. The controller can be configured as determined by the customer's application. It is capable of providing position, rate and acceleration control either manually from the GUI or remotely through the RS232/RS422 computer interfaces. UDP (Up to 4 kHz) can be an option.



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