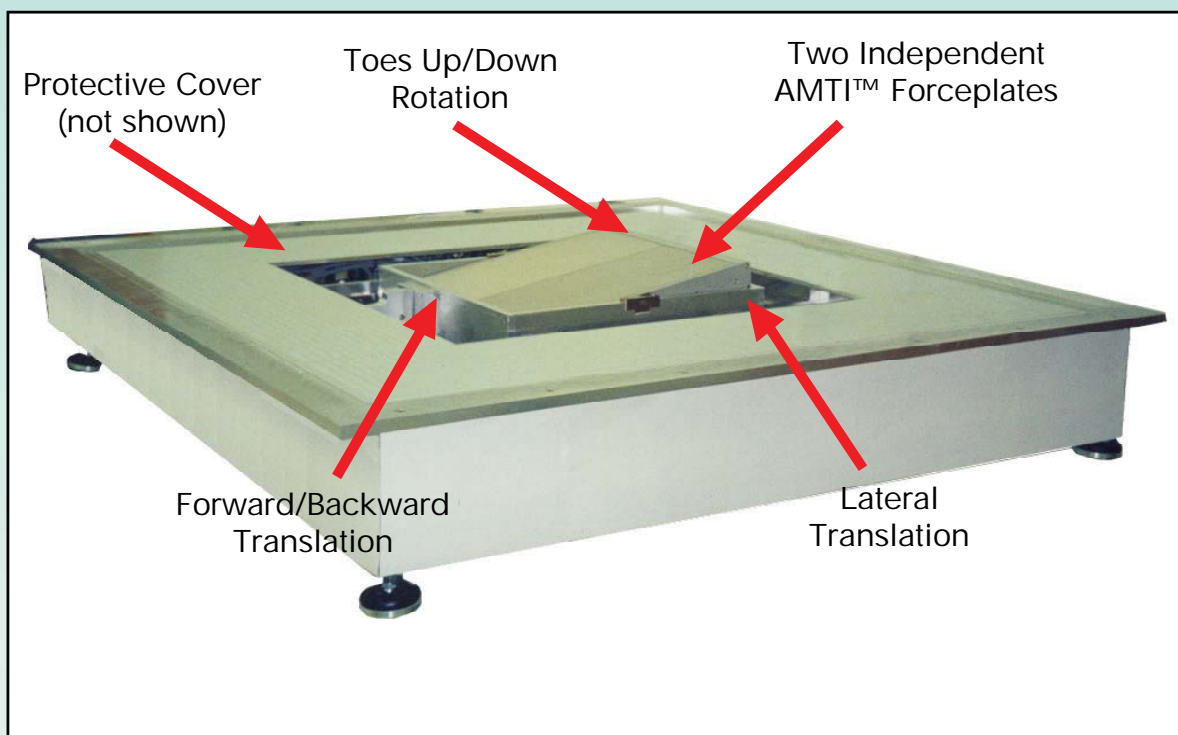




NeuroCom[®]
International, Inc.

A New Dynamic Platform from NeuroCom[®] and AMTI[™]



- **High Velocity Three-Dimensional Movement**
 - forward/backward translation
 - lateral translation
 - toes up/down rotation
- **Two 6-Degrees-of-Freedom AMTI[™] Forceplates**
- **Turn-Key User Programmable Operating System**
- **Ethernet Communications**

Summary of Specifications:

Movement:

Multiple linear actuators with zero backlash ball-nuts provide smooth, accurate movements of the AMTI forceplates. The operator can specify the waveforms to control the actuators which may be activated independently or in any combination.

- Translation:** Movement in all directions of the horizontal plane.
- ± 5 " (13cm) from center, for a maximum of 10" (25cm) in the left-right and forward-backward directions.
 - Maximum velocity: 100 cm/sec (time to maximum velocity: 40 msec).
- Rotation:** Tandem rotation of the AMTI forceplates in the vertical plane.
- ± 10 degrees from center, either toes up or down, for a maximum of 20 degrees.
 - Maximum velocity: 100 deg/sec (time to maximum velocity: 40 msec).

The forceplates can be moved with the subject in a fixed position to assess standing balance or can be triggered to be moved as the subject ambulates across the surface; for example, to assess slip reactions.

Software:

Software Package: User programmable operating system for flexibility in designing research protocols. User can specify:

- Trial Duration
- Cursor Display
- Movement Velocity
- Movement Amplitude
- Movement Direction & Onset Delay
- Sway Reference Values

Forceplate data can be exported as either Load Cell Raw Data or Center of Force/Center of Gravity/Weight (COF/COG/WT). If COF/COG/WT is selected, the operator can specify the units (inches, centimeters, degrees, pounds, kilograms) for each.

Communications to the base for control of the motors and to the AMTI forceplates for data acquisition is Ethernet based.

Dimensions:

Overall Footprint: L60" x W68" x H10.75" (152cm x 173cm x 28cm). Designed to be bolted to the floor.

Forceplates: Two independent 9" x 18" (23cm x 46cm) Six-Degrees-of-Freedom AMTI™ forceplates.

Cover: The complete base is covered (not shown) to protect the user, as well as the subject, from possible pinch points.

Power Source:

Dedicated 220V 20 Amp

Specifications subject to change without notice.

