

AMTI's BioAnalysis software package is a complete analysis suite ideal for gait, balance, and power analysis. BioAnalysis integrates with AMTI's NetForce data acquisition software to provide a seamless acquisition and analysis system for biomechanics laboratories. The data acquired in the NetForce software is stored in a Subject Database. BioAnalysis accesses the same Subject Database and the desired trials may be selected for viewing, plotting, and analysis.

### *FEATURES*

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- Analyze data from up to 4 AMTI platforms simultaneously
- Add other types of hardware (EMG's, accelerometers, goniometers, etc.)
- Export raw data or statistical analysis as text files
- Easy to upgrade

### *PLOTTING*

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- Separate modules for gait, balance, and power
- Add up to 15 plots
- Create custom plots
- Overlay data sets on one plot
- Create templates
- Zoom in to mark events and identify coordinates

### *COMPUTER REQUIREMENTS (minimum)*

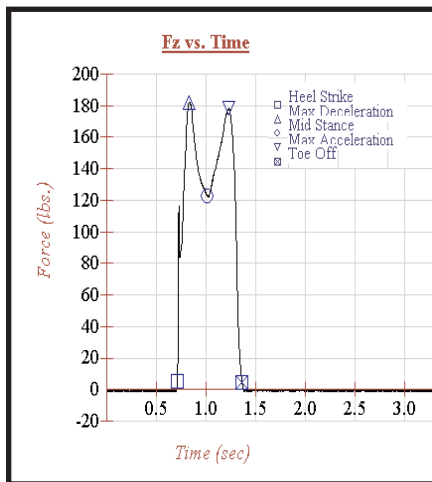
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Processor.....	Pentium 133 MHz
Memory.....	16 MB RAM
Operating System.....	Windows 98, Me, 2000, XP
Hard Drive Space.....	50 MB free space
CD-ROM.....	4x

# BIOANALYSIS

## STATISTICAL PARAMETERS

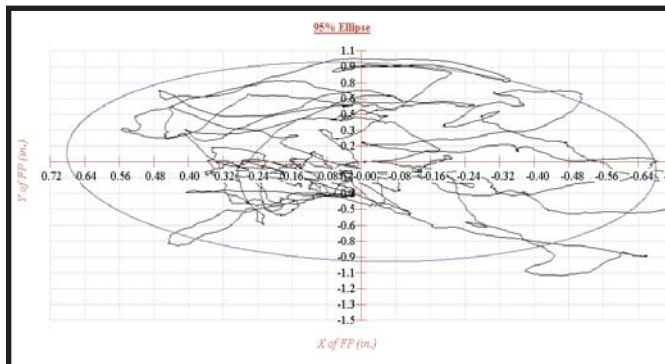
### GAIT



- Time at Heel Strike
- Time at Toe Off
- Stance Time
- Average Force (X, Y and Z)
- Maximum Force (X, Y and Z)
- Time at Maximum Force (X, Y and Z)
- Maximum Force Impulse (X, Y and Z)
- Force at Maximum Deceleration (Z)
- Time at Maximum Deceleration (Z)
- Maximum Deceleration Impulse (Z)
- Force at Maximum Acceleration (Z)
- Time at Maximum Acceleration (Z)
- Maximum Acceleration Impulse (Z)
- Force at Midstance (Z)
- Time at Midstance (Z)
- Midstance Impulse (Z)
- Maximum Vertical Torque
- Time at Maximum Vertical Torque
- Minimum Vertical Torque
- Time at Minimum Vertical Torque
- Average Vertical Torque
- COP at Heel Strike (X and Y)
- COP at Toe Off (X and Y)
- COP Excursion (X and Y)
- COP Average Distance (X and Y)
- COP Total Length
- COP Maximum Velocity
- COP Average Velocity

- COP Average (X and Y)
- COP Maximum (X and Y)
- COP Minimum (X and Y)
- COP Standard Deviation (X and Y)
- COP Average Displacement (X and Y)
- Average Radial Displacement
- Standard Deviation of Radial Displ.
- Correlation Coefficient
- 95% Ellipse Area
- Average Velocity
- COP Total Length
- Std. Dev. Along the Major Axis of the 95% Ellipse
- Std. Dev. Along the Minor Axis of the 95% Ellipse

### BALANCE



### POWER

- Maximum Net Force
- Time at Maximum Net Force
- Minimum Net Force
- Time at Minimum Net Force
- Maximum Velocity
- Time at Maximum Velocity
- Minimum Velocity
- Time at Minimum Velocity
- Maximum Work
- Time at Maximum Work
- Minimum Work
- Time at Minimum Work
- Maximum Power
- Time at Maximum Power
- Minimum Power
- Time at Minimum Power

ISO 9001:2000 CERTIFIED



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