

HE600x600

Hall Effect force platform



AMTI's HE600x600 is an accurate, easy-to-use, and economical force platform for measuring the three forces (Fx, Fy, and Fz) and the three moments (Mx, My, Mz). This six-degree-of-freedom platform comes with everything needed to collect data with a PC, including a powerful data acquisition software package. Key features include:

Durability

The platform makes use of Hall Effect-based sensors and provides extremely high overload protection on all axes, guarding the platform from damage.

Portability

AMTI has designed the HE600x600 system for maximum portability. The platform can be used on any flat surface as no mounting hardware is required (although removable mounting bars are available).

Internal amplification

The HE600x600 does not require an external amplifier, reducing the system's cost and further increasing portability.

Digital output

The platform's built-in electronics can be set to provide

digital output. The output can be connected to a PC via RS-232 or USB (with a simple adapter).

Analog output

A separate connector provides continuous analog output, allowing for direct access to the measurement data. The eight analog channels are of a ± 10 volt range and correspond to Fz1, Fz2, Fz3, Fz4, Fx1, Fx2, Fy1, and Fy2. The channels are summed in software to provide the forces and moments along the x-, y-, and z-axes.

External sync signal

The interface box can be used to append an event marker to the data signal that indicates a specific event (such as the beginning or end of a test). The signal can be initiated through the interface box by depressing a button or by sending a digital trigger through its input jack.

Packaged with valuable software

AMTI's NetForce provides a user-friendly interface for easy trial setup and out-of-the-box data acquisition when using the HE600x600 through a digital connection. NetForce enables users to export the raw channel data to ASCII files, which can be analyzed through spreadsheet programs like Microsoft Excel.

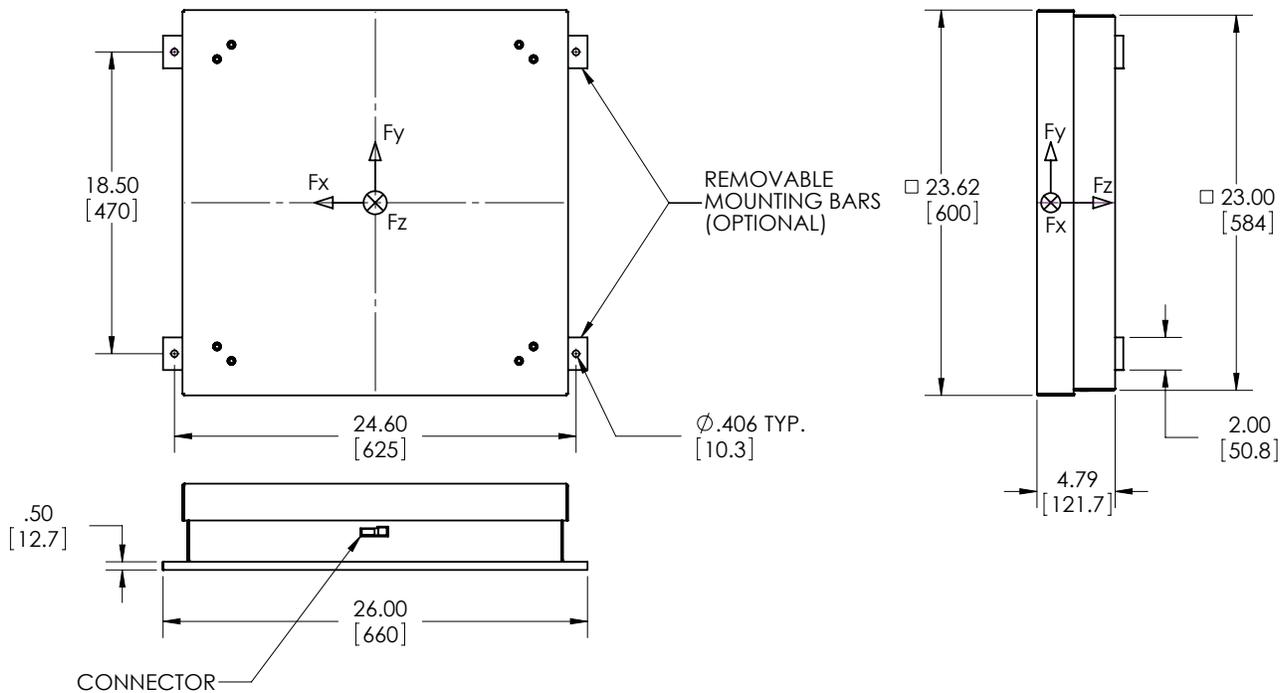


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Fz capacity, lb (N)	2000 (8900)
Fx, Fy capacity, lb (N)	1000 (4450)
Mz capacity, in-lb (Nm)	10000 (1100)
Resultant moment capacity – $\sqrt{(Mx^2+My^2)}$, in-lb (Nm)	20000 (2260)
Minimum natural frequency	130 Hz
Dimensions, in (mm)	23.62 x 23.62 x 4.79 (600 x 600 x 121.7)
Weight, lb (kg)	26 (12); optional mounting bars – 4.4 (2)
Digital data rate	Software selectable 50, 60, 100, 120, 200, 240, 300, 400, 500, 600, 1000, or 1200 data sets per second. 12-bit resolution. A USB connection is needed to acquire data at more than 200 sets per second.
Interface	USB (through adapter) or RS-232 serial port
External sync signal	Active = low volts, switch to ground (0-9V). Inactive = 5V open circuit with internal 10K ohm pull-up resistor. Protected to +/- 10V.
Digital data transmission	Proprietary binary format
Power supply	7.5 VDC, 110V or 220V input power supply included
Minimum computer requirements	Windows 2000/XP/Vista, Pentium 1.2 GHz processor, 512 MB RAM, and a USB or RS-232 serial port.
Filters	Fixed 100 Hz third-order analog



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