

## Force Plates

Bertec Force Plates have been specifically designed for gait, balance, ergonomic and sports analyses using strain gauge technology, innovative designs, and quality manufacturing.



### Design

Force plates are available in a variety of sizes and load ranges and can be used with any motion analysis system including camera-based systems using passive markers, active markers or magnetic sensors.

The force plate signal is fed into your choice of amplifier -- digital, analog or dual digital/analog output. The digital signal output can be directly plugged into a standard USB port without the requirement of an additional PC card for analog-to-digital (A/D) signal conversion.

Digital acquisition software enables the user to collect data quickly without the need for additional custom designed software.

Balance plates and jump plates are specialized force plates. Bertec Force Plates simultaneously measure three force components along the x, y, and z axes and three moment components about the x, y, and z axes for a total of six outputs. Balance and jump plates measure the vertical force and two moments which can be used to compute the Center of Pressure (CoP).

### Unique Features

- > Superb resolution with 0% cross-talk -- best on the market.
- > No signal interference from outside sources with 100% digital encoding.
- > Wide range of sizes and load capacities.
- > Documented, superior accuracy, with no drift.
- > Both top-mount and foot-mount options available.
- > Honeycomb technology ensures enhanced dynamic measurement characteristics while keeping the overall weight to a minimum
- > Strongest industry warranty -- 7 years on hardware and electronics!



## Standard Force Plate Packages

	Standard Gait and Posture Package	Standard Gait and Impact Package	Standard High Impact Package
Ideal for:	Typical gait and posturography studies	Gait, running, and jumping studies	Sports science studies
Force Plate:	FP4060-07-1000 highly sensitive plate with maximum load capacity of 5000 N (1000 lbs).	FP4060-10-2000 sensitive gait measurement capability, high natural frequency, and a load capacity of 10,000 N (2000 lbs) make this the ideal hybrid force plate.	FP6090-15-2000 large foot print (60 cm x 90 cm), high natural frequency, and load capacity 10,000 N (2000 lbs) make this the ideal sports science force plate.
Amplifier:	AM6504: Four gain values (1, 2, 5, 10) for the Analog/Digital board; suitable for a wide variety of subjects.	AM6800: Seven gain values (1, 2, 5, 10, 20, 50, 100) for low impact studies; and simultaneous analog and digital outputs can be used with or without motion capture.	AM6800: Seven gain values (1, 2, 5, 10, 20, 50, 100) for low impact studies; and simultaneous analog and digital outputs can be used with or without motion capture.
All include:	<p>MP4060: Mounting plate that is made from precision cut aluminum for a truly flat and level surface (includes epoxy kit and all necessary mounting hardware).</p> <p>FPA-10: Force plate-to-amplifier connection cable (10 meter cable with individually shielded twisted pairs for uninterrupted data transmission).</p> <p>AMO-01: BNC amplifier output cable for use with an Analog/Digital board.</p>		

## Force Plate Configuration

Model	Size, mm (in)			Weight, kg (lb)	Natural Frequency Hz	
	Width	Length	Height		Fz	Fx, Fy
4060-05	400 (15.75)	600 (23.62)	50 (1.97)	8 (18)	340	550
4060-07			75 (2.95)	38 (84)	340	550
4060-08			83 (3.25)	38 (84)	340	550
4060-10			100 (3.94)	30 (66)	430	580
4060-15			150 (5.91)	21 (46)	740	570
4060-NC			100 (3.94)	39 (86)	480	550
4080-15	400 (15.75)	800 (31.50)	150 (5.91)	28 (62)	740	570
4550-08	464 (18.25)	508 (20.00)	83 (3.25)	38 (84)	340	550
6012-15	600 (23.62)	1200 (47.24)	150 (5.91)	62 (137)	360	400
6090-15	600 (23.62)	900 (35.43)	150 (5.91)	45 (99)	400	450
9090-15	900 (35.43)	900 (35.43)	150 (5.91)	65 (143)	320	410



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