



Measurement Excellence™

# BERTEC CORPORATION

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## FP 4060 – 08

### Applications

Bertec Corporation's line of force plates are ruggedly designed to meet any application. The 4060 series is well suited for gait, balance, sports, ergonomic, static, and dynamic analysis. The 4060-08 model is commonly used for clinical and research gait analysis. Strain gage technology, state-of-the-art electronics, innovative mechanical designs, and quality manufacturing have created superior force plates suitable for any clinical or research use.

### Design

Each force plate consists of precision-engineered, strain gaged load transducers that precisely measure six components: three orthogonal forces and the moments about each axis. Each plate contains a built-in, 16-bit digital gain amplifier and signal conditioning unit, which make the use of calibration matrices obsolete. You then have the choice of three external amplifiers: digital (AM6500), analog (AM6501, AM6504), or digital and analog (AM6800). This system allows the use of long output cables without any signal degradation. The digital output can be directly plugged into your PC's USB port. Simple installation and a minimum amount of setup time result from this plug and play technology. For the analog output, you have the choice of either six individual BNC type outputs or seven individual bare wire outputs (custom output cables available per request). A software package is available to enable quick data collection without the hassle of writing your own software. Bertec also has software libraries and device drivers available upon request for researchers who want to develop their own data acquisition software.



### Unique Features

At an economical price, the 4060-08 model comes with a lightweight aluminum top that will withstand years of use. It is available in two standard load ranges (1000 lb or 2000 lb) and custom load ranges. The use of a mounting plate is recommended with this model. Thoughtful electronic design internally corrects for crosstalk, so the output is a true reading. Excellent resolution and high natural frequency is standard with Bertec force plates.

### Customization

If none of our standard models meet your requirements, years of experience and a willingness to solve any challenge gives Bertec the edge in custom designing a solution for you. We can construct plates of any size for any load capacity, and most can be made waterproof. For example, the 4060-NC is a non-conductive model specially designed for use in environments requiring measurement of magnetic fields.

At Bertec, our aim is to provide the variety that you want with the quality you deserve.  
See the back for specific technical specifications.



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# BERTEC 4060-08

Parameter	08 - 1000 Specifications				08 - 2000 Specifications			
	English Units		S.I Units		English Units		S.I Units	
	Value	Units	Value	Units	Value	Units	Value	Units
Width (x)	15.75	in	400	mm	15.75	in	400	mm
Length (y)	23.62	in	600	mm	23.62	in	600	mm
Height	3.25	in	83	mm	3.25	in	83	mm
Mass	62	lb	28	kg	62	lb	28	Kg
Fx, Fy Load Capacity	500	lb	2500	N	1000	lb	5000	N
Fz Load Capacity *	1000	lb	5000	N	2000	lb	10000	N
Fx, Fy Overload Capacity (50%FSO)	750	lb	3750	N	1500	lb	7500	N
Fz Overload Capacity (50%FSO)	1500	lb	7500	N	3000	lb	15000	N
Mx Capacity	11500	lb-in	1500	N-m	23500	lb-in	3000	N-m
My Capacity	7500	lb-in	1000	N-m	15500	lb-in	2000	N-m
Mz Capacity	5500	lb-in	750	N-m	11500	lb-in	1500	N-m
Mx Overload Capacity	17500	lb-in	2250	N-m	35000	lb-in	4500	N-m
My Overload Capacity	11500	lb-in	1500	N-m	23500	lb-in	3000	N-m
Mz Overload Capacity	8500	lb-in	1125	N-m	17500	lb-in	2250	N-m
Fx, Fy Natural Frequency	550	Hz	550	Hz	550	Hz	550	Hz
Fz Natural Frequency	340	Hz	340	Hz	340	Hz	340	Hz
Fx, Fy Sensitivity	0.10	lb / mV	0.44	N / mV	0.20	lb / mV	0.89	N / mV
Fz Sensitivity	0.20	lb / mV	0.89	N / mV	0.40	lb / mV	1.78	N / mV
Mx Sensitivity	2.36	lb-in / mV	0.27	N-m / mV	4.72	lb-in / mV	0.53	N-m / mV
My Sensitivity	1.58	lb-in / mV	0.18	N-m / mV	3.15	lb-in / mV	0.36	N-m / mV
Mz Sensitivity	1.18	lb-in / mV	0.13	N-m / mV	2.36	lb-in / mV	0.27	N-m / mV
Crosstalk Fx -- Fy	0	% (**)	0	% (**)	0	% (**)	0	% (**)
Crosstalk Fx, Fy -- Fz	0	% (**)	0	% (**)	0	% (**)	0	% (**)
Crosstalk Fz -- Fx, Fy	0	% (**)	0	% (**)	0	% (**)	0	% (**)
Linearity	+/- 0.2	%FSO	+/- 0.2	%FSO	+/- 0.2	%FSO	+/- 0.2	%FSO
Hysteresis	+/- 0.2	%FSO	+/- 0.2	%FSO	+/- 0.2	%FSO	+/- 0.2	%FSO
Center of Pressure Error - CoPx, CoPy	+/- 0.04	in	+/- 1.0	mm	+/- 0.04	in	+/- 1.0	mm

(\*) Load Capacity can be customized (\*\*) Crosstalk is internally corrected

The 4060-08 model comes standard with a solid 1" thick **Aluminum top.**



As you upgrade from the 08-1000 to the 08-2000, the **Load Capacity** and **Moment Capacity** doubles.



Bertec force plates have **no Crosstalk**, which results in **true readings.**



All Bertec plates have excellent **Resolution.**



The 4060-08 model has higher **Natural Frequency** than AMTI to meet your clinical and research demands.

For more information visit our website [www.bertec.com](http://www.bertec.com), or call our sales department directly at +1 614 430-5421 ext. 226