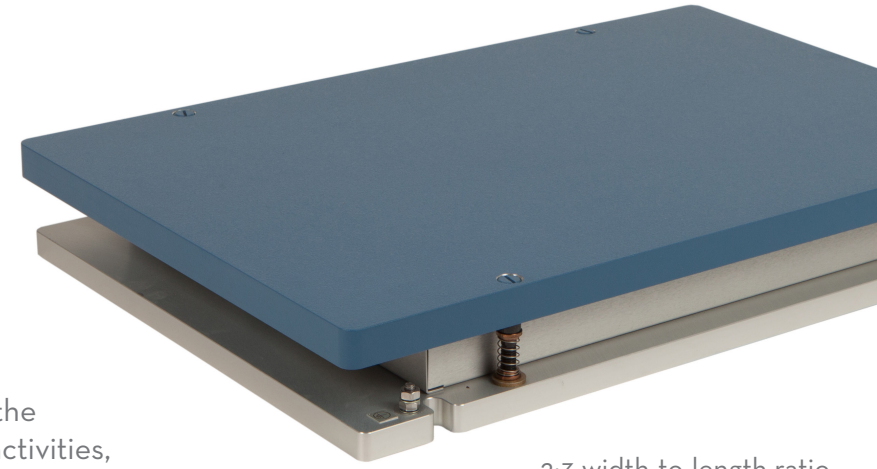
BMS400600

Force Platform

OPTIMA™ Biomechanics Measurement Series (BMS)

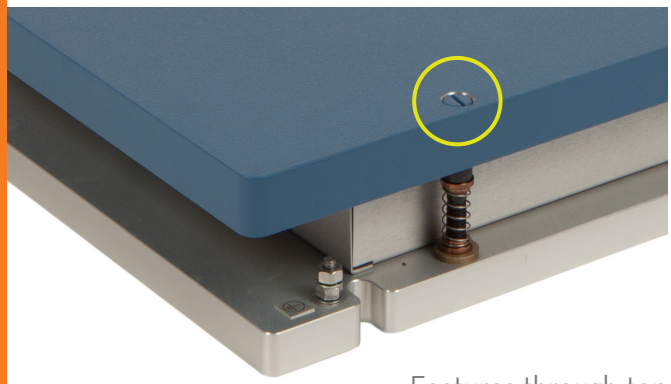


2:3 width-to-length ratio,
ideal for human gait analysis

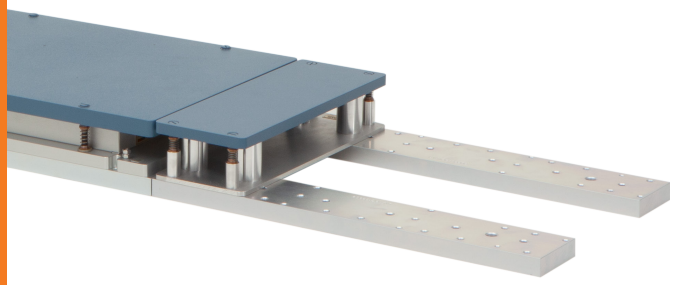
System Components:
Force plate, Optima external amplifier,
9m (30ft) transducer cable, and mounting kit

As our most popular and versatile force plate, the BMS400600 can be used for a wide range of activities, including gait analysis, balance testing, and sports applications.

The BMS400600 is equipped with through-top mounting holes and features AMTI's advanced Optima Technology. This outstanding platform offers superior accuracy, high natural frequency, and flexibility across applications—all in our most affordable package.



Features through-top
mounting access



Modular Rail System (MRS) and Filler Plates
enable easy reconfiguration of force plates
and future lab growth

BMS400600 SPECIFICATIONS	
Dimensions (W x L x H)	400 x 600 x 82.5 mm (15.75" x 23.6" x 3.25")
Available Models	Standard or High Frequency (HF)
Weight (Standard or HF)	Standard Model: 28 kg (62 lb) High Frequency: 18 kg (40 lb)
Sensing Elements	Strain gauge bridge
Channels	Fx, Fy, Fz, Mx, My, Mz
Top Plate Material	Aluminum or Composite (HF)
Temperature Range	-17 to 52°C (0°F to 125°F)
Analog Output	6 Channels
Digital Output	USB (with OPTIMA amplifier)
Crosstalk*	±0.2% of applied load
Fx, Fy, Fz Hysteresis	< 0.5% full scale output
COP Accuracy*	< 0.5 mm (0.02 in.)
Measurement Accuracy*	±0.5% of applied load

*Typical Value: Minimum applied load 50 lb.
Site and installation requirements available upon request.

OPTIMA

ASTM INTERNATIONAL

The only force platform systems that conform to the ASTM F3109-23 technological standard for performance verification of multi-axis force plates.

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BMS400600

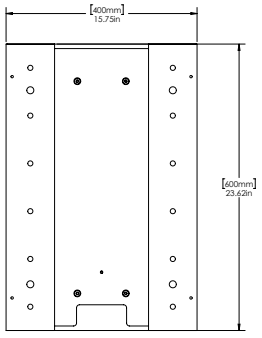
Standard Model

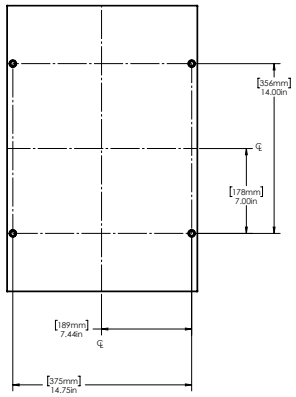
AVAILABLE MODELS			
MODEL	BMS400600-1K	BMS400600-2K	BMS400600-4K
Fz Capacity	4450 N (1000 lbs)	8900 N (2000 lbs)	17800 N (4000 lbs)
Fx, Fy Capacity	2225 N	4450 N	8900 N
Mx Capacity	1330 Nm	2670 Nm	5330 Nm
My Capacity	890 Nm	1790 Nm	3570 Nm
Mz Capacity	670 Nm	1330 Nm	2670 Nm
Fx, Fy Sensitivity	0.67 µV/VN	0.34 µV/VN	0.17 µV/VN
Fz Sensitivity	0.17 µV/VN	0.08 µV/VN	0.04 µV/VN
Mx Sensitivity	1.40 µV/VNm	0.70 µV/VNm	0.35 µV/VNm
My Sensitivity	1.78 µV/VNm	0.89 µV/VNm	0.45 µV/VNm
Mz Sensitivity	3.27 µV/VNm	1.63 µV/VNm	0.82 µV/VNm
Fx, Fy Natural Frequency*	310 Hz	370 Hz	450 Hz
Fz Natural Frequency*	370 Hz	380 Hz	410 Hz

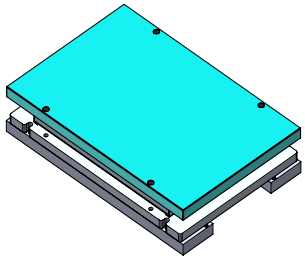
*Natural Frequency specs shown for Standard Model (Solid Top). HF Model specs on following page.
See Specifications & Details on website for complete English Units.

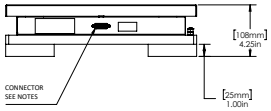
Heart of the OPTIMA system.

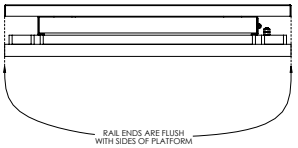
With its advanced features, the OPTIMA (OPT-SC) signal conditioner allows for simple setup, increased accuracy, and the option for direct digital integration.











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CE ISO 9001:2015 certified
ISO 13485:2016 certified
ISO 17025:2017 accredited

BMS400600HF

High Frequency Model

AVAILABLE MODELS		
MODEL	BMS400600HF-1K	BMS400600HF-2K
Fz Capacity	4450 N (1000 lbs)	8900 N (2000 lbs)
Fx, Fy Capacity	2225 N	4450 N
Mx Capacity	1330 Nm	2670 Nm
My Capacity	890 Nm	1790 Nm
Mz Capacity	670 Nm	1330 Nm
Fx, Fy Sensitivity	0.67 µV/VN	0.34 µV/VN
Fz Sensitivity	0.17 µV/VN	0.08 µV/VN
Mx Sensitivity	1.40 µV/VNm	0.70 µV/VNm
My Sensitivity	1.78 µV/VNm	0.89 µV/VNm
Mz Sensitivity	3.27 µV/VNm	1.63 µV/VNm
Fx, Fy Natural Frequency*	480 Hz	570 Hz
Fz Natural Frequency*	720 Hz	730 Hz

*Natural Frequency specifications shown for High Frequency (HF) Model (Composite Top).
See Specifications & Details on website for complete English Units.

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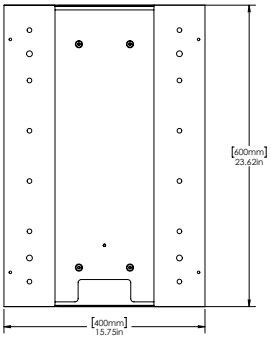

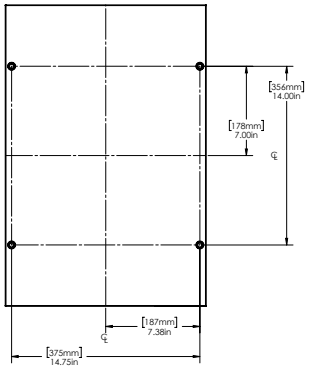

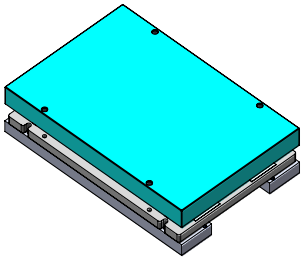

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