HPS464508

Previously OR6-6/OR6-7

OPTIMA™ Biomechanics Measurement Series (BMS)

System Components:

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

As part of AMTI's Optima High Performance Series (HPS), the HPS464508 is the most advanced and most accurate force platform system available. Period.

This 46×51 cm force plate is an industry "standard size" for adult and pediatric gait studies and is used in hundreds

of labs around the world. It supports a wide range of applications, from gait analysis to balance testing or even canine gait studies.



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

HPS464508 SPECIFICATIONS		
Dimensions (W x L x H)	464 x 508 x 82.5 mm (18.25" x 20" x 3.25")	
Available Models	Standard or High Frequency (HF)	
Weight (Standard or HF)	Standard Model: 27 kg (60 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*	±0.05% of applied load	
Fx, Fy, Fz Hysteresis	< 0.5% full scale output	
COP Accuracy*	< 0.2 mm (0.008 in.)	
Measurement Accuracy*	±0.1% of applied load	
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*Typical Value: Minimum applied load 50 lb. Site and installation requirements available upon request.



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



HPS464508

Standard Model

AVAILABLE MODELS			
MODEL	HPS464508-1K	HPS464508-2K	
Fz Capacity	4450 N (1000 lbs)	8900 N (2000 lbs)	
Fx, Fy Capacity	2225 N	4450 N	
Mx Capacity	1130 Nm	2260 Nm	
My Capacity	1130 Nm	2260 Nm	
Mz Capacity	570 Nm	1130 Nm	
Fx, Fy Sensitivity	ο.67 μV/VN	0.34 μV/VN	
Fz Sensitivity	0.17 μV/VN	ο.08 μV/VN	
Mx Sensitivity	1.59 µV/VNm	0.80 µV/VNm	
My Sensitivity	1.59 µV/VNm	0.80 µV/VNm	
Mz Sensitivity	3.36 μV/VNm	1.68 µV/VNm	
Fx, Fy Natural Frequency*	320 Hz	390 Hz	
Fz Natural Frequency*	490 Hz	510 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.

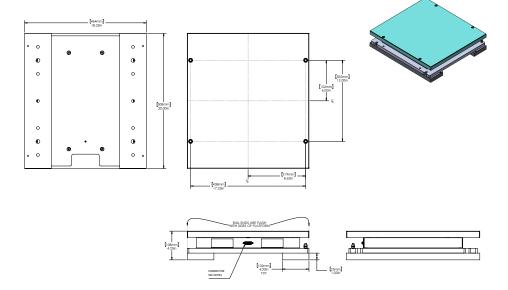
Heart of the OPTIMA system.

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



176 Waltham Street, Watertown, MA 02472 USA +1-617-926-6700 | sales@amtimail.com | www.amti.biz





HPS464508HF

High Frequency Model

AVAILABLE MODELS			
MODEL	HPS464508HF-1K	HPS464508HF-2K	
Fz Capacity	4450 N (1000 lbs)	8900 N (2000 lbs)	
Fx, Fy Capacity	2225 N	4450 N	
Mx Capacity	1130 Nm	2260 Nm	
My Capacity	1130 Nm	2260 Nm	
Mz Capacity	570 Nm	1130 Nm	
Fx, Fy Sensitivity	ο.67 μV/VN	0.34 μV/VN	
Fz Sensitivity	0.17 μV/VN	ο.08 μV/VN	
Mx Sensitivity	1.59 µV/VNm	0.80 μV/VNm	
My Sensitivity	1.59 µV/VNm	0.80 μV/VNm	
Mz Sensitivity	3.36 μV/VNm	1.68 µV/VNm	
Fx, Fy Natural Frequency*	560 Hz	660 Hz	
Fz Natural Frequency*	950 Hz	960 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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