BMS464508

Previously OR6-6/OR6-7

OPTIMA™ Biomechanics Measurement Series (BMS)

System Components:

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

The BMS464508 is an industry "standard size" force plate for adult and pediatric gait studies and is used in hundreds of labs around the world.

Featuring AMTI's advanced Optima Technology, this multiaxis mounted force platform is popular for gait analysis and

can be used for a wide range of applications, from adult or adolescent 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

| BMS464508 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* | ±0.2% 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.



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



BMS464508

Standard Model

| AVAILABLE MODELS | | | | |
|---------------------------|-------------------|-------------------|--------------------|--|
| MODEL | BMS464508-1K | BMS464508-2K | BMS464508-4K | |
| 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 | 1130 Nm | 2260 Nm | 4520 Nm | |
| My Capacity | 1130 Nm | 2260 Nm | 4520 Nm | |
| Mz Capacity | 570 Nm | 1130 Nm | 2260 Nm | |
| Fx, Fy Sensitivity | o.67 μV/VN | 0.34 µV/VN | 0.17 µV/VN | |
| Fz Sensitivity | 0.17 µV/VN | o.o8 µV/VN | 0.04 µV/VN | |
| Mx Sensitivity | 1.59 μV/VNm | 0.80 μV/VNm | 0.40 µV/VNm | |
| My Sensitivity | 1.59 μV/VNm | 0.80 μV/VNm | 0.40 µV/VNm | |
| Mz Sensitivity | 3.36 µV/VNm | 1.68 μV/VNm | 0.84 μV/VNm | |
| Fx, Fy Natural Frequency* | 320 Hz | 390 Hz | 480 Hz | |
| Fz Natural Frequency* | 490 Hz | 510 Hz | 440 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.

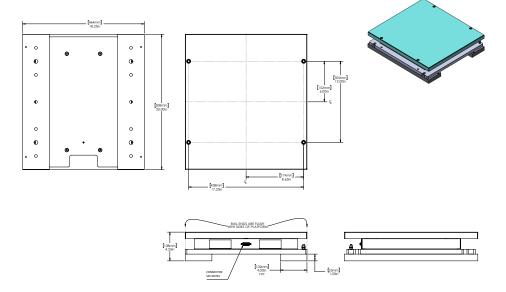
Heart of the OPTIMA system.

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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BMS464508HF

High Frequency Model

| AVAILABLE MODELS | | | | |
|---------------------------|-------------------|-------------------|--|--|
| MODEL | BMS464508HF-1K | BMS464508HF-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 | ο.34 μV/VN | | |
| Fz Sensitivity | 0.17 μV/VN | 0.08 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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