

# 2200 Series BenchMate

## Vibration-Free Platforms

### Features/Benefits:

- Unmatched price/performance
- Low profile Passive-Air or Active-Air designs
- VibraDamped construction
- Low natural frequency
- Excellent horizontal isolation
- Flatness:  $\pm 0.004$ " over 24" x 24" on -22 and -32 top surfaces
- SPILLPRUF spill management
- Class 100 Cleanroom Compatible – Class 10 available

BenchMate Vibration-Free Platforms enhance the performance of precision tabletop equipment.

The 2210 Series is a Passive-Air design requiring an optional hand pump if an air source is not available. It requires periodic manual leveling.

The 2212 Series is an Active-Air design that requires an air source for use (not included). It is a self-leveling unit and recommended for regular use.

### Ultimate BenchMate

The 2214 Series is very similar to the 2212, however it has the added benefit of multistage horizontal isolation. It is recommended in applications where horizontal vibrations are a problem.

**Models  
2210 & 2212  
Now Available  
with Ultraflat  
Breadboard Top  
(-22 & -32 Tops  
Only)**

MODEL  
2214-01-22



MODEL  
2212-01-22



MODEL  
2210-01-11



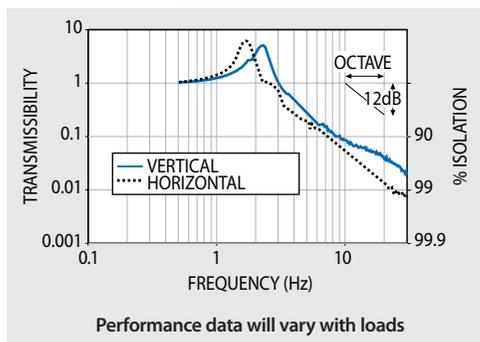
*Typical OEM application.  
Photo courtesy of Warner Instruments.*



MODEL 2210-04-13

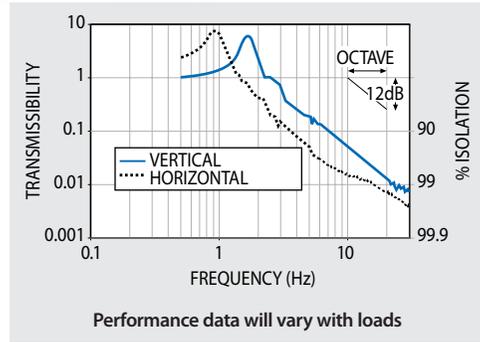
### Performance Data

MODELS 2210 and 2212



### Performance Data

MODEL 2214



## Specifications

### Min. Load @ 20 psi system pressure

Vertical Natural Frequency	2.3 Hz
Isolation Efficiency @ 5 Hz	52%
Isolation Efficiency @ 10 Hz	83%
Horizontal Natural Frequency	2.9 Hz
Isolation Efficiency @ 5 Hz	40%
Isolation Efficiency @ 10 Hz	92%

### Max. Load @ 80 psi system pressure

Vertical Natural Frequency	2.1 Hz
Isolation Efficiency @ 5 Hz	70%
Isolation Efficiency @ 10 Hz	91%
Horizontal Natural Frequency	1.8 Hz
Isolation Efficiency @ 5 Hz	81%
Isolation Efficiency @ 10 Hz	95%

### Net Load Capacity @ 80 psi

2212-02/03	450 lbs.	(204 kg)
All Others	200 lbs.	(91 kg)

### Finish:

Standard Class 10	Linear White Polyurethane White Epoxy Powder Coat
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### Approximate. Shipping Weight:

2210-01-xx	157 lbs.	(72 kg)
2210-04-xx	107 lbs.	(49 kg)
2212-01-xx	157 lbs.	(72 kg)
2212-02-xx	210 lbs.	(96 kg)
2212-03-xx	245 lbs.	(112 kg)
2212-04-xx	145 lbs.	(66 kg)
2214-01-xx	157 lbs.	(72 kg)

Note: Typical performance efficiencies are for microdisturbances

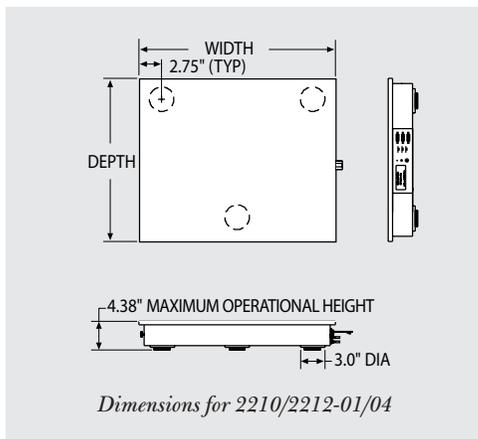
## Applications

(Partial List)

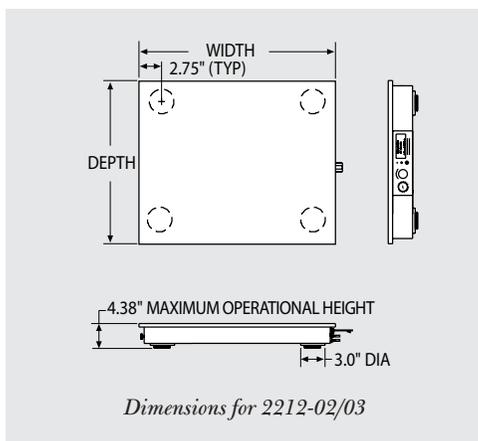
Atomic Force Microscopes, Microhardness Testers, Profilometers, Balances, Audio Equipment, and other Precision Measuring and Testing Equipment.



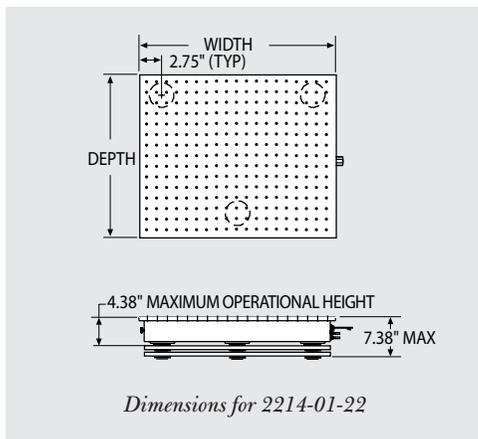
## Dimensions



## Dimensions



## Dimensions



## Ordering Information

22   -   -

### Configuration

- 10 = Passive-Air
- 12 = Active-Air
- 14\* = Active-Air with enhanced horizontal isolation

### Tabletop Size (depth x width)

- 01 = 20" x 24" (508mm x 609mm) All
- 02 = 24" x 30" (609mm x 762mm) 2212 only
- 03\* = 24" x 36" (609mm x 914mm) 2212 only
- 04 = 16" x 19" (406mm x 482mm) 2210 / 2212 only

\*Special Order

### Top Description

- 11 = White plastic laminate
- 12 = Ferromagnetic stainless steel
- 13 = Black plastic laminate
- 14 = White antistatic laminate
- 22 = Ferromagnetic stainless steel with 1/4"-20 x 1" centers (SPILLPRUF)
- 25 = Ferromagnetic stainless steel with 1/4"-20 x 0.5" centers (SPILLPRUF) MaxxAlign
- 32 = Ferromagnetic stainless steel with M6 holes x 25mm centers (SPILLPRUF)
- 35 = Ferromagnetic stainless steel with M6 holes x 12.5mm centers (SPILLPRUF) MaxxAlign

### Optional Accessories

- Hand Pump = HP
- Portable Air Compressor = PAC