

# 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.

MODEL 2214-01-22



MODEL 2212-01-22



MODEL 2210-01-11



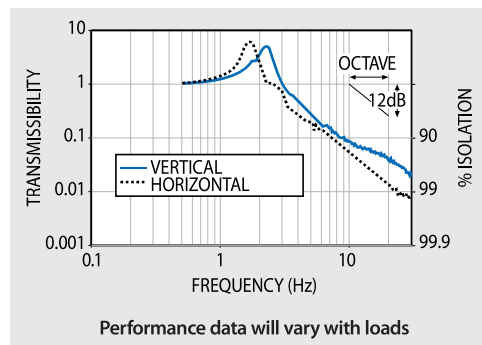
Typical OEM application. Photo courtesy of Warner Instruments.



MODEL 2210-04-13

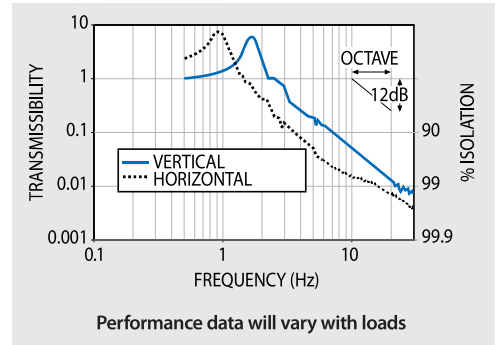
### Performance Data

MODELS 2210 and 2212



### Performance Data

MODEL 2214



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

## 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

### 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

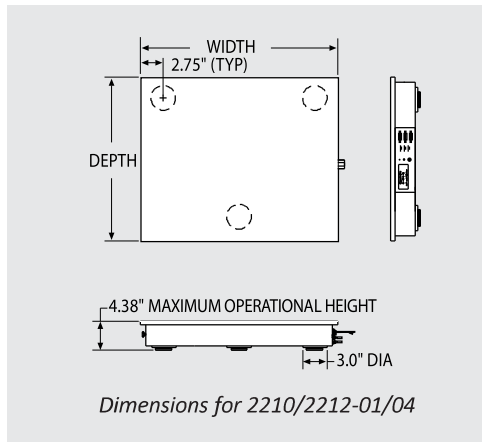
## Applications

(Partial List)

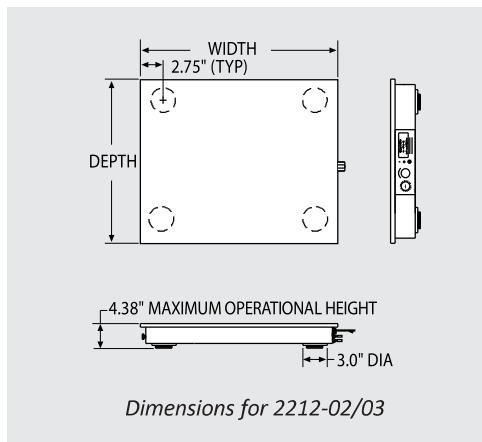
Atomic Force Microscopes, Microhardness Testers, Profilometers, Balances, Audio Equipment, and other Precision Measuring and Testing Equipment.



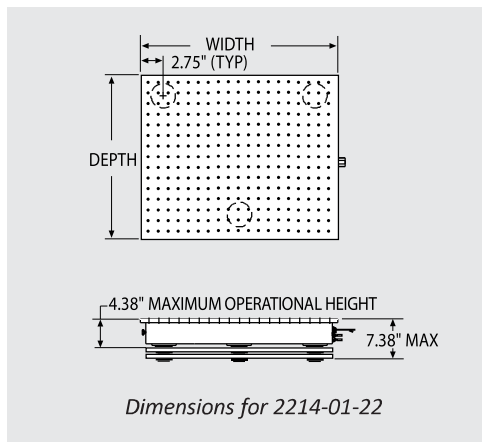
## Dimensions



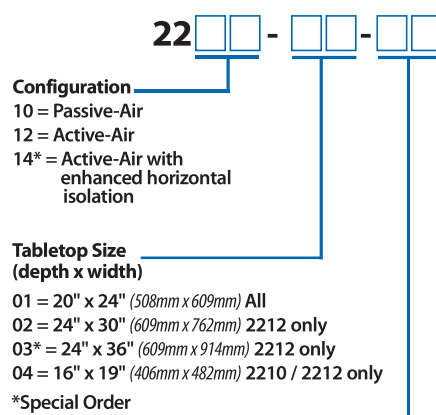
## Dimensions



## Dimensions



## Ordering Information



- 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