



Micro-g[®] Isolators for OEM

High Performance Vibration Isolators for in-tool applications in a range of capacities and damping levels

The TMC Advantage

Designed specifically for OEM applications

Supporting payloads ranging from 90 kg to 8,200 kg (200 to 18,000 lb.)

Delivers a high level of vibration attenuation, even in quiet environments

Multiple levels of damping to choose from

Multiple versions of height control

Isolator designs are interchangeable.

Easily accommodates changes of requirements without costly tool redesign



TMC pneumatic vibration isolation systems are the solution of choice for tool designers seeking superior vibration isolation of ultra-precision instruments. TMC now offers our industry standard Gimbal Piston™, MaxDamp®, and UltraDamp™ isolators in a convenient range of capacities, damping levels and leveling versions to suit a wide-range of applications.

Ideal for OEM applications, these isolators are offered in a modular, interchangeable, and upgradable design. And, to ensure you specify a version that will meet your settling time and isolation requirements, TMC engineers can model your configuration with our “Moving Stage Application Model.”

Four Capacities:

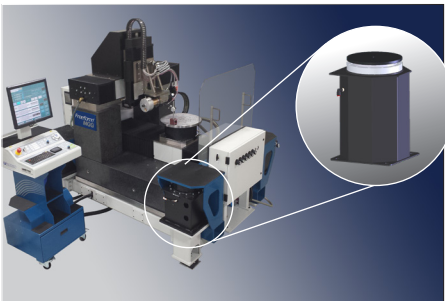
- 160 kg (350 lb.) @ 5.50 kPa (80 PSI)
- 450 kg (1000 lb.) @ 5.50 kPa (80 PSI)
- 1150 kg (2500 lb.) @ 5.50 kPa (80 PSI)
- 2600 kg (5700 lb.) @ 5.50 kPa (80 PSI)

Three Damping Levels:

- Gimbal Piston™ for maximum vibration attenuation
- MaxDamp® for high damping of resonance
- UltraDamp™ for highest damping of resonance

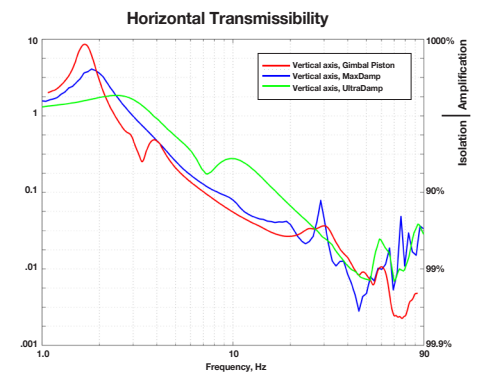
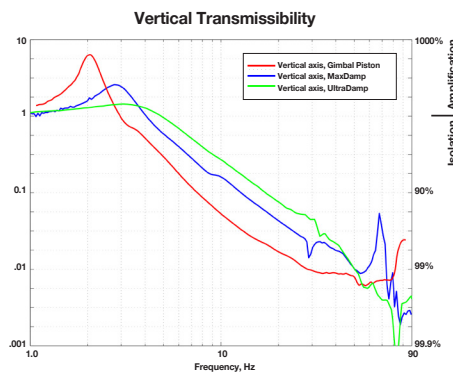
Three Leveling Options:

- Standard Height Control (+/- 2.5 mm, +/- 0.1 in.)
- Precision Height Control Valves (+/- 0.25 mm, +/- 0.01 in.)
- PEPS® II Non-contact – Precision Electronic Positioning System (+/- 0.0025 mm, +/- 0.0001 in.)



TMC isolators available with UltraDamp™, MaxDamp®, or Gimbal Piston™ damping levels. Shown above is Ametek Precitech's Freeform MGG microgroove generator for machining grooves on flat and freeform surfaces.

Three damping levels. Choose maximum vibration attenuation or aggressive damping for applications with moving stages or robotic motion.



Isolator Ordering Chart

Capacity	Gimbal Piston	MaxDamp	UltraDamp
160 kg (350 lb.)	62GP-0160	62MD-0160	62UD-0160
450 kg (1000 lb.)	62GP-0450	62MD-0450	62UD-0450
1150 kg (2500 lb.)	62GP-1150	62MD-1150	62UD-1150
2600 kg (5700 lb.)	62GP-2600	62MD-2600	62UD-2600
Air Input Usage	Standard Valves – 0.042 lpm or 0.0015 cfm Precision Valves – 0.42 lpm or 0.015 cfm PEPS II – 57 lpm or 2 cfm		

Height Control Ordering Chart

Height Control Type	Part Number
Standard Valves	SV62
Precision Valves	PV62
PEPS II	PEPS62

Custom configurations are easily accommodated. If you don't see exactly what you need, contact our Application Engineering Team.