

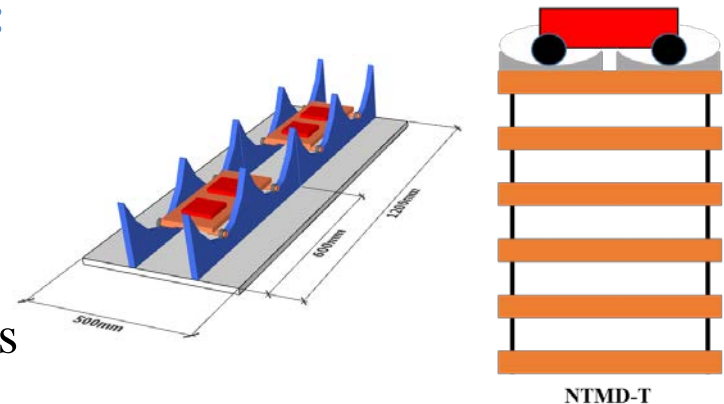
Nonlinear Tuned Mass Damper



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- **Track-type nonlinear tuned mass damper:**

- ✓ Three segmental shapes
 - Spherical around the center against low-moderate earthquakes
 - Lower-order polynomial function against moderate-strong earthquakes
 - Higher-order polynomial function against extreme earthquakes



- **Experimental validation:**

- ✓ Small-scale building using uniaxial shake table testing
- ✓ Full-scale nonlinear tuned mass damper using real-time hybrid simulation

