

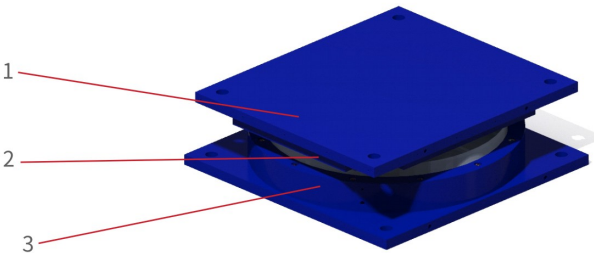


INFRASTRUCTURE BEARERS

APPLICATIONS ▶▶▶

Support infrastructure or instruments that are sensitive to vibration.

CONFIGURATION ▶▶▶



- 1. Top plate - vertical support and horizontal sliding or restraint function;
- 2. Vibration isolating system - Flexibility in both vertical, shear planes and energy dissipation;
- 3. Bottom plate - vertical support and horizontal restraint.

FUNCTIONS ▶▶▶

- Type A - Friction pendulum bearer: Transmits the seismic energy into thermal energy through a special high heat resistant, friction and wear-resistant material. the pendulum structure is able to self-recover after earthquake;

Characteristics:	maximum Vertical load $\geq 100000\text{kN}$	maximum shear displacement $\geq 1\text{m}$
	isolation period = 2s-6.3s	friction coefficient = 0.02-0.1
	Design life ≥ 50 years;	

- Type B - Rubber bearer: Provide low horizontal shear stiffness and take high vertical load;

Characteristics:	max vertical load $\geq 45000\text{kN}$	max shear deformation $\geq 450\%$
	Design life ≥ 70 years;	

- Type C - Vertical damping spherical bearer: Provide suitable vertical stiffness and reduce vertical vibration transmission;

Characteristics:	max vertical load $\geq 100000\text{kN}$	max shear load $\geq 40000\text{kN}$
	max vertical stiffness $\geq 1000\text{kN/mm}$	Design life ≥ 50 years;

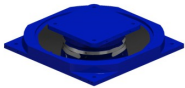
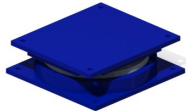
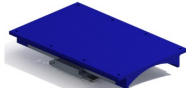
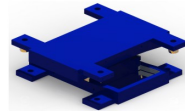
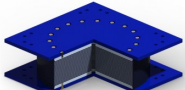
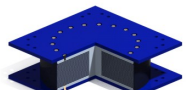
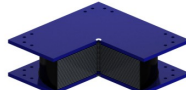
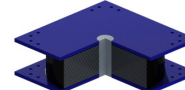
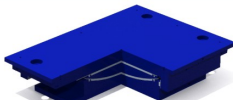
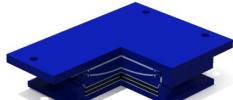


INFRASTRUCTURE BEARERS

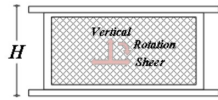
CAPABILITY AND EXPERIENCE ▶▶▶

- Annual output of 100,000 units, 60-day lead time, 52000kN testing machine, global service after-sale;
- Satisfy the regional national standards such as EN1337, EN 15129, AASHTO LRFD, AASHTO GSID, etc;
- Used across 6 continents since 2007, apply to different projects such as Hong Kong-Zhuhai-Macao Bridge, Singapore offshore operation platform project, Taiwan Apple Building construction TMD project, South Korea highway project, etc.

INFRASTRUCTURE BEARER TYPES ▶▶▶

Type A			
			
A.1(Single type)	A.2(Disconnect type)	A.3(Large stiffness type)	A.4(Cross type)
Type B			
			
B.1(LNR/HDR(I))	B.2(LRB(I))	B.3(LNR/HDR(II))	B.4(LRB(II))
Type C			
			
C.1(Spherical Bearer)		C.2(Vertical Damping Spherical Bearer)	

PLEASE FILL THE TABLE BELOW FOR ANY FURTHER ENQUIRY ▶▶▶

Infrastructure Bearers					
					
Max vertical load F_v (kN)		Max shear load F_s (kN)		Max rotation θ (Rad)	Max shear displacement Δs (mm)
Vertical stiffness k_v (kN/mm)		Shear stiffness k_s (kN/mm)		Height H (mm)	Damping ratio ξ (%)

Product details can be found in website: <http://www.zztmt.com/zztmt/>