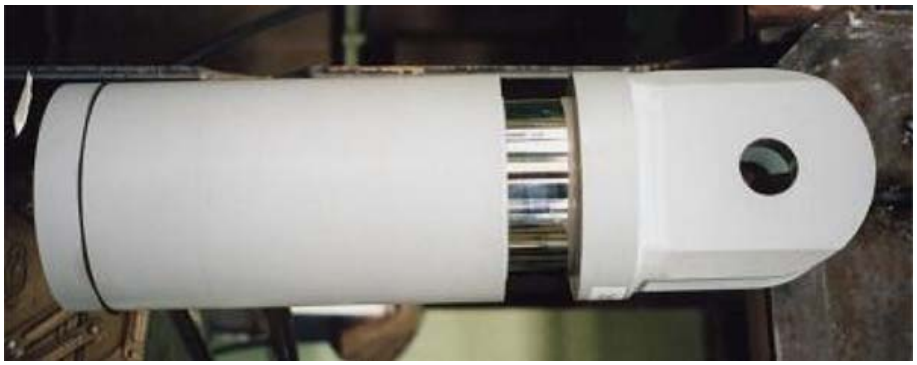
Friction damper

Outline

- Energy absorption material mainly used for the reinforcement of friction control for existing buildings.
- Used for a supplementary construction works for buildings.
- More than 1,000 pcs have been supplied, especially for the reinforcement of primary and junior high schools across the country.
- Applicable to RC and iron frame, depending on the length of stroke.

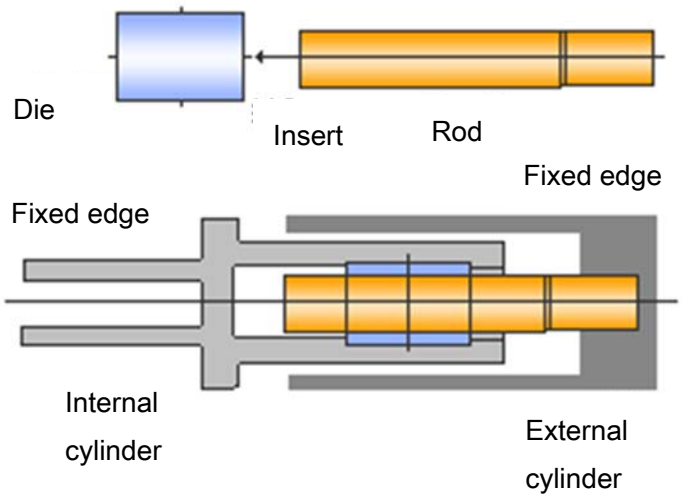
Friction damper

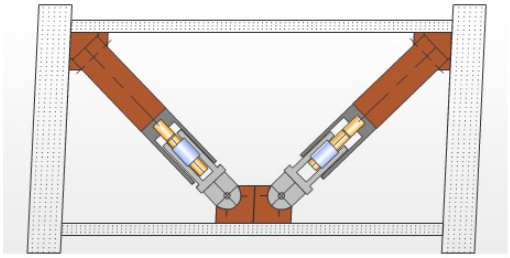


Feature

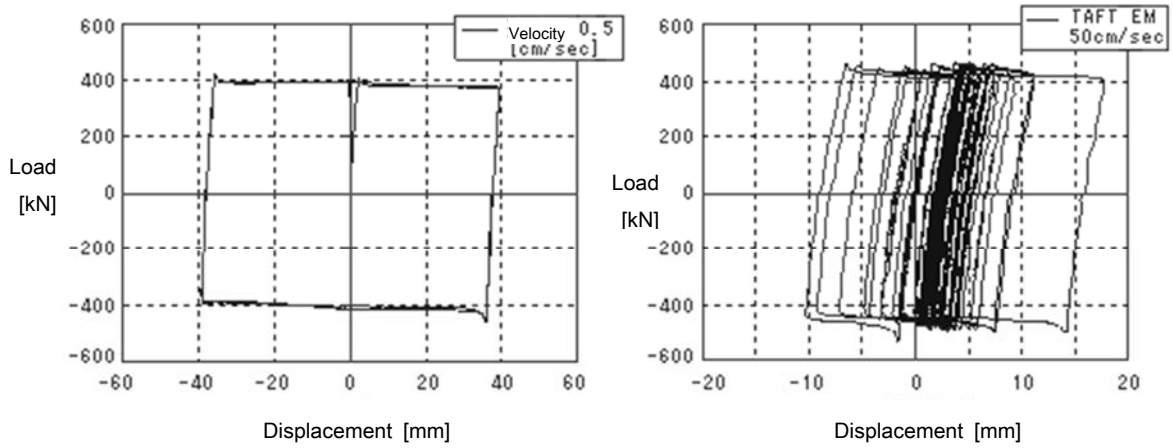
- Simple structure putting metal rod into a die, covering internal and external cylinder, and fixing both edges.
- Converting a seismic energy into heat energy by the friction between a rod and die, and then absorbing it.
- Rigid-plastic solid which has high initial stiffness in hysteresis characteristics of displacement and loading history curve.
- In comparison with the capacity of energy, this damper has simple appearance which provide no oppressive feeling to people.

◆ Composition of friction damper





◆ Data table of friction damper

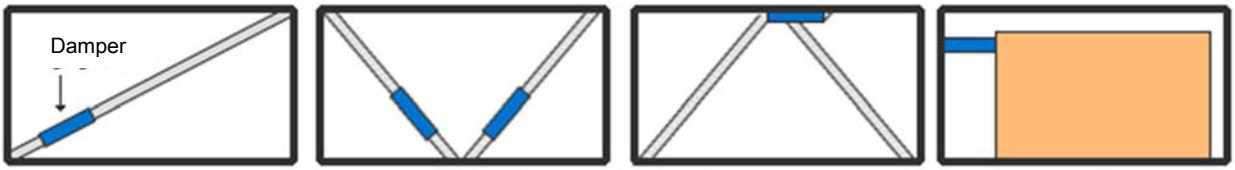


Displacement – load history

Specification

Friction load	Max stroke record	Note
100kN	±100mm	■ Manufacturing record for the outer size; φ165~215mm ■ Although initial stiffness depends on a shape and the connection method of external parts, single unit comes approx. 1000kN/mm in the case of 300kN ±40mm φ195mm
200kN	±100mm	
300kN	±50mm	
400kN	±50mm	
Applicable to various types of reinforcement by changing the shape of cover.		

◆ Example of application



Brace integrated type　　Brace coupling type　　Wall coupling type

Manufacturer:

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