

# Rubber Vibration Isolation Hanger

# TSH Series

Higher vibration absorption.



## Benefit

- The new structural design with excellent metal spring in rust proof and corrosion resistance
- Excellent vibration isolating performance
- Low cost, high performance

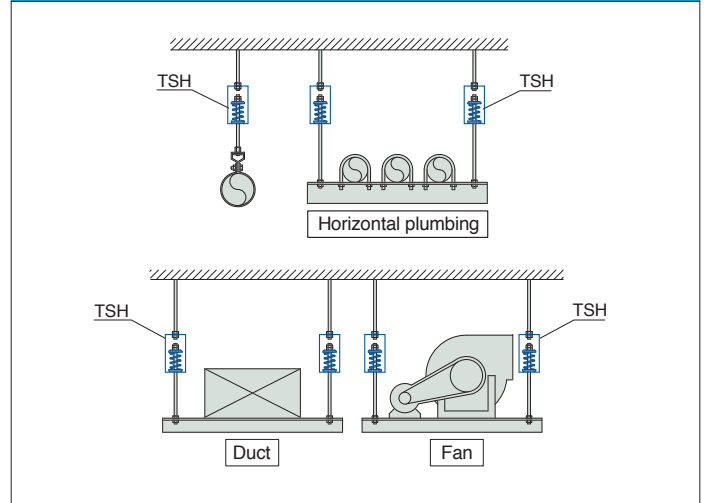
## Feature

- A variety of rubber parts bring great effect to the vibration from low/high frequency wave and to noise control.
- Long lasting metal spring. Rust proof and corrosion resistance by attaching rubber boots. (TSH-090H~TSH-300H)
- Hanger fitting (standard accessory) has the same external dimension. Small and light feature will offer you an easy construction.
- Low cost can be achieved by using common parts

## Intended Purpose

Used as supporting device of the followings:  
horizontal plumbing, duct, fan, fan coiled unit, ceiling equipment and A/C.

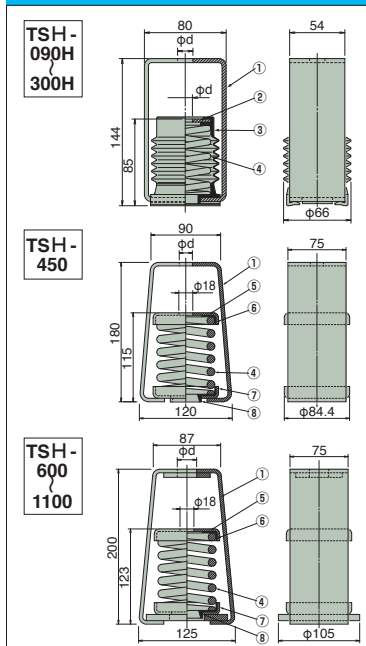
## Typical applications



## Structure and dimension

Type	Dimension (mm)		adapting bolt dimension	Spring constant N/mm (kgf/mm)	Load range of usage N (kgf)	Natural frequency Hz
	φd					
TSH-090H	15	φ66	M12 (W1/2)	60.7 (6.19)	588~912 (60~93)	5.1~4.1
TSH-130H				87.5 (8.92)	912~1314 (93~134)	4.9~4.1
TSH-200H				130 (13.3)	1314~1961 (134~200)	5.0~4.1
TSH-250H				164 (16.7)	1961~2452 (200~250)	4.6~4.1
TSH-300H				196 (20.0)	2452~2942 (250~300)	4.5~4.1
TSH-450 ※	17	φ84.4	M16 (W5/8)	177 (18.0)	2942~4413 (300~450)	3.9~3.2
TSH-600 ※				235 (24.0)	3923~5884 (400~600)	3.9~3.2
TSH-825 ※				324 (33.0)	5394~8090 (550~825)	3.9~3.2
TSH-1100 ※	25	φ105		431 (44.0)	7355~10787 (750~1100)	3.8~3.2

※Make-to-Order Products (Please ask for delivery date)  
Note: For choosing TSH, detailed calculation will be needed in centroid position or tension by hanging bolts when using air conditioning device. Please ask for more detail to our sales representative.



Number	Name	Material
①	Hunger	SS400
②	Plate	SS400
③	Rubber cover	Synthetic rubber
④	Spring	Hard steel wire
⑤	The upper side of cap	SS400
⑥	Upper rubber sheet	Synthetic rubber
⑦	The lower side of cap	SS400
⑧	Lower rubber sheet	Synthetic rubber

●The metal component except coil spring portion is covered by electrolytic zinc-coated.

※TSH-450/600/825/1100 are make-to-order products. Please ask for delivery date.

## Handling instructions

- The spring needs the equable loading to vertical and compression direction.
- Please make sure to use the device within a given load range.
- The product must be attached with double nut.
- When supporting pipes, pulps, flange and the other weights need to be considered for calculation.
- Product should be chosen after calculating the load weight to the each hanging bolt when the multiple pipes are hung all together.
- The impact or excessive force could lead to release the parts from assembled product.

This brochure may be revised without prior notice. We apologize in advance for any inconvenience this may cause.

Agent

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