

Floor Mounting Spring Isolator

# TS Series

All product lineups offer highly controllable vibration absorbing devices.



Please feel free to ask us: products related anti surging mechanism to high-frequency vibration can be provided.

## Benefit

- Suitable for outdoor use
- Compatible with any type of equipment
- Scaled for deflection amount of spring

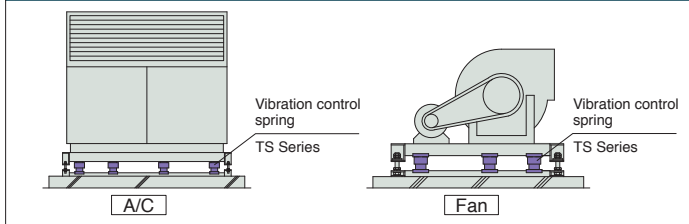
## Feature

- Weather proof resin case is used that can be available at outside. (\*TS-4/5-TLS are used metal case)
- Special seal rubber ring is attached that makes rust proof inside the spring. (TS-1•TS-2•TS-3)
- The most appropriate spring can be chosen for vibration control of facility equipment based on your purpose.
- Easy to find out allocation balance of vibration control as it is scaled for deflection amount of spring.

## Applications

Used for pump unit, fan, package A/C, chilling unit, A/C, cooling tower.

## Typical applications



## Reference selection chart

	TS-1	TS-2	TS-3	TS-4/5	TS-B	TLS
Internal coil spring (carbon steel)	○	○	○	○	○	○
Load range (Kg)	10~300	10~197	125~290	90~570	10~466	20~550
Natural frequency (Hz)	4~5	3~4	2.5~3	1.8~2.5	4~5	3.5~4.5

## Dimension/performance

TS-1series			TS-2series			TS-3series			TS-Bseries			TLSeries		
Type	Spring constant N/mm(kgf/mm)	Allowable load N(kg)	Type	Spring constant N/mm(kgf/mm)	Allowable load N(kg)	Type	Spring constant N/mm(kgf/mm)	Allowable load N(kg)	Type	Spring constant N/mm(kgf/mm)	Allowable load N(kg)	Type	Spring constant N/mm(kgf/mm)	Allowable load N(kg)
TS-101	3.92 (0.40)	94.1 (9.6)	TS-206	3.14 (0.32)	103 (10.5)	TS-310H	24.5 (2.50)	1226 (125)	TS-006B	3.92 (0.40)	98.1 (10.0)	TLS-0205	8.14 (0.83)	204 (20.8)
TS-103	5.69 (0.58)	136 (13.9)	TS-207	3.82 (0.39)	126 (12.8)	TS-312H	34.3 (3.50)	1716 (175)	TS-007B	4.71 (0.48)	118 (12.0)	TLS-0305	11.8 (1.20)	294 (30.0)
TS-105	8.14 (0.83)	195 (19.9)	TS-208	4.61 (0.47)	152 (15.5)	TS-314H	44.1 (4.50)	2206 (225)	TS-009B	5.69 (0.58)	142 (14.5)	TLS-0365	14.1 (1.44)	353 (36.0)
TS-107	11.8 (1.20)	282 (28.8)	TS-209	5.49 (0.56)	203 (20.7)	TS-316H	58.8 (6.00)	2844 (290)	TS-011B	6.77 (0.69)	170 (17.3)	TLS-0525	20.3 (2.07)	510 (52.0)
TS-108	14.1 (1.44)	338 (34.5)	TS-210	6.57 (0.67)	217 (22.1)	TS-4/5series			TS-013B	8.14 (0.83)	204 (20.8)	TLS-0755	29.4 (3.00)	735 (75.0)
TS-109	17.0 (1.73)	407 (41.5)	TS-211	7.85 (0.80)	290 (29.6)				Type	Spring constant N/mm(kgf/mm)	Allowable load N(kg)	TS-015B	9.81 (1.00)	245 (25.0)
TS-110	20.3 (2.07)	485 (49.5)	TS-212	9.51 (0.97)	351 (35.8)	TS-4068	11.2 (1.14)	883 (90.0)	TS-018B	11.8 (1.20)	294 (30.0)	TLS-1555	60.7 (6.19)	1520 (155)
TS-111	24.4 (2.49)	585 (59.7)	TS-213	11.4 (1.16)	421 (42.9)	TS-4082	13.5 (1.38)	1069 (109)	TS-020B	14.1 (1.44)	353 (36.0)	TLS-2235	87.5 (8.92)	2187 (223)
TS-112	29.4 (3.00)	706 (72.0)	TS-214	13.6 (1.39)	504 (51.4)	TS-4100	16.4 (1.67)	1285 (131)	TS-025B	17.0 (1.73)	425 (43.3)	TLS-3306	127 (12.9)	3168 (323)
TS-113	35.1 (3.58)	842 (85.9)	TS-215	16.4 (1.67)	605 (61.7)	TS-4121	19.9 (2.03)	1569 (160)	TS-030B	20.3 (2.07)	508 (51.8)	TLS-4406	182 (18.6)	4570 (466)
TS-114	42.2 (4.30)	1010 (103)	TS-216	19.6 (2.00)	726 (74.0)	TS-4147	24.0 (2.45)	1893 (193)	TS-035B	24.4 (2.49)	611 (62.3)	TLS-5606	219 (22.3)	5472 (558)
TS-115	49.0 (5.00)	981 (100)	TS-217	23.5 (2.40)	871 (88.8)	TS-4178	29.1 (2.97)	2295 (234)	TS-045B	29.4 (3.00)	735 (75.0)			
TS-116	50.6 (5.16)	1216 (124)	TS-218	28.2 (2.88)	1044 (106.5)	TS-4215	35.2 (3.59)	2746 (280)	TS-055B	35.1 (3.58)	878 (89.5)			
TS-117	60.7 (6.19)	1451 (148)	TS-219	33.9 (3.46)	1255 (128.0)	TS-5261	42.7 (4.35)	3315 (338)	TS-065B	42.2 (4.30)	1049 (107)			
TS-118	73.5 (7.50)	1471 (150)	TS-220	40.7 (4.15)	1343 (136.9)	TS-5316	51.7 (5.27)	3756 (383)	TS-080B	50.6 (5.16)	1265 (129)			
TS-119	98.1 (10.0)	1961 (200)	TS-221	48.8 (4.98)	1611 (164.3)	TS-5463	75.7 (7.72)	5590 (570)	TS-090B	60.7 (6.19)	1510 (154)			
TS-121	186 (19.0)	2942 (300)	TS-222	58.6 (5.98)	1935 (197.3)				TS-110B	72.9 (7.43)	1814 (185)			
									TS-130B	87.5 (8.92)	2187 (223)			
									TS-150B	98.1 (10.0)	1961 (200)			
									TS-200B	130 (13.3)	2609 (266)			
									TS-250B	164 (16.7)	3275 (334)			
									TS-300B	196 (20.0)	3923 (400)			
									TS-350B	228 (23.3)	4570 (466)			

Each rubber mat is available fitting on the width of steel frame. Vibration control pedestal can be designed / manufactured with fitting in each device of features.

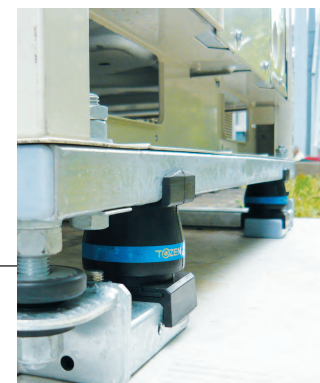
	For TS-1•2series		For TS-3series		For TS-1•2series		For TS-3series	
	L Shape	U Shape	L Shape	U Shape	L Shape	U Shape	L Shape	U Shape
30Width	L-30	U-30	-	-	60Width	-	U-60	UL-60
40Width	L-40	U-40	-	-	65Width	L-65	U-65	UL-65
50Width	L-50	U-50	UL-50	-	75Width	L-75	U-75	UL-75

● Please ask for more detail to our sales representative.

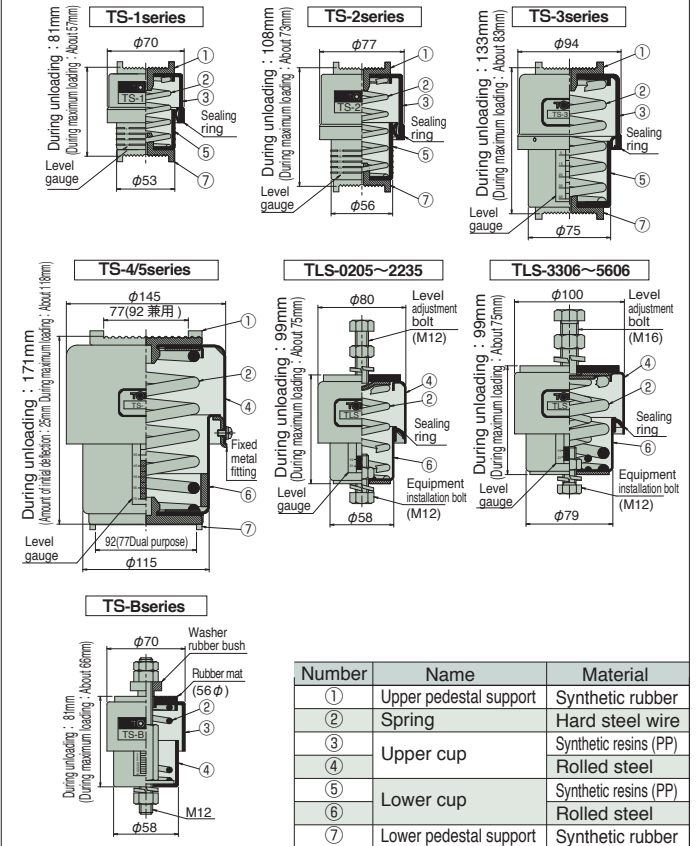
This brochure may be revised without prior notice. We apologize in advance for any inconvenience this may cause.

## Agent

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## Structure



- Please be considered to allocate vibration control device when you design vibration-free pedestal.
- The same external dimension is applied by each series.

Number	Name	Material
①	Upper pedestal support	Synthetic rubber
②	Spring	Hard steel wire
③	Upper cup	Synthetic resins (PP)
④	Upper cup	Rolled steel
⑤	Lower cup	Synthetic resins (PP)
⑥	Lower cup	Rolled steel
⑦	Lower pedestal support	Synthetic rubber