

Open Spring Mounts Types AW-2, 4, 6 & 9

25mm Static Deflection, Multiple Springs

APPLICATION

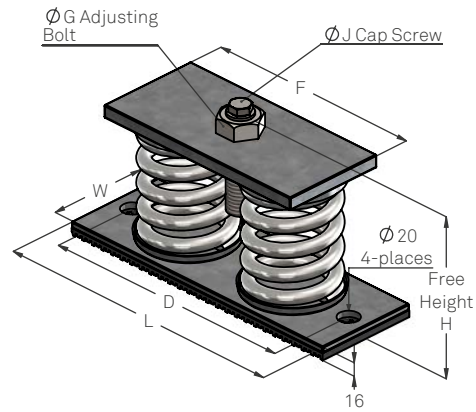
A range of heavy duty spring mounts for loads up to 11,475kg. Each provides a high degree of isolation. Typically used on cooling towers, large generator sets, building structures and heavy machinery.

FEATURES

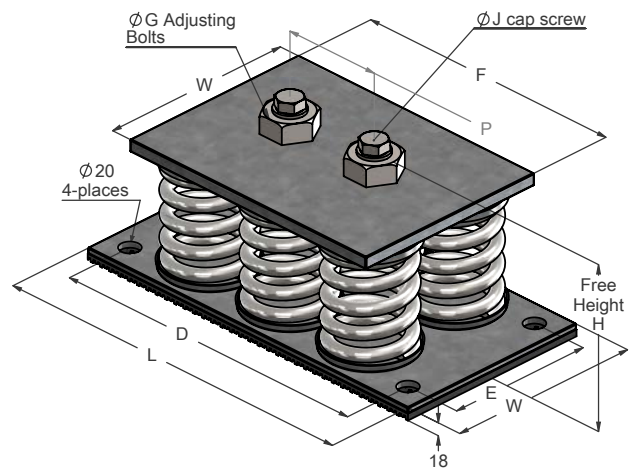
- Heavy duty stable steel springs
- Built-in leveling bolt with locking cap screw, capable of compensating for full static deflection
- Steel cup located springs allowing complete interchangeability
- Non-skid ribbed pad bonded to base

OPTIONS

- Additional layers of pad under the base



AW-2, 4



AW-6, 9

AW-2, 4, 6 & 9 Dimensions

Type	H mm	L mm	W mm	F mm	D mm	E mm	P mm	G Dia	J Dia.
AW-2	170	290	100	215	250	-	-	M24	M12
AW-4	180	260	200	200	220	-	-	M30	M16
AW-6	185	380	200	280	330	150	100	M30	M16
AW-9	195	460	300	360	410	200	140	M36	M16

AW-2, 4, 6 & 9 PRODUCT GUIDE

Type	Max Load kg	Static Deflection mm	Spring Constant kg/mm	Spring Colours	
				Outer	Inner
AW-2-1000	900	25	36	Green	-
AW-2-1023	1,020	25	41	Green	Yellow
AW-2-1025	1,160	25	46	Green	Red
AW-2-1026	1,380	25	55	Green	White
AW-2-1600	1,550	25	62	Grey	-
AW-2-1624	1,750	25	70	Grey	Green
AW-2-1626	2,000	25	80	Grey	White
AW-2-1628	2,300	24	96	Grey	Grey
AW-2-1731	2,550	20	128	Orange	Grey/Yellow
AW-4-1000	1,800	25	72	Green	-
AW-4-1023	2,040	25	82	Green	Yellow
AW-4-1025	2,320	25	93	Green	Red
AW-4-1026	2,760	25	110	Green	White
AW-4-1600	3,100	25	124	Grey	-
AW-4-1624	3,500	25	140	Grey	Green
AW-4-1626	4,000	25	160	Grey	White
AW-4-1628	4,600	24	192	Grey	Grey
AW-4-1731	5,100	20	255	Orange	Grey/Yellow
AW-6-1000	2,700	25	108	Green	-
AW-6-1023	3,060	25	122	Green	Yellow
AW-6-1025	3,480	25	139	Green	Red
AW-6-1026	4,140	25	166	Green	White
AW-6-1600	4,650	25	186	Grey	-
AW-6-1624	5,250	25	210	Grey	Green
AW-6-1626	6,000	25	240	Grey	White
AW-6-1628	6,900	24	287	Grey	Grey
AW-6-1731	7,650	20	383	Orange	Grey/Yellow
AW-9-1000	4,050	25	162	Green	-
AW-9-1023	4,590	25	184	Green	Yellow
AW-9-1025	5,520	25	209	Green	Red
AW-9-1026	6,210	25	248	Green	White
AW-9-1600	6,975	25	279	Grey	-
AW-9-1624	7,875	25	315	Grey	Green
AW-9-1626	9,000	25	360	Grey	White
AW-9-1628	10,350	24	431	Grey	Grey
AW-9-1731	11,475	20	574	Orange	Grey/Yellow

DESIGN

All type AW spring mounts are designed with a horizontal to vertical stiffness ratio between 0.9 and 1.1 at rated load; ratio of spring diameter to loaded height minimum 0.8; and a rated maximum operating deflection of 2/3 deflection to solid.

The springs are located in steel cups welded to the top and bottom plates. This design allows quick changeover of springs if actual loads on mounts are at variance with estimates, this allows a close match of static deflections on all points of support to meet design.

ACOUSTICAL ISOLATION

Steel spring mounts provide effective isolation of mechanical vibration. However, the spring itself has its own inherent surge frequency depending on its physical geometry and material properties. As such, it is possible to transmit certain audible level frequencies.

To minimise these audible level transmissions, all mounts are fitted with a resilient rubber base. For type AW mounts, the standard base has a theoretical effectiveness of 95% to 98% in isolating such transmissions.

If greater high frequency isolation is required, a second layer of pad is attached to the base, separated from the first by a 1.5mm metal shim plate.

MOUNT SELECTION

When selecting mounts, it is recommended that a safety factor of 10-20% is applied to the calculated mass of equipment to avoid overloading of mounts. If maximum rated deflections are required, then equipment should be weighed and an accurate assessment of point loads made.

For equipment using more than four mounts, endeavour to distribute them so that each mount has equal loading. If this cannot be done, mount selection must be made on the basis of matching static deflections as closely as possible.

INSTALLATION

1. Remove cap screw and washer.
2. Locate mount under hole in equipment leg or base (see note below).
3. Replace cap screw and washer but do not tighten.
4. Raise equipment to desired elevation and level by turning adjusting bolt anticlockwise to raise.
5. Tighten cap screw to lock assembly.

NOTE:

1. It may be necessary to lift or block up equipment to place mount in position.
2. The equipment is supported on the head of the bolt(s).

BOLTING DOWN

If bolting is required, the lower plate must be located and fastened to the floor before equipment is placed on its mounts. Bolts must only be tightened a half turn more than hand tight. An isolation sleeve should be used to prevent the transmission of acoustical frequencies by metal to metal contact between the bolt and the mount, see Datasheet IS for details.

RECOMMENDED FASTENINGS

- All mounts: M12

Refer to Datasheet IS for type IS Isolating Sleeve kits for full rubber isolation of the bolt fastening.

TECHNICAL ASSISTANCE

All Embelton offices can provide detailed technical assistance on the use of this product in specific applications.

CONDITIONS OF SALE

These products are sold subject to the published Embelton General Conditions of Sale, copies of which may be inspected on request.

SPECIFICATION

Spring mounts shall be free standing and laterally stable without any housing, incorporating a 6mm minimum ribbed non-skid acoustical base pad. Mounts shall have an inbuilt leveling facility capable of compensating for the rated spring design deflection and of being locked into position. Springs shall have a minimum additional travel to solid of 50% rated deflection and a diameter not less than 0.8 of loaded height; they shall be type AW as supplied by Embelton.