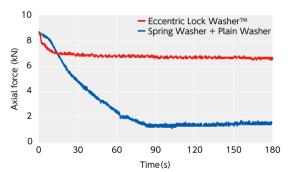


Precautions for Use

- Dedicated for hexagon nuts. Do not use on head side of hexagon head bolts.
- After tightening, use bolts with length sufficient to ensure screw thread pitches of 3 or more extending beyond the hexagon nuts.
- Do not use with other washers such as plain washers.
- When using half-thread bolts, confirm that the eccentric washer is in the screw thread part.
- \bullet Bolt damage may ensue due to product properties.



- Vibration resistant treatment effect can be achieved simply by using commercially available hexagon nuts.
- Hexagon nuts can be tightened by hand until tightening force applies, for simple mounting.
- Use the receiving washer and eccentric washer as a set.
- Passes NAS-type vibration tests (NAS3350).
- Vibration resistant treatment effect has also been confirmed with the Junker test.



Test conditions

Bolt size: M10 - 40

Distance between washer surfaces: 24mm

Amplitude: ±0.43mm Vibration: 3.3Hz Test time: 180 sec

Application

Vibration resistant treatment

Material/Finish		Rol
	SWAS-EW	
Receiving Washer	SUS304	
Eccentric Washer	SUS304	

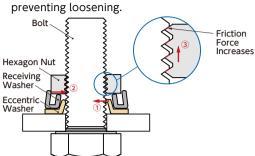
											Unit:mm
Part Number	Nominal	D	d	В	С	tı	t2	t	Reference tightening torque (N·m)	Mass (g)	Qty per pack
SWAS-6-EW	6	12	6.05	11.6	13.3	2.65	2.9	3.9	10	1.5	100
SWAS-8-EW	8	17	8.1	15	17.3	3.3	3.9	5.1	28	3.5	100
SWAS-10-EW	10	21	10.2	19.8	22.8	4.05	4.8	6.2	55	7.2	100
SWAS-12-EW	12	24	12.2	22	25.4	4.5	6	7.5	90	11	100

- One bag contains a 100-piece set of bearing washers and eccentric washers.
- When purchasing less volume than one full bag, a separate handling fee is charged. For details, see the Sold Separately Service.

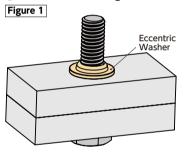
1 Individual Sales → P.xxxx	Cleanroom Wash & Packaging → P.xxxx	Screw Length Adjustment → P.xxxx	Vibration Resistant → P.xxxx P.xxxx Output Description P.xxxxx Output Description P.xxxxx P.xxxx P.xxxxx P.xxxxx P.xxxxx P.xxxxx P.xxxxx P.xxxxx P.xxxx P.xxxxx P.xxxx P.xxxxx P.xxxx P.xxxxx P.xxxxx P.xxxxx P.xxxxx P.xxxxx P.xxxxx P.xxxx P.xxxxx P.x	Modification process for captive use → P.xxxx
Available / Add'l charge	Available / Add'l charge	Not Available	Not Available	Not Available

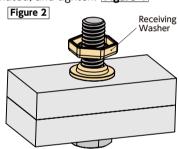
Structure

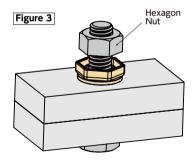
- 1) Tightening hexagon nuts causes eccentric washers to bite into bolts.
- ②Receiving washers press hexagon nuts into bolts.
- ③Receiving washers then press hexagon nuts upward, increasing friction between hexagon nuts and bolts and

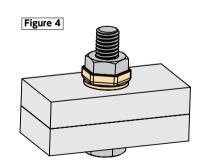


- Installation Method
- ①Mount eccentric washers with convex side upward. Figure 1
- ②Mount receiving washers with concave side upward. Figure 2
- 3 Screw in hexagon nuts until they lightly contact receiving washers. Figure 3
- (4) Check that receiving washers and hexagon nuts are mated, and tighten. Figure 4









• Part number specification



