

# ASFA WP

## Best of both Axial force and Waterproof

With the electrification of automobiles, water-cooled thermal controls are on the rise. Even for fastening parts, there is a growing need for both waterproofing and axial force. This product is a new concept waterproof screw that incorporates a flat washer in addition to an O-ring.

By securing a sufficient contact surface, the screw can be fastened with a higher axial force without denting the clamped part.

In addition, the O-ring is positioned around the periphery of the screw head, ensuring consistent water sealing performance even if misalignment of fasteners occurs.

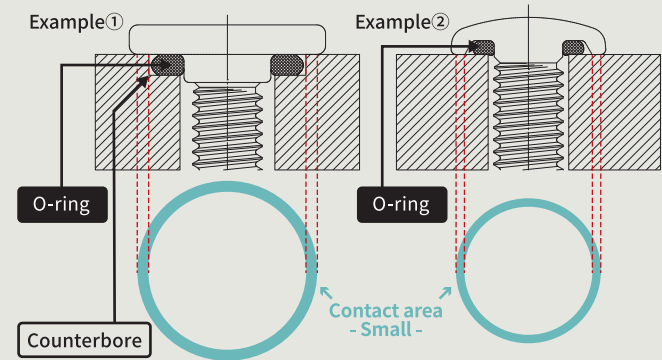
Also in the automatic screw fastening process, the flat washer(metal) contacts the chute rail of the screw feeder, prevents screw jamming.

## Point 1

## Axial force

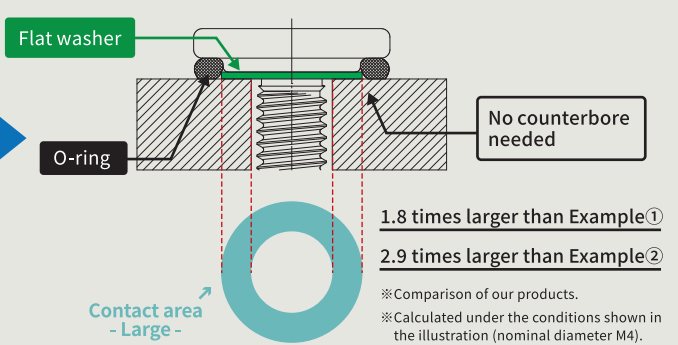
### Conventional Product

The contact surface on the head is small and the screw cannot be fastened with high axial force due to a risk of denting the clamped part.



### New Product

The large contact area with the clamped part reduces the risk of denting and enables fastening with higher axial force.

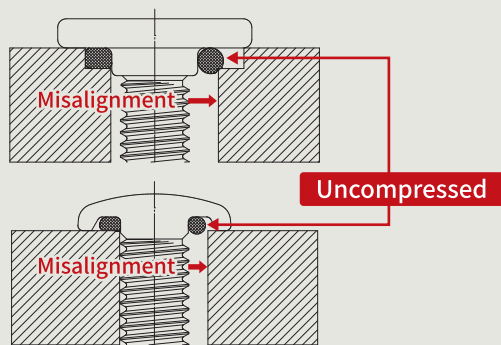


## Point 2

## Waterproof

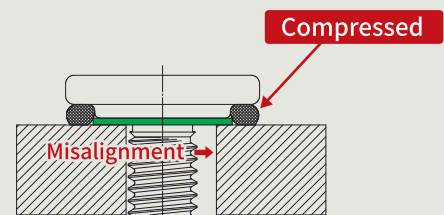
### Conventional Product

If misalignment of fasteners occur, the O-ring will not be compressed and waterproof performance cannot be ensured.



### New Product

Since the O-ring is positioned on the periphery of the screw head, it is unaffected by misalignment of fasteners. Therefore, the O-ring provides a consistent waterproof performance.

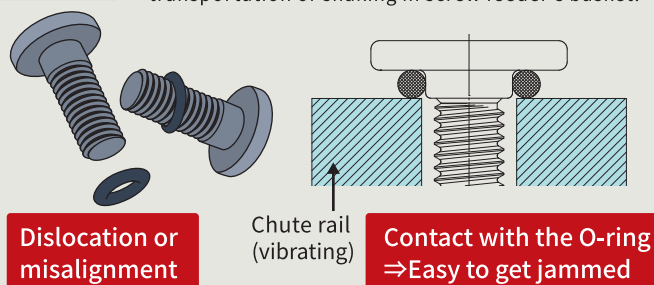


## Point 3

## Automation

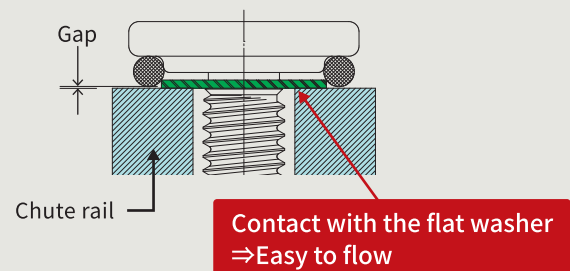
### Conventional Product

There is a risk of screw jamming on the chute rail of screw feeder due to misalignment of O-ring during transportation or shaking in screw feeder's basket.



### New Product

The flat washer holds the O-ring and prevents it from falling. In addition, by taking place contact surface from rubber to metal, it improves flow of screws on chute rail.



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