

WASHERS



Flat Washers

A flat washer has a constant thickness, provide a smooth bearing surface for fasteners and fixtures, to keep the screws head from pulling through soft materials.

They are inexpensive and NEVER affect the bolt preload.

Spring washers are disks of metal that are formed in an irregular shape so that when the washer is loaded, it act like a spring, and provides a preload between two surfaces.

Spring washers are typically used in applications where assemblies need a part to take up play, eliminate rattle, maintain assembly tension, compensate for expansion or contraction in materials after assembly, or to absorb intermittent shock loads and provide a controlled reaction under dynamic loads.



Spring Washers



Flat Washers



Flat Washers



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Flat Washers



E-clip Washers



Spring Washers



Flat Washers



Flat Washers