

Flat Washers and Spring Washers

DT Workshop Equipment Reference — D&T / STEM resource for school workshops | Fasteners & Hardware



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Flat washers spread bolt load across a surface and protect the workpiece, while spring (split) washers add tension to prevent nuts loosening under vibration. Both are stocked with the fastener kits in every size.

Key Features

- Metric sizes M2-M20
- Flat, spring and shake-proof types
- Zinc, stainless and brass finishes
- Dimensions to the washer standard
- Bulk pack quantities

Typical Uses in the Workshop

- Spread load under bolt heads and nuts
- Protect surfaces from damage
- Prevent loosening under vibration
- Space and shim components

Safe Operation

1. Select the washer size to match the bolt
2. Fit the washer under the head and/or nut
3. Stack flat washers where spaces are needed
4. Pull tension with the spring washer under the nut
5. Check the washer seats flat

SAFETY NOTES

- Do not use washers to hide short bolts
- Check the washer fits the bolt diameter
- Keep washers out of small children's reach
- Spring washers can snap - discard damaged
- Store sorted by size

Maintenance & Consumables

- Sort washers into the size bins
- Check flatness before reuse
- Restock the popular sizes
- Keep spring washers paired with nuts
- Do an inventory in the fastener cabinet

Specification & Buying Notes

Bulk assortments of flat and spring washers in the metric range cover most jobs. Quality washers are burr-free - they seat flat and do not cut the surface.