

Combination Ring and Open-End Spanner Sets

DT Workshop Equipment Reference — D&T / STEM resource for school workshops | Hand Tools



Photo: Fructibus — CC0 — via Wikimedia Commons (Set_of_six_combination_spanners.jpg)

Combination spanners have an open end on one side and a box ring on the other, each size in one tool, covering metric and imperial ranges from 6 to 24 mm. They are the backbone of every fastening job at machines, vehicles and assemblies.

Key Features

- Sizes 6-24 mm metric sets
- Open and ring ends at 15 degree offsets
- Chrome vanadium or chrome molybdenum steel
- Flank drive and off-corner designs
- Rails or cases for storage

Typical Uses in the Workshop

- Tighten and loosen nuts and bolts
- Break loose and final-torque fasteners
- Reach recessed nuts with the ring end
- Workshop and machine maintenance

Safe Operation

1. Select the exact size for the fastener
2. Use the ring end for breaking and final turns
3. Pull toward the open end's grip direction
4. Turn the wrench over for ratchet action
5. Keep the fastener square in the jaws

SAFETY NOTES

- Use the correct size - oversize slips and injures
- Do not use extension pipes on spanners
- Pull the wrench toward yourself
- Keep oil off the grips
- Do not use spanners as hammers

Maintenance & Consumables

- Wipe and oil after use
- Check the jaws for spread
- Keep the sets complete in their rail
- Store in order by size
- Replace worn or rounded tools

Specification & Buying Notes

Buy a full metric rail set 6-24 mm in quality steel plus the common imperial sizes. Flank-drive ring ends grip harder. One set per machine bay keeps tools honest.