

T-Nut and Fastener Assortments

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

T-nut and fastener assortments are organised collections of slide-in T-nuts, cap screws, washers and nuts for extrusion and robot builds, keeping the thousands of small fixings students need sorted by size. A well-stocked fastener system saves hours of searching.

Key Features

- Slide-in T-nuts for channel profiles
- Socket and hex cap screws in common sizes
- Split lock and flat washers
- Hex nuts and Nylock nuts
- Organised compartment cases

Typical Uses in the Workshop

- Fasten parts to extrusion frames
- Mount motors, brackets and sensors
- Build and reconfigure robot assemblies
- Teach fastener selection and torque

Safe Operation

1. Select the T-nut for the channel size
2. Drop it into the channel at the right position
3. Fit the bolt through the part and thread it
4. Tighten with the correct driver
5. Use Nylock or threadlock where vibration wins

SAFETY NOTES

- Keep small fasteners away from young children
- Use the correct size driver - stripped heads slip and cut
- Check the T-nut is seated before tightening
- Store fasteners in labelled cases
- Magnets around tables catch dropped screws

Maintenance & Consumables

- Keep the assortment sorted after use
- Restock the most used sizes
- Replace worn or stripped bolts
- Clean the cases periodically
- Do a termly fastener audit

Specification & Buying Notes

Buy assortments in compartment cases with the sizes the robot kits use (M3, M4, M5 with 8-20 mm lengths). Quality bolts and nuts avoid the stripped-head frustration of cheap fasteners.