

GT2 Timing Belts and Pulleys

DT Workshop Equipment Reference — D&T / STEM resource for school workshops | Robotics & Mechatronics

GT2 timing belts with toothed pulleys transmit drive without slip for 3D printers, CNC machines and any axis needing exact positioning. The 2 mm tooth pitch and fibreglass-reinforced belts suit light, precise open-loop drives.

Key Features

- 2 mm GT2 tooth profile
- Widths 6-16 mm
- Fibreglass and steel cord belts
- Aluminium and plastic pulleys
- Pitch counts for length selection

Typical Uses in the Workshop

- Drive 3D printer and CNC axes
- Move gantries and stages
- Synchronise dual axis drives
- Precise open-loop positioning

Safe Operation

1. Select the belt length by tooth count
2. Fit the pulleys on the shafts
3. Loop the belt over both pulleys
4. Tension firmly without stretching
5. Check tracking stays true

SAFETY NOTES

- Keep fingers clear of moving belts
- Check belt tension does not strain bearings
- Do not run with worn or cracked belts
- Guard exposed belt runs
- Replace stretched belts

Maintenance & Consumables

- Clean the belt teeth with a brush
- Check for cracking and wear
- Re-tension after bed changes
- Store belts coiled flat
- Keep spare belts and pulleys

Specification & Buying Notes

Match the pitch and width to the printer or machine. GT2 6 mm belts suit light printers; 9-16 mm for heavier axes. Buy quality fibreglass belts - cheap belts stretch.