

Laser Alignment Tools

DT Workshop Equipment Reference — D&T / STEM resource for school workshops | Measuring & Inspection

Laser alignment tools project a straight, level or plumb laser line to set machines, align rollers, level benches and mark layout lines across rooms and panels. They are faster and more accurate than spirit levels and string lines for machine setup and installation.

Key Features

- Self-levelling pendulum bases
- Cross-line, dot and rotary projections
- Ranges up to 30 m with a detector
- Green or red visible lasers
- Tripod and mounting accessories

Typical Uses in the Workshop

- Align saw tables, rails and rollers
- Level benches, racks and machines
- Project layout lines on panels and walls
- Set up conveyor and guide systems

Safe Operation

1. Place the tool on a stable surface or tripod
2. Let the pendulum self-level
3. Project the line and check with a mark
4. Use the detector outdoors for visibility
5. Lock the pendulum when transporting

SAFETY NOTES

- Laser class 2/3R - never stare into the beam
- Do not aim lasers at eyes or vehicles
- Keep the beam away from reflective surfaces at eye level
- Switch off when not in use
- Store in its case

Maintenance & Consumables

- Clean the lens with a soft cloth
- Check the tripod and mounts
- Calibrate the level against a known surface
- Check the batteries
- Protect the tool from drops

Specification & Buying Notes

A self-levelling cross-line laser with tripod covers school alignment work. Green beams show better in daylight. Detector kits extend outdoor use. Match the accuracy class to the machine tolerances.