

Security Keycard Access Scanners for Machine Rooms

DT Workshop Equipment Reference — D&T / STEM resource for school workshops | Network & Infrastructure



Photo: RamaGaspar — CC BY-SA 4.0 — via Wikimedia Commons (Beep_(smart_card)_ticket_machines_in_the_Philippines_02.jpg)

Keycard access scanners control entry to machine rooms, tool stores and electronics labs, logging who enters when and restricting access to authorised staff and trained students. They protect expensive equipment and enforce the trained-user rule.

Key Features

- RFID and keycard readers
- Central access control units
- Door release and locking
- Entry audit logs
- User card management

Typical Uses in the Workshop

- Restrict access to machine rooms
- Control tool store entry
- Log instructor and student entries
- Tighten security for expensive equipment

Safe Operation

1. Issue cards to authorised users
2. Program the access rights per user
3. Tap the card at the reader
4. Audit the entry log regularly
5. Revoke cards when access ends

SAFETY NOTES

- Keep the door release accessible in emergencies
- Test the fail-safe opening
- Keep the exit route clear
- Back up the access log
- Change codes when cards are lost

Maintenance & Consumables

- Check the reader and lock
- Update the user database
- Test the batteries and backups
- Clean the reader surface
- Audit the logs monthly

Specification & Buying Notes

An access control kit with reader, lock, controller and software fits the workshop scale. Quality readers read fast; cheap ones reject in the cold. Include a mechanical key override.