

Cordless Circular Saws

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



Photo: SGT Terence Ewings — Public domain — via Wikimedia Commons (U.S. Marines with the Chemical Biological Incident Response Force (CBIRF) use a cordless rotary saw to cut through a sheet of metal during a search and extraction operation as part of exercise)

A cordless circular saw cuts timber, sheet materials and panels to length and width, with a carbide blade spinning at high speed guided by a base plate. Battery power makes it instantly usable away from sockets for cutting stock and breaking down sheet goods.

Key Features

- Blade sizes 165-190 mm typical
- Carbide-tipped blades
- Depth and bevel adjustments
- Laser or line indicators
- Battery platforms shared with other tools

Typical Uses in the Workshop

- Crosscut and rip timber on site
- Break down plywood and sheet material
- Cut panels to layout lines
- Trim framing and battens

Safe Operation

1. Set the depth just deeper than the work
2. Use a straightedge or track for accuracy
3. Start the blade before entering the cut
4. Feed at a steady rate with the guard working
5. Let the blade stop before lifting

SAFETY NOTES

- Keep fingers clear of the blade path
- Never cut with the blade guard held open
- Use the correct blade for each material
- Kickback is real - hold firmly and stand to the side
- Wear eye and hearing protection

Maintenance & Consumables

- Keep the blade sharp and clean
- Check the guard springs back
- Lubricate the base plate
- Check the battery and contactors
- Store in the case with the blade guard

Specification & Buying Notes

A 165 mm brushless cordless saw on the shared platform covers school site work. A guide rail or straightedge accessory improves accuracy enormously. Keep spare blades in stock.