

HEALTH AND SAFETY REGULATIONS



UNIVERSITAT POLITÈCNICA DE CATALUNYA
BARCELONATECH
Servei de Prevenció de Riscos Laborals

CUT-OFF SAW

CODE

SHR 224

Date:

June 2021

Version:

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DESCRIPTION OF THE CUT-OFF SAW

The cut-off saw is a tool for cutting materials with a rotating disc blade. It can cut metals and woods with a straight or oblique cut along their length or breadth. To make the cuts, the user selects the cutting angle and uses the arm to move the disc blade towards the material.

The main risks are the following:

- Impacts and contacts with moving parts of the machine.
- Projection of fragments or particles.
- Impacts from objects or tools.
- Falling of objects due to handling.
- Overexertion.
- Electrical contact.
- Risk of damage to health resulting from exposure to physical agents: noise.



GENERAL RECOMMENDATIONS

- The part to be cut must always be held with clamps or another accessory intended to guarantee that it is firmly secured.
- The cut-off saw must be fixed on a stable and firm work surface.
- The saw blade must be protected with a retractable guard that moves with the cutting head.
- In the stop position the blade must be fully protected, and during operation only the part necessary for cutting must be exposed.
- The button controlling the blade must be sensitive and only operate the blade while it is being pressed.
- All cleaning, maintenance, checking and other operations must be done with the machine at rest.
- To work with the cut-off saw, you must wear well-fitting clothes without tears or hanging parts. The sleeves should be fastened at the wrists or rolled up. As a precautionary measure, do not wear rings, watches, bracelets, etc. at work.



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PERSONAL PROTECTIVE EQUIPMENT (PPE)

EYE AND FACE PROTECTORS

Use goggles/a face shield for protection against impacts, especially when working hard, fragile or brittle materials.

If a foreign body does get into an eye:

- Do not rub it because you could cause an injury.
- Clean the eye with plenty of clean water and cover it with gauze fixed with adhesive tape.
- Go to the nearest healthcare centre.



PROTECTION OF FEET AND LEGS

Wear safety footwear with deep-tread rubber soles to avoid injuries caused by falling parts, slipping and cuts/perforation caused by filings.



PROTECTION OF THE RESPIRATORY TRACT

If the cutting operation generates a lot of particles and the machine does not have an effective local suction system, it is recommended to use a protective mask (type FFP2) against solid particles.

EAR PROTECTORS

Use hearing protectors according to the noise levels generated and the exposure time. Consult the manufacturer's instructions.

PROTECTION OF HANDS AND ARMS

Protective gloves must be used to handle the pieces to be cut and the disc blades.



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BEFORE CUTTING

Before switching on the cut-off saw, make the following checks:

- Check that all the guards and protection devices are correctly placed and function correctly.
- Check the state of the disc blades for the absence of oxidation, cracks and broken teeth.
- Check that the control system allows safe total shut-off.
- Use only a suitable blade for the material to be cut.
- Avoid the presence of electrical cables in circulation areas.
- Choose the right accessory for each application.
- Keep the work area free of objects and avoid the presence of other persons near to the saw when it is in operation.

DURING THE CUTTING OPERATIONS

During the cutting operations, observe the following rules:

- Check that the disc blades are in good condition and are placed correctly to avoid vibration and unforeseen movement leading to projection of materials.
- Avoid overheating the disc blades by making them rotate unnecessarily.
- Do not cut zones that are difficult to access or with the disc blade leaning sideways, because the blade may break and cause injury through the projection of particles.
- Do not touch the disc after the cutting operation.
- Replace worn or cracked discs immediately.
- Disconnect the saw from the mains when it is not in use.
- Disconnect the saw from the mains when you change accessories.

MAINTENANCE, ORDER AND CLEANING

1. The cut-off saw must be kept clean, in a good state of conservation and properly maintained.
2. Care must also be taken with the order, cleaning and maintenance of tools, implements and accessories.
3. Disconnect the saw from the mains before cleaning and maintenance operations.
4. The work area and the area around the cut-off saw must be clean and free of obstacles.
5. Dropped and projected objects can cause dangerous trips and slips, so they must be picked up before this happens.
Floor filings must be collected with a broom and dustpan and placed in a container.
6. Electrical breakdowns of the cut-off saw should only be repaired by specialised personnel. If you detect anomalies in the tool, disconnect it and mark it with a "BROKEN TOOL" sign.
7. During repairs, place a "TOOL UNDER REPAIR" sign on the main switch. If possible, place a padlock on the main switch.