

Grinding

1. Purpose

The purpose of these safety instructions is to ensure that, having read the instructions, the employee is aware of the risks associated with the described work activities and can perform them safely.

2. General

This grinding disc cuts through materials like a hot knife through butter, and this device cannot be treated with enough respect. The thrown-off bits of metal and sharp edges of the workpiece can also cause a lot of trouble. Loose clothing can become caught in the fast moving parts with disastrous consequences.

An angle grinder often has the following parts:

- An adjustable guard that provides optimum protection against contact with the rapidly rotating grinding disc and removed material is necessary, regardless of the position in which you hold the device.
- A locking button to lock the device in the on position is definitely not a luxury. This prevents you from having to continuously keep the on button depressed. This is permitted for grinding discs smaller than 127 mm (angle grinder) or 55 mm (straight grinder)
- Soft start, to prevent the device from jerking when it is started.
- A shaft lock, sometimes automatic, to enable you to easily change the disc.
- A main handle that turns on its axis

3. Risks

- Ejected sparks
- Fire hazard
- Being grabbed by rotating parts
- Jamming of the disc in the workpiece; instinctual reaction is to pull grinder towards face/body
- Disc that breaks while in use
- Harmful noise

4. Measures

- Make sure the handle is properly attached
- Check the guard
- Grinding only by certified personnel
- Wear the required PPE
- Note the shelf life of the grinding disc.
- Maintain adequate distance from the work in connection with snapping of the grinding disc.

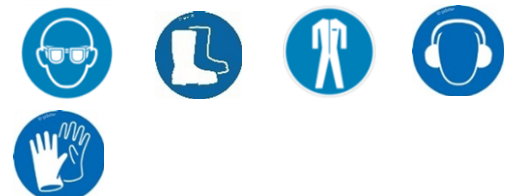
5. Picture





6. Pictograms



7. Required PPE



Grinding

	<ul style="list-style-type: none"> • Use only approved tools • Provide adequate lighting of the work area • Timely replacement of the wheel • Use a wheel that is suitable for the work you are undertaking!
	<ul style="list-style-type: none"> • Do not use tools with broken/damaged leads • Never remove the protection on the machine • Do not wear loose clothing

8. Notes:

Types of wheels:

Cutting wheels are intended for grinding through stone or metal. They are not suitable for deburring a steel pipe, for example. With improper use the wheel is likely to break.

Grinding wheels are used to remove sharp and irregular protrusions, mainly in metal. Depending on the type, a grinding disc is suitable for:

- Cutting and deburring up to 3-4 mm
- Grinding away beads of weld / deburring up to 4-4.5 mm
- All kinds of deburring in excess of 4.5 mm

In order to be able to see whether a grinding disc is suitable for the machine and the work, the following information must be on the disc (or label):

- The manufacturer's name
- Expiry date (year and quarter)
- Maximum permissible speed
- Type of binder (grinding discs made of abrasive and binder)
- Particle size of the grinding disc
- The structure
- The hardness
- The dimensions of the grinding disc
- Indication of the material for which the disc is intended

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