

SAFETY RECOMMENDATIONS FOR THE CORRECT USE OF GRINDING TOOLS

GENERAL SAFETY MEASURES

The incorrect use of grinding tools is very dangerous.

- Always observe the information on the grinding tool and the grinding machine.
- Make sure that the grinding wheel is suitable for the application in question. Check the grinding wheel for possible damage before each start-up.
- Observe the instructions for proper handling and storage of the grinding tool.

Be aware of the possible dangers while using grinding tools and observe the recommended safety measures:

- Physical contact with the grinding tool at working speed
- Injuries from breaking the grinding tool during use
- Abrasive particles, sparks, gases and dust generated by the grinding process
- Noise

Only use grinding tools that meet the highest safety standards. These products have the respective number of the EN standard:

- EN12413 for abrasives made from bonded abrasives
- EN13236 for grinding tools with diamonds

Never use a grinding machine whose working condition is incorrect or which contains defective components.

Employers should carry out a risk assessment of all grinding processes in order to be able to take the appropriate safety precautions. You should ensure that your employees are adequately trained to perform their duties.

SAFETY PRECAUTIONS

Body contact with the abrasive product

- Never remove protective devices attached to machines and ensure that they are in good condition and fitted before you switch on the machine.
- If the machine or workpieces are hand-held, always use gloves and suitable clothing. A minimum degree of protection according to EN388 category 2 is recommended for gloves.
- After switching off the machine, you should make sure that it stops completely before leaving it unattended.

Injury due to broken tool

- Extreme care must be taken when handling grinding tools as they can easily be damaged. Before using them, you should check all products for damage.
- Grinding tools should be stored in such a way that harmful influences from moisture, frost and large temperature fluctuations as well as mechanical damage are avoided.
- Never use grinding tools beyond the stated expiry date. Grinding disks according to DIN EN12413 are marked with an expiry date. It is expressed by month and year (e.g. 04/2017) and is located on the reinforcement ring around the hole.
- Observe warning or safety notices on grinding tools or their packaging



Not permitted for wet grinding



Not permitted for side grinding



Do not use if damaged



Observe safety instructions



Wear safety glasses



Wear ear protection



Wear gloves



Wear a respirator

Do not press when cutting, ONLY work with the weight of the machine!

- When clamping, observe the information on the label or the grinding tool, e.g. for direction of rotation or type of clamping.
- Never exceed the maximum working speed.
- Make sure that the suitable clamping flanges are used and that they are in good mechanical condition and free of foreign objects such as B. grinding abrasion.
- Do not over tighten the jig.
- After each clamping, carry out a test run at working speed for at least 30 seconds with the protective hood correctly attached. Hold the machine so that the fragments cannot hit you if they break.
- Never remove protective covers from machines and ensure that they are in good condition and properly installed.
- The workpiece must be clamped securely and properly and the workpiece support must be correctly and firmly set.
- Only start the machine if there is no contact between the workpiece and the grinding tool.

Abrasive particles, sparks, dust and vapors

- Inhalation of grinding dust can lead to lung damage.
- All dry grinding processes should be equipped with suitable extraction systems.
- Do not use grinding tools near combustible materials.
- The use of respirators according to EN149 is recommended for dry grinding, even if there are suction systems.
- Protective hoods or covers should be set so that they conduct sparks and abrasive particles away from the body.
- Additional measures are necessary to protect nearby people.
- Eye protection is generally recommended for all grinding processes. Safety glasses or face protection are recommended for freehand grinding.
- Eye protection with a minimum protection factor of EN166 grade B is recommended.