Working with pneumatic equipment

1. Purpose

To provide an overall picture of the risks that are present and measures that must be taken when working with pneumatic equipment.

2. General

When we discuss working with pneumatic equipment a distinction is made between working with pneumatic tools (e.g. impact wrench or grinder) and the assembly/function of pneumatic components.
Tool-specific risks/measures also depend on the type of pneumatic tool. For more information, see the specific operating instructions for the individual types.
In the case of assembly, there may sometimes be residual energy in the pneumatic components.

3. Risks

General

- Bursting of hoses when subjected to pressure or residual energy
- Ejection of couplings/hoses when subjected to pressure or residual energy
- Tripping hazard
- Pinching hazard.

Tool-specific risks/measures are included in the corresponding work instructions

- Grinding, see Work Instruction Grinding: A.W.01.06_Grinding
- Drilling/impact wrench, see Work Instruction Drilling: A.W.01.03_Drilling

4. Measures

- Check the hoses before use; never use damaged hoses
- If damage or defects of the hoses are found, report the problem immediately.
- Protect the hoses against harmful external influences
- Never stretch hoses across walkways and use the shortest possible route.
- Pneumatic components often feature a ‘soft start’
- Use of pneumatic tools only by certified personnel
- Do not use pneumatic tools to clean clothes
- Check whether the tool is certified before use

5. Picture

6. Pictograms

7. Required PPE

- Check the hoses for damage
- Check couplings
- Be aware that residual energy may be present
- Keep out of danger zones and make sure others do too

- Never use damaged hoses
- Beware of whipping hoses/connectors
- Do not use pneumatic tools to clean clothes