

# Working with a Bench Grinder

## 1. Purpose

The purpose of this safety instruction is that, after reading the instructions, the employee is aware of the risks associated with the defined work and that he can perform it safely

## 2. General

An electric grinder is a device that uses a rotary grinding stone to grind of any burr from a product..

The machine is powered by a high speed electric motor. This is provided with a continuous shaft with the grinding stones attached at the ends. One dish consists of coarser grains than the other. The grains are pressed under high pressure with adhesive as a binder.

Because the grinding stone is composed of pressed grains, there is always the possibility of a fracture, which causes the stone to splash apart. In order to prevent possible serious injuries, the stones are always protected. These are made of medium-thickness plate steel; They should never be removed.

Also, the shelf of the stone on which the material to be sanded must be properly adjusted. This should be placed as close to the stone as possible.

## 3. Risks

- Disk breaking while rotating
- Being grabbed by rotation parts
- Splinters or sparks in eye
- Touching the hot disk while working

## 4. Measures

- Check the disk for wear or defects
- Protection of moving parts and risk areas on the machine
- Protection against sparks
- Wear of required PPE

## 5. Pictures



## 6. Pictograms



## 7. Required PPE's



Disconnect the plug from the wall outlet before performing any maintenance or repair  
Make sure the machine is OFF when plugged into the wall socket  
Use disks for 3300 RPM or more  
Make sure the machine is running in full power before using it  
Stay alert during work



Never leave a rotating machine unattended  
Do not remove any protection from the machine  
Do not use the machine in wet, humid areas or in explosive atmospheres  
Do not wear loose clothing, or loose long hair

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