

Area of operation: **Machine work station**

1. Application area

- Disc brushes used for the treatment of surfaces
- Disc brushes used in mechanical and automatically machines

2. Risks for people and environment



- Development of noise and dust
- Kickback while sliding or running-up on fixed objects
- Cut injuries
- Blocking of the brush, brake of wires, overtravelling brushes
- Move-in of clothes
- Electrical power supply line (cable)
- Flying sparks, fire hazard
- Flying parts like wires, ground, stones, branches, etc.

3. Safety measures and behavioral rules



- Use only brushes that are applicable for the machine
- The maximal RPM is not to exceed
- The maximal RPM of disc brushes is $v_{max} = 20 \text{ m/s}$. Hence the maximal RPM depends on the body diameter of the brush

Diameter body	n max. in 1/min
≤ 100 mm	$n_{max} = 3.600 \text{ 1/min}$
> 100 mm ≤ 125 mm	$n_{max} = 3.000 \text{ 1/min}$
> 125 mm ≤ 150 mm	$n_{max} = 2.500 \text{ 1/min}$
> 150 mm ≤ 200 mm	$n_{max} = 2.000 \text{ 1/min}$
> 200 mm ≤ 250 mm	$n_{max} = 1.500 \text{ 1/min}$
> 250 mm ≤ 300 mm	$n_{max} = 1.300 \text{ 1/min}$

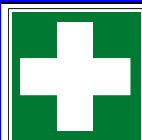
- Pressure of the brush: max. 2 mm depth of immersion
- Before changing the brush stop the machine, turn off the main switch, wait till brushes stand still
- Retain the working piece against blocking and seizing
- Wear tight clothes
- Wear eye protection, ear protection and face protection
- Advice surrounding people against possible danger
- Remove or cover flammable parts in the surrounding
- Do not remove the protection casings of the machines
- Do not use broken brushes, e.g. brushes with rust or other indications of chemical or mechanical modifications
- Do not use brushes with a high imbalance



4. Storage

- Storage brushes that they are protected against the following exposures
 - High humidity, heat, water, acids or other steam which may cause damages
 - Deformation of the brush components

5. What to do in case of accidents



- Consult a first-aider
- **Emergency call: 112 (Europe)**
- Report the accident

6. Disposal

- Dispose the used or damaged brushes in the garbage or scrap them.

Date:

Signature: