

Work equipment / tools

CREW ACCIDENT

When performing cutting work with the angle grinder, the cutting disk shattered. Parts of the disk hit and injured the crew member's face and leg.



FACTS

Fast rotating power driven tools / grinding and cutting machines can lead to accidents which could be contributed by

- use of non-approved discs
- use of expired / overlaid discs (synthetic resin binder)
- use of damaged discs
- selection of unsuitable disc, e.g. permissible rotation speed of the disc is less than the speed of the machine used, incorrect size of the disc (diameter), thickness not suitable for the material / component to be processed
- not used as intended, e.g. grinding with cutting discs, cutting steel tube with thin discs for sheet metal cutting
- tilting the machine
- use of unsafe / defective machines
- missing operating instructions / makers information
- missing / incomplete familiarization



Shattered cutting disc



DGUV 209-002 (BGI 543) – expiry date

d=	115	125	180	230
m/s	Min ⁻¹	Min ⁻¹	Min ⁻¹	Min ⁻¹
50	8304	7639	5305	4152
63	10463	9626	6685	5231
80	13286	12223	8488	6643
100	16607	15279	10610	8304

Speed conversion table (rounded)

CREW:

It is your health and your safety - therefore for equipment (tools):

- ☑ read the operating instruction prior first use
- ☑ check for obvious defects before use
- ☑ grinding / cutting discs: check expiry date & condition (resin based: max. 3 years after date of manufacturing)
- ☑ pay attention to the correct speed – disc fits engine speed (m/s, min⁻¹, color code)
- ☑ watch for CE conformity mark – machine: yes (recognizable), grinding and cutting discs: no, CE conformity mark should not be displayed.
- ☑ use disc and machine as intended
- ☑ wear suitable PPE, especially eye protection
- ☑ store properly and protected from sun radiation
- ☑ errors, defects, unsafe condition: report

OWNER:

It is your responsibility - therefore ensure appropriate

- ☑ risk assessment
 - ☑ purchasing procedure
 - Only procure and provide discs that comply with European Safety Standards (EN Standards). Pay Attention to the maker's specifications when selecting. Recommended for grinding and separating discs: Seal of approval OSA.
 - ☑ operating instruction and protection measures
 - ☑ appropriate familiarization procedure
 - ☑ PMS maintenance & safe conditions
- and**
- ☑ promote safety awareness on board
 - expiry date 3 years after date of manufacturing
 - speed rotation indication (m/s, min⁻¹, color code)
 - disc fits engine speed / speed requirements

**THINK AND ACT
SAFE!**