



Angle Grinder

Written By: Tobias Isakeit



INTRODUCTION



Dismantling and Recycling Centre (DRZ)

Katharina Lenz, Vienna / Austria

Health & Safety

Dismantling doesn't include any harmful steps. Nonetheless workers should wear personal protection equipment like gloves, goggles, apron and robust shoes.

Note: This is a general guide for most angle grinders. As the construction can differ, the dismantling steps mentioned below can vary in their order. However, the described steps show what parts the removal should focus on.



TOOLS:

- [Several screwdrivers \(T1\)](#) (1)
- [Flathead Screwdriver \(T2\)](#) (1)
- [Hammer \(T3\)](#) (1)
- [Side cutter \(T4\)](#) (1)
- [Pliers \(T5\)](#) (1)
- [Industrial scale \(T9\)](#) (1)
- [Industrial Scissors \(T6\)](#) (1)

Step 1 — Angle Grinder



- Unscrew and remove the protection cover.

Step 2




- Open and remove the securing nut.

Step 3



- Unscrew the gear box.

 If the screws are too tight, use one or a couple of hammer blows to loosen them.

Step 4



- Lift off and remove the gear.

Step 5



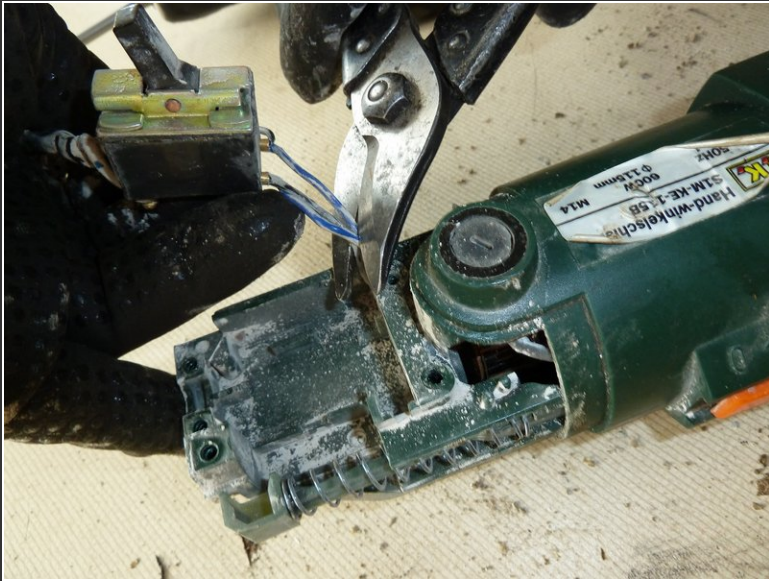
- Unscrew and open the case.

Step 6



- Unscrew and lift off the protective plate.

Step 7



- Cut the wires of the power switch and remove it.

Step 8



- Cut off the carbon brushes.

Step 9



- Unscrew the motor bracket and the protective sheet.
- Remove the protective sheet.

Step 10



- Cut off the wires of the capacitor and remove it.

Step 11



- Unscrew the motor bracket further.
- Unscrew and remove the metal bracket.

Step 12



- Unscrew the case and the gear box.

Step 13



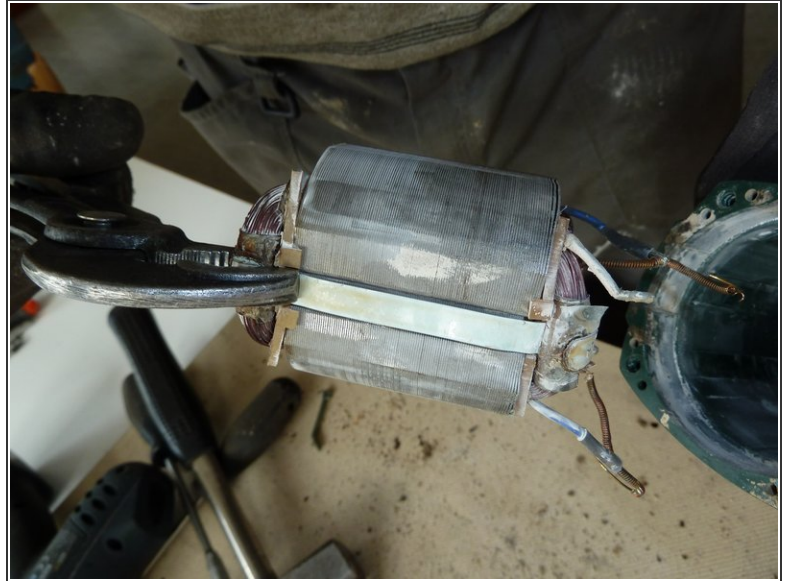
- Open the motor.
- Remove the rotor.

Step 14



- Remove the stator.

Step 15



- Remove the stator.

Step 16



- Cut the remaining wires.

Step 17



- Separate the remaining materials according to their type and go on with the appropriate data sheet (e.g. aluminium, ferrous metals, plastic, further PWBs, etc.).
- Make sure the plastic parts are completely free of metal pieces.