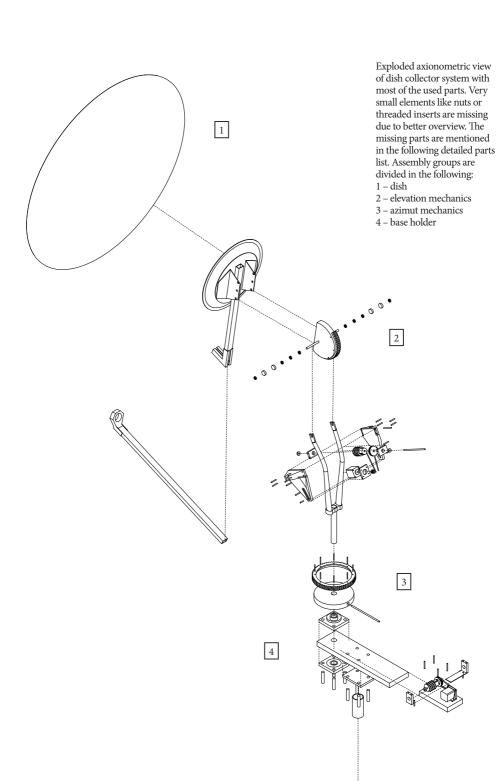
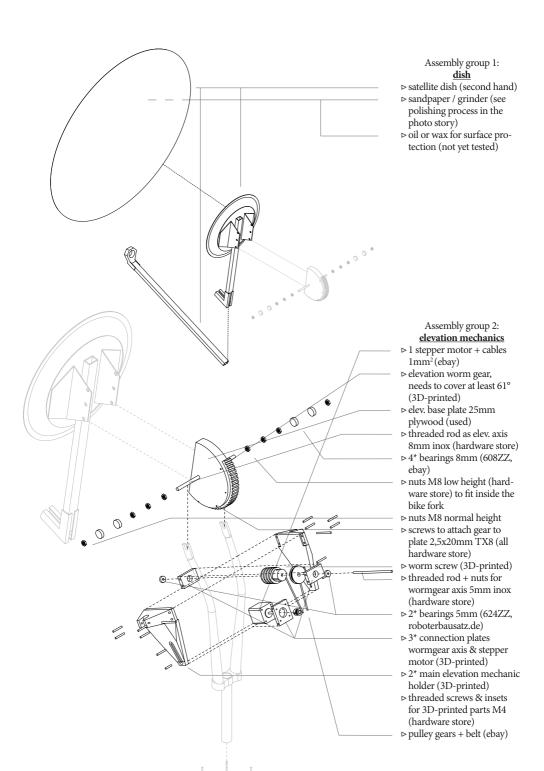


Side and back view of dish collector system with sun altitude chart. The movement of the dish needs to cover 0-61° vertical (elevation) and 50-310° horizontal (azimut). The slops show the yearly sun changings at the same daily time.





Assembly group 3: azimut mechanics

- bike fork as azimut axis
 25mm steel (dead bike from basement) 1 stepper motor + cables 1mm² (ebay)
- ⊳ main azimut worm gear, needs to cover at least 260° (3D-printed)
- ⊳ elev. base plate 25mm plywood (used)
- ⊳ screws to attach gear to plate 2,5x20mm TX8 (all hardware store)
- ⊳ worm screw (3D-printed)
- ► threaded rod + nuts for wormgear axis 5mm inox (hardware store)
- ≥ 2* bearings 5mm (624ZZ, roboterbausatz.de)
- ⊳ nuts M5 normal height (hardware store)
- > 3* connection plates wormgear axis & stepper motor (3D-printed)
- ⊳ ground plate azimut mechanics 25mm plywood (used)
- b threaded screws & insets for 3D-printed parts M4 (hardware store)
- ⊳ pulley gears + belt (ebay)
- ▶ 1 stepper motor + cables 1mm² (ebay)
- ⊳ 8mm threaded rod to fix axis mechanics to bike fork + nuts (hardware store)

Assembly group 4: <u>base holder</u>

- ⊳ main plate 25mm plywood (used), upgrade to steel
- ⊳ 50mm pipe intake with flange / connector to ground or wall
- ≥ 2* flange bearings for collector system (UCF205, ebay)
- ⊳4* M10 bolts + nuts for flange bearings

