

METU

FACULTY OF ARCHITECTURE

3 AXIS CNC MILLING MANUAL

Our faculty provides a 3 axes CNC milling machine for the studies of the students and academic staff. Before preparing the files for 3 Axes CNC milling process, all users should read the guide carefully and make reservation for the CNC milling machine at least two days in advance. During the peak times of the semester, the reservations should be made at least a week in advance.

Files setup

You can prepare your files for CNC milling process by using any CAD software as long as files are saved in 3DM, STL or DWG format.

In order to prepare your drawings for 3 axes CNC milling process, you will need to organize your drawings.

- The maximum size of a part which the 3 axes CNC milling machine produces is 600mmx600mm. The maximum thickness of the part depends on the tool length and materials
- All parts should be adjusted to the max part size of the machine and modeled as closed forms. Before saving your file please be aware that all the parts are positioned on **XY** plane.
- The parts should be scaled to the actual size of the model (1 unit=1 mm).
- The files should be correctly labeled in the following way.

Course code_Name_job number

Arch402_AyseKorkmaz_5

- Please bring the files for 3 axes milling process on a CD, the files on the flash memories will not be allowed.

Materials

The 3 axes CNC milling machine is not designed to process all types of materials. Please use only wood or polyurethane based materials.

Safety

Do not leave the CNC milling machine unattended while it is in operation.

In case of any problem during the milling process;

- Please stop the process by using PAUSE button on the interface of the CNC control software,
- Notify the lab staff.

In case of emergency;

- Turn of the CNC milling machine by using POWER button of the machine,
- Notify the lab staff.

Cleaning

All users are expected;

- To clean the working table of the CNC milling machine and its environment,
- To throw away their trash into the appropriate recycling bins.

If you have any questions please contact the model making workshop staff.