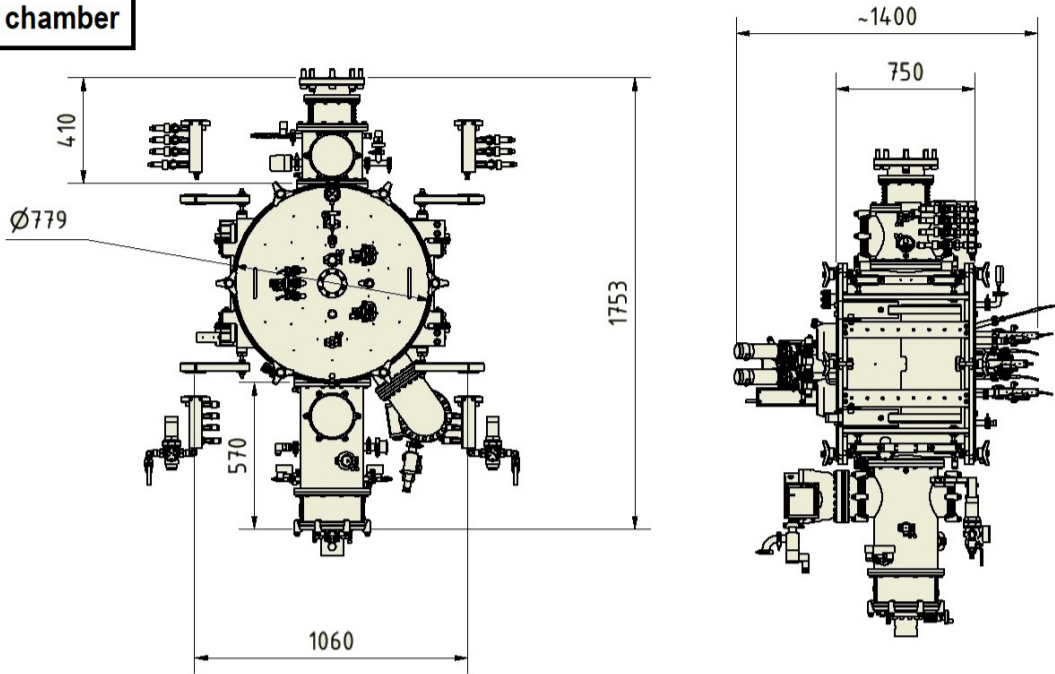


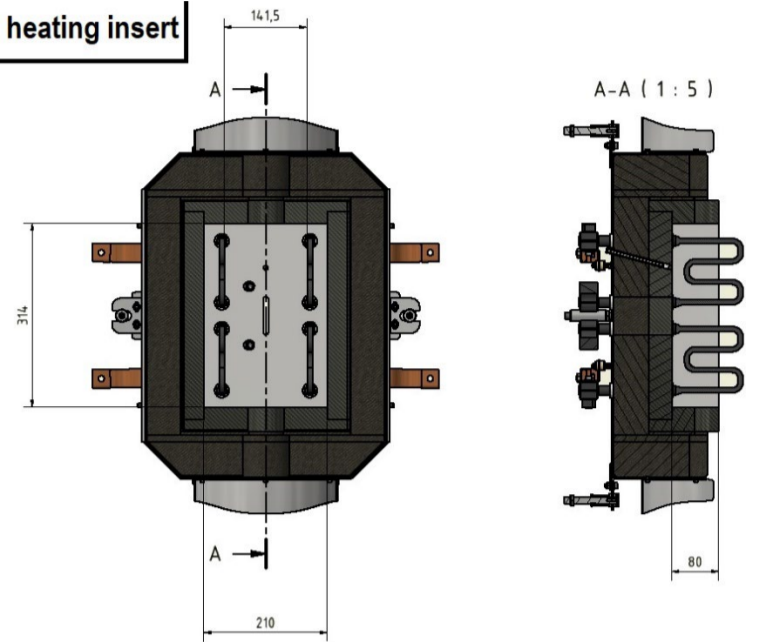
Technical details: MAYTEC 2300°C system

1) Dimensions

chamber

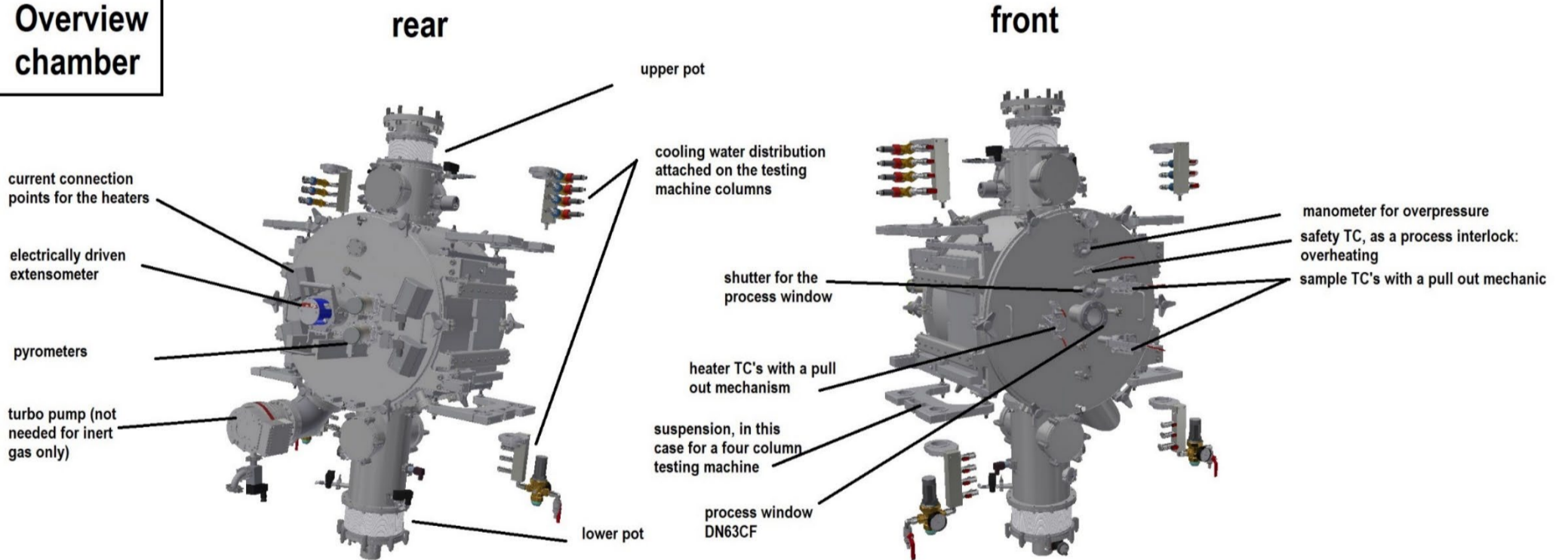


heating insert



The chamber is designed as a horizontal cylinder. The complete system is double-walled and water-cooled. In order to compensate for heat-related dimensional changes, one half of the heating insert is spring-mounted

Overview chamber



2) Explanation of some special features:

1) Pull out mechanism for the TC's/ Two mode system

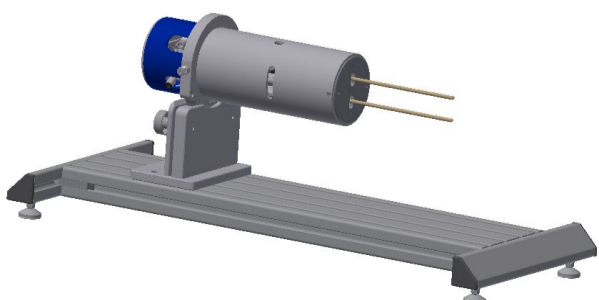
Contrary to the manufacturer's information, MAYTEC has found that the usual thermocouples Type G, C, D for the temperature range around 2000°C from approx. 1700°C react with the carbon sublimated by the heaters and age very quickly. That is why our system has 2 operating modes. Above 1700°C, the thermocouples are pulled out of the furnace with the mechanics and we regulate the temperature using the pyrometers.

Why not only pyrometers? The reason lies in the measurement accuracy and the possibility of calibrating the pyrometers via the TCs

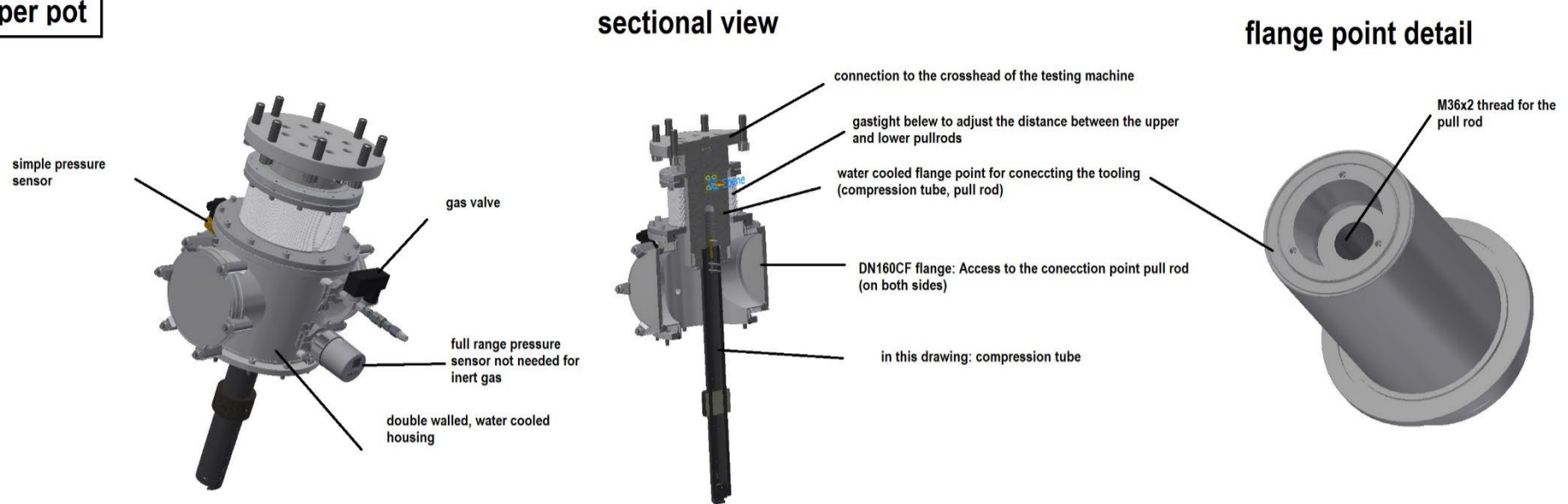
2) Electrically driven extensometer

Is placed on the rear to have as much free space on the front as possible. After mounting your sample in the machine, you can approach your sample easily by pushing a button on the steering rack.

For work on the extensometer, e.g. the I0 adjustment, or changing feeler rods, you can dismantle the device in just a few simple steps and conveniently fix it on the stand provided.

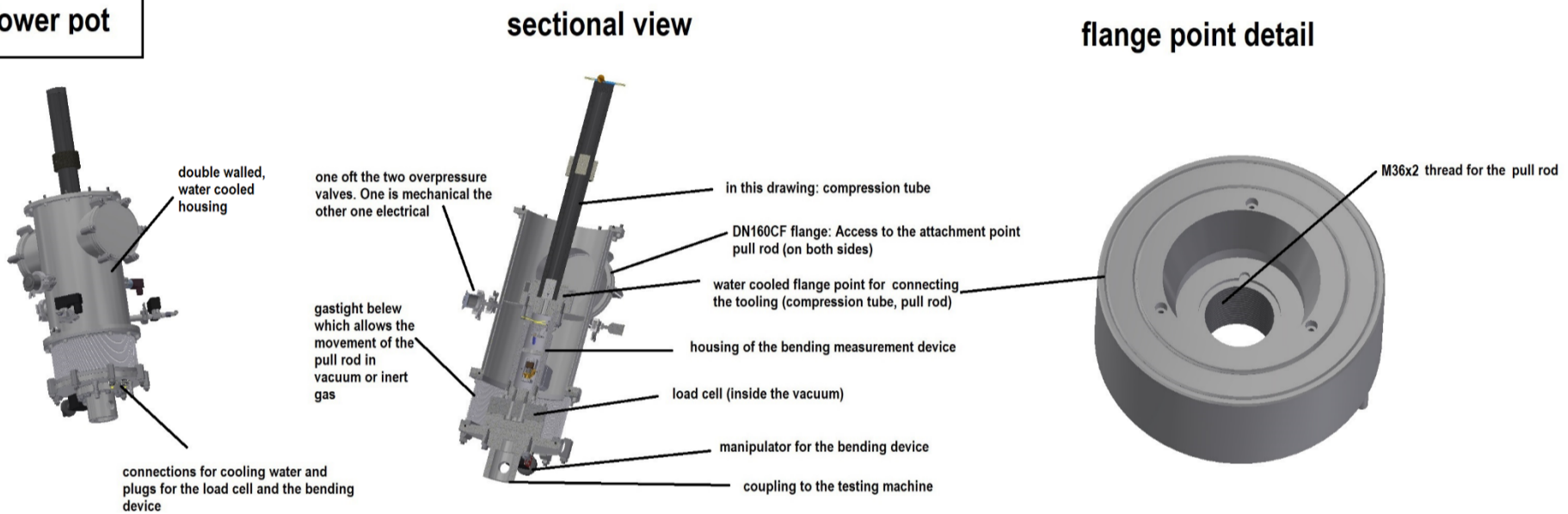


upper pot

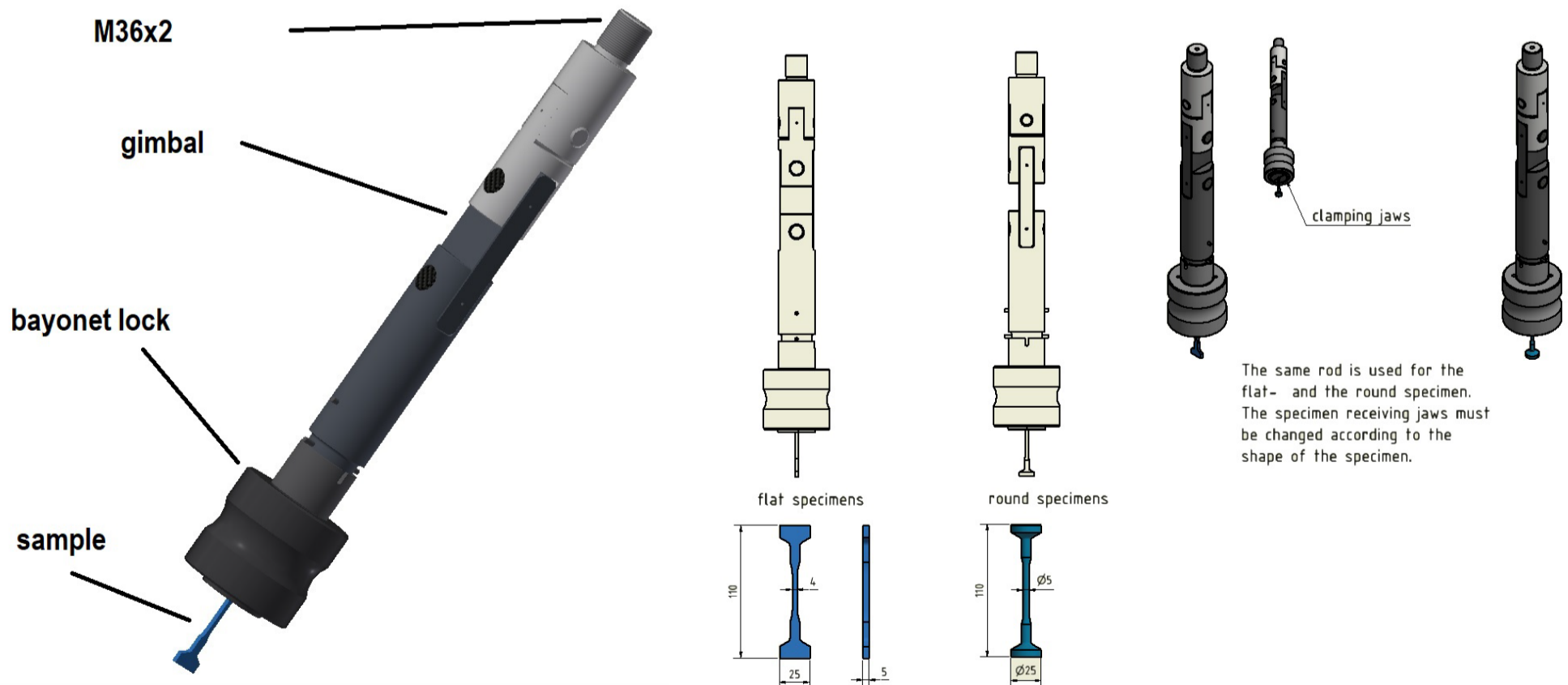


The DN160 CF flanges on both sides of the upper and lower pot allow the pull rods to be changed easily without having to "crawl into the machine".

lower pot



3) Pull rod



Please note that the design and layout of the samples must be provided by you. MAYTEC cannot guarantee successful tests. The geometries shown in the picture are suggestions for which we have carried out a simulation.