TGA

- Mass change measurement in inert, reducing and/or oxidating atmosphere up to 1500°C.
- Atmosphere can be dynamically varied during the test.
- Furnace tube inner diameter 28mm
- Available gases includes CO, CO₂, H₂, H₂O, N₂, O₂, CH₄, Ar & Air
- Sample size may varies between 1-200 g and with maximum diameter 24mm and 30mm
- Have used for reduction and oxidation (scale formation of steels) tests

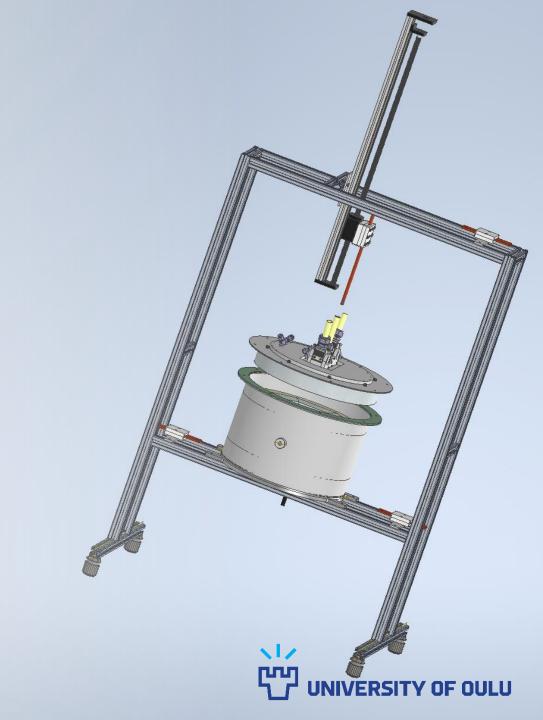




EAF simulator

- Melting of steel scrap with slag in controlled circumstances
- DC power supply with bottom electrode
- Logging of electrical parameters and crucible temperature
- Allows addition of material and injection of gases (Ar, N₂) during heating
- Coupling for optical measurement equipment, for example OES probe
- Crucible inner diameter 105 mm and heigh 95mm
- Will be used for simulation of EAF phenomena (scrap melting, slag foaming, behaviour of arc, etc.)





BFS

Blast furnace gas phase simulation with Entech furnace

- Mass change measurement in inert, reducing and/or oxidating atmosphere up to 1100°C.
- Atmosphere can be dynamically varied during test.
- Available gases CO, CO₂, H₂, H₂O, N₂, S and K.
- Sample size may varies between 50-1000g with maximum diameter 70mm and height 70mm
- Optional observation of dimensional changes via camera.
- Used for simulations of pellets, sinter and brigeuttes reducibility, swelling, cracking, etc





Microwave reactor

- Chamber 300 x 300 x 300 mm, power 3kW 1600°C
- Maximum sample size may varies between 100-1000 with maximum diameter 100mm and height 100mm
- Temperature is measured continuous and it may rise to 1600 °C
- Available gases icludes Ar, N₂, Air and in the future H₂
- Used for treatment of fine materials (dusts, sludges) reduction, agglometarion, selective removal of harmfull elements, etc.





