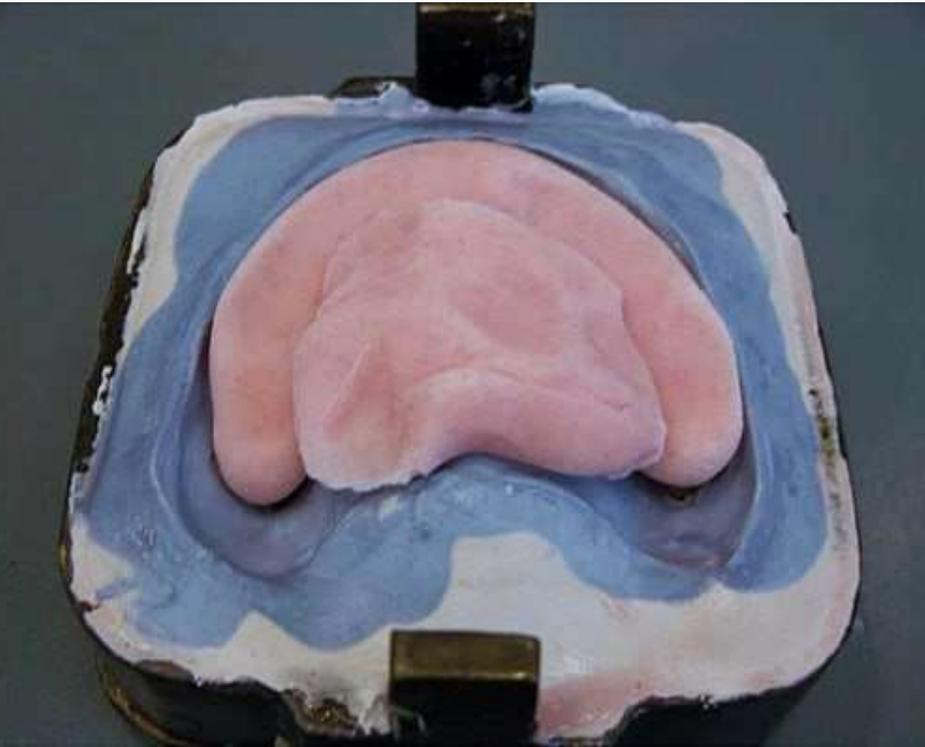




Dental packing ,Duplication and dental press



Packing : it is the procedure of application of acrylic resin into the mold and pressing the flask by using sufficient pressure to compensate for the contraction of the acrylic after polymerization to prevent shrinkage and porosity.



The instrument used of packing acrylic material :

1. **Flask press** : The flask is a metallic mold that supports the models and the try in denture during the flasking procedure.

It is composed of 3 parts:

1. The base in which the model & the try-in denture will be placed.
2. The mid-part in which the teeth will be located.
3. The cover



Flask press : is a laboratory equipment used in the process of packing acrylic in the flask by compressing the flask more than one time in order to remove the excess of acrylic from the flask until no more excess is present .



Packing the acrylic



First press



Removing the excess



Second press

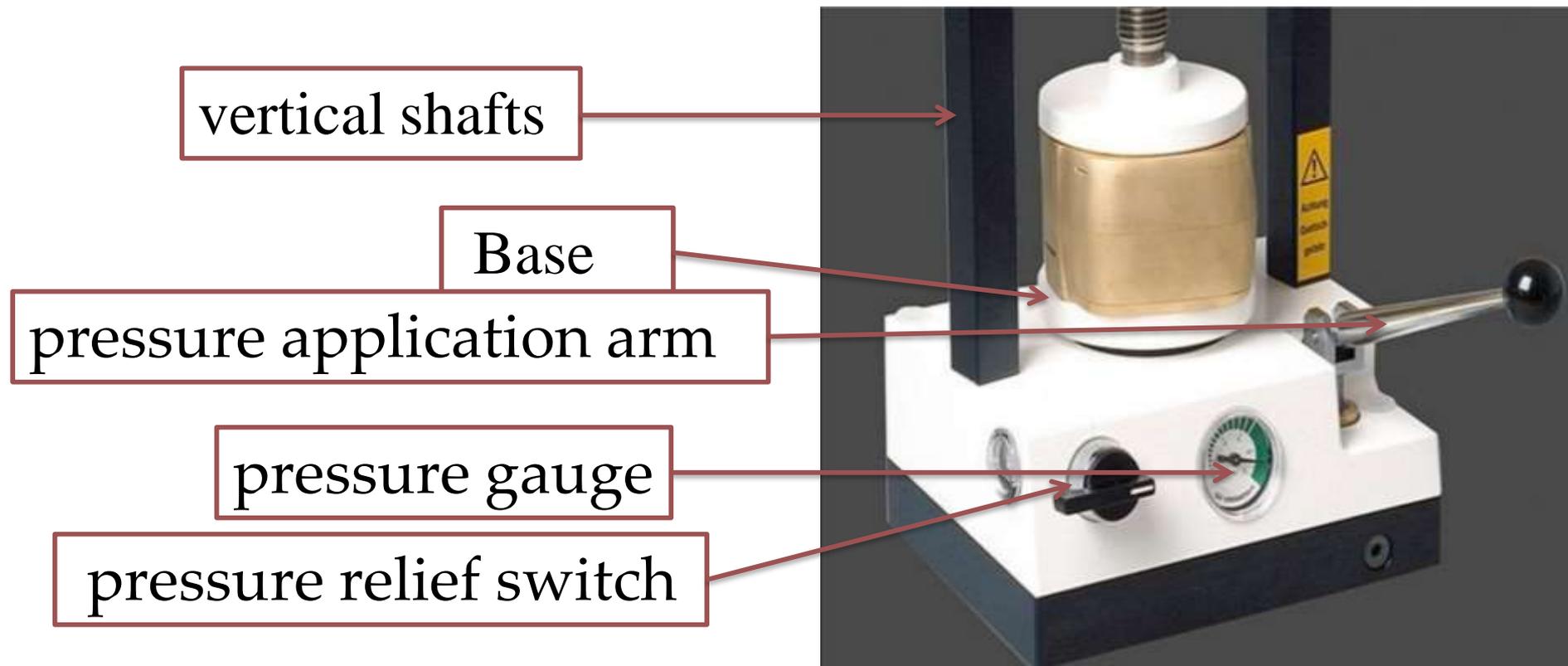


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Types of denture flask press :

1. Hydraulic press : it may press two or three flasks, it has two vertical shafts with long screw in the middle with flat plate at its end, pressure application arm ,pressure gauge and pressure relief switch .



2. mechanical press : It work in the same principle but the pressure is applied manually , It comes in of different sizes .One example of mechanical press is clamp .

Flask clamp : This instrument is used to maintain the pressure while polymerization take place in the polymerization unit , it come in different sizes and design .



The construction of chrome cobalt partial denture, the master cast must be duplicated to produce a cast that withstand high temperature, the material used for duplication is (Agar –agar) comes as gel at room temperature and remain as high as 65c and melt at approximately 85 c and need to be melted, heated, warmed and poured.



Agar- agar melter machine (Gelovet) : it is a device to soft the gelatin duplication (Agar –Agar material) and then poured in dubication flask . The mixing tank of the machine is made of stainless steel . The machine can heat, mix, cool down automatically. The machine has cooling fan to cool the gel after melting, also in the gel container there is mixing arm .







*Thank
You*