

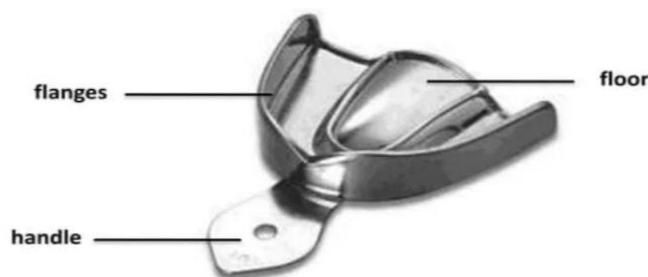
Impression tray :- It is a device used to carry , confine and control the impression material from the patient mouth.



Parts of Tray:

- 1- **Handle** :is an extension used to hold the tray inside the patient mouth should be have L shape to prevent interference with the lip
- 2- **Body** :it is formed from the floor and flange .

Parts of the tray



Required properties of Tray:

- 1- Must be rigid.
- 1- The tray should be dimensional stability
- 2- The should be smooth.
- 3- Should not distort tissue at vestibular.
- 4- Should support set impression material when removed from mouth.

Types of Impression trays : the impression tray can be can be of various types:

1- According to the material used to fabricate the trays:

- a. Metallic trays (stainless steel, Aluminum)



- b. Non-metallic trays (plastic trays, acrylic resin trays)



2-According to the method of fabrication of trays:

A .Stock trays: - comes in different size and are ready made by manufacture used to make primary impression .can be used for many patient after sterilization .



B. Custom trays or Special trays : it is constructed on the study cast which obtained by primary impression it used to obtain the final impression and it is specially made for one patient .



The difference between Stock trays and Custom tray

1-Stock trays are ready-made while custom tray are special fabricated for one patient .

2-Stock tray are re-useable after sterilization while Custom trays discarded after use .

- 3- The stock tray comes in specific sizes ,So stock trays must be selected for best fit while custom are fabricated on the particular patient's cast so that s always are a better fit than stock trays .

Materials used for construction of special tray:

1- Resin

a. Cold cure acrylic resin



b. Light cure acrylic resin



2-Thermoplastic Material

a. Shellac base plate



b. Impression compound



3. According to the teeth present /absent in mouth:

a. Edentulous trays : used for making complete denture

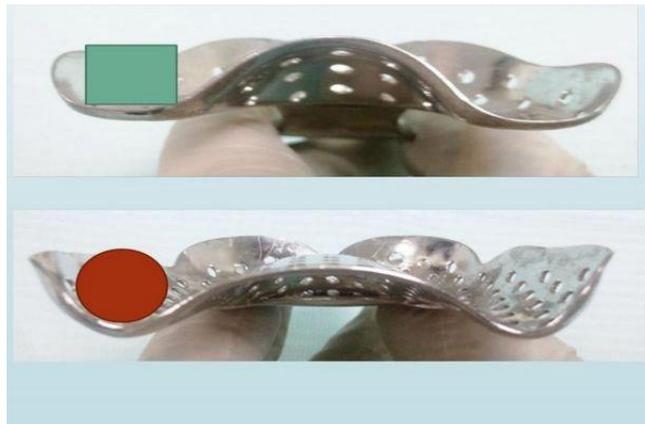


b. **Dentulous trays** : used for making partial denture



The difference between Dentulous and Edentulous trays :-

- 1- Dentulous trays square cross-section for patients with teeth and while edentulous trays – rounded cross-section for patients without teeth.
- 2- Edentulous tray have short flanges and oval narrow floor while dentulous have long flanges and flat wide floor



4. According to type of impression material used :

a. **Perforated trays** used with alginate impression material (the perforation are for retention of the material)



B- **Non perforated** (used with elastic impression material)

1- plain without rim lock



2-Rim lock (the rim lock design is for the retention of impression material)

