

Vacuum mixing machine , sandblast machine, ultra sonic cleaner and ceramic furnace

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Vacuum mixer device :

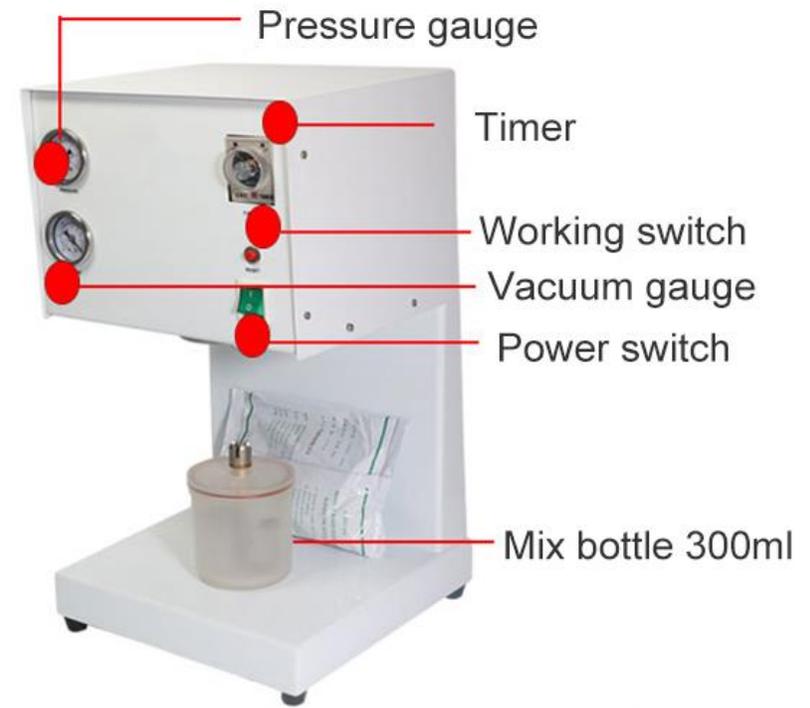
This device used in the laboratory of the crown, bridge, and chromium cobalt for mixing gypsum product materials (plaster, stone, die stone, and investment material....).

With this equipment, the powder and liquid (water or special liquid) are mixed under Vacuum . to eliminate bubbles to obtain smooth and strong cast (duplicating cast) .



Parts of vacuum mixer device

1. Pressure gauge
2. Timer
3. Working switch
4. Vacuum gauge
5. Power switch
6. Mix bottle
7. Base



Parts of mixing jar



100 ml



250 ml



500 ml

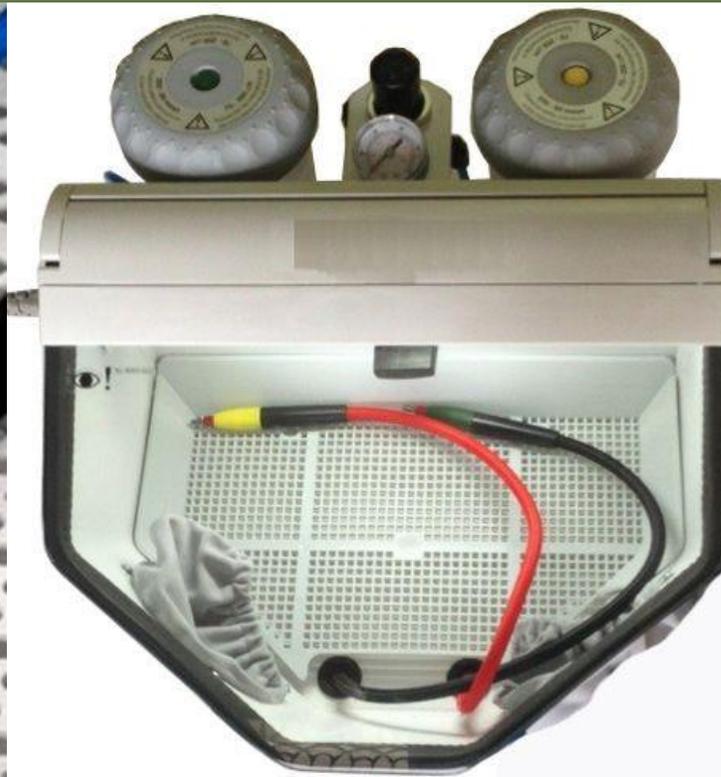


750 ml



1000 ml

Sand blast machine : This device uses to remove oxides & debris of investment from metal that use in partial denture (chrome -cobalt) & in crown and bridge. Use a sandblast which project by compressor through a fine nozzle (tube) to clean the alloy using abrasive (sandblast) .



UMG



Parts of sand blast machine

- 1.working window
- 2.pressure gauge
- 3.sand blast container
- 4.Interior light
- 5.sand blast nozzle
- 6.air source 6-8 bar air compressor
- 7.sand blast glove



sand blast is **used** to prepare the metal of crown and bridge to provide mechanical retention of porcelain- metal. The common material used for sand blasting in dentistry is aluminum oxide which come in different size



Aluminum oxide 180 grit fine



Aluminum 24 grit coarse



Aluminum 120 grit

Ultrasonic cleaning machine

It is a device use to clean the metal by ultrasonic pulls with a cleaning solution that uses either hot or cold.

Liquid "solution": are used in ultrasonic cleaners to dissolve the material to be removed from the dental restoration.

*There is special liquid for each type of alloy



Dental Ceramic Furnace :

Use in crown & bridge laboratory for the firing of ceramics on metal-ceramic restoration, all ceramics, ceramic - zirconium, ceramic - aluminum, and ceramic - titanium restoration.



Parts:

- 1) Furnace head housing.
- 2) Heating muffle.
- 3) Firing plate holder.
- 4) Frame plate.
- 5) Sealing surface
- 6) Touch screen
- 7) Firing trays: Its mesh tray with porcelain supports used for individual positioning of crown and bridge in the porcelain oven.



7) Firing trays: Its mesh tray with porcelain supports used for individual positioning of crown and bridge in the porcelain oven



*Thank
You*

