

## *Toothpaste Mixer Machine*



The vacuum emulsification machine is mainly composed of water phase pot, oil phase pot, powder pot and main emulsifying pot, vacuum system, lifting system (optional), electrical control system (PLC is optional), operating platform, etc.

### **Features**

- 1) The main tank body has three layers, the inner layer is made of stainless steel 316, the middle interlayer and the outer layer are made of 304, the positive pressure resistance is 0.2MPa, and the negative pressure resistance is -0.1MPa. The jacket is used for heating or cooling, and the positive pressure resistance is 0.3 MPa.
- 2) Scraper mixing is a large wall-attached scraper and a central scraper, which rotate in forward and reverse directions, and the speed is 0-65rpm. When stirring, the material can be scraped off the wall of the cylinder, and the temperature transfer is even and full centimeters and turns up and down. Effect.
- 3) The high-speed disperser mixer is placed at the top of the toothpaste making tank , the speed is 0-1500RPM, When the main shaft of the disperser is running at high speed, the upper and lower sides of the dispersing disk are in a rotating state, and at the same time, a turbulent zone will be formed at the edge of 2.5-5mm,The upper and lower serrations of the dispersing plate perform high-speed shearing, impacting, crushing, and dispersing on materials such as toothpaste raw materials, so as to achieve a state of rapid mixing, dissolution, dispersion, and refinement.
- 4) The high-speed homogenizer is placed at the bottom of the paste making pot, the speed is 0-3000 RPM, and the gap between the inner and outer rotors is 1- 2mm. After the powder is sucked from the bottom, it is sprayed to the top through the homogenizer, so as to achieve the paste Delicate effect.
- 5) The vacuum pump adopts a water-sealed two-stage vacuum pump, and a buffer tank is installed between it and the paste making pot to isolate the materials that are accidentally brought out.
- 6) The hydraulic lifting mechanism is a double-cylinder hydraulic differential, which is convenient for overhauling the internal parts of the paste making pot and inspecting the paste in the pot.
- 7) Circulating water is used for jacket cooling, the water pressure is controlled below 0.3Mpa, and the temperature is set by the control system.
- 8) The outlet is located at the bottom of the toothpaste making tank.

## Technical Parameters

<b>Working capacity (L)</b>	5l	700	1300	2400
<b>Anchor stirrer power (kw)</b>	1.5	5.5	5.5	5.5
<b>Speed (rpm)</b>	0~65	0~65	0~65	0~65
<b>Homogenizer power (kw)</b>	4	15	15	30
<b>Speed (rpm)</b>	0~3800	0~3800	0~3800	0~3800
<b>High speed impeller power (kw)</b>	2.2	15	22	37
<b>Speed (rpm)</b>	0~1500	0~1500	0~1500	0~1500
<b>Vacuum(mpa)</b>	-0.085	-0.085	-0.085	-0.085
<b>Lift height (mm)</b>	260	1500	4500	5500