

**Equipment details:****KDF-600L Technical parameters of three-shaft planetary mixer****Application:**

This machine is a kind of planetary motion mixing and stirring equipment designed for sealant. The impeller can realize the planetary motion of both revolution and rotation, and also meet different gluing processes, which greatly improves the efficiency of the equipment ; Suitable for mixing, reaction, dissolution and dispersing vacuum degassing of solid-liquid, liquid-liquid phase materials of products with viscosity of 100,000-1000000 CPS ;Such as adhesive, silicone sealant, polyurethane sealant, lithium battery, acrylic acid glue, automobile seal glue, package glue, ointment and paste material, grease and paint, cream cosmetics, ink and pigment and emulsion, cream food and additives production.

**Working principle and structure:**

The machine adopts the mixing structure of multi-layer insert paddle, and moves in revolution and rotation. Feeding barrel is fixed ; Impeller material make up and down or so full motion, wall scraper and the kettle body contact is flexible scraper, rotates continuously push kettle wall material down to the middle, participate in the mixture, its speed can be FM transmission, so that the material is strongly shearing and kneading, materials can be fully mixed, equipment adopts mechanical seal, vacuum release of bubbles. The machine is composed of mixing motor, cycloidal reducer, transmission box, seal (with inner planetary box),

feeding barrel, bottom plate, electrical control cabinet, hydraulic station, etc. The transmission box can move up and down under the push of oil cylinder in the vertical column. The hopper has wheels under it that can pull and move freely by hand ; Refer to the outline drawing of the whole machine.

**Main technical parameters:**

1. **Power supply:** three-phase ac 380V; 50 Hz.
2. **Motor power:** 22Kw ( **SIEMENS** ), BLD6# cycloid reducer (wuxi reducer factory ,with circulating oil pump).

3. **Design volume:** 600L. 4.

**Principal material:** SUS304.

5. **Number of stirring shafts:** 3 (2 F4 scraping) ;
6. **Number of wall scraper:** 1 (F4), designed with large spacing bearing, independent fulcrum and adjustable wall Angle.
7. **Mixing form:** multi-layer inserted blade (spacing 8 ~ 12mm).
8. **Stirring shaft rotation speed (rotation) :**7~63/67r pm.
9. **Speed of planetary frame and wall scraper (revolution) :**4~35rpm.
10. **Material temperature measurement method:** with the scraper rotating temperature measurement.

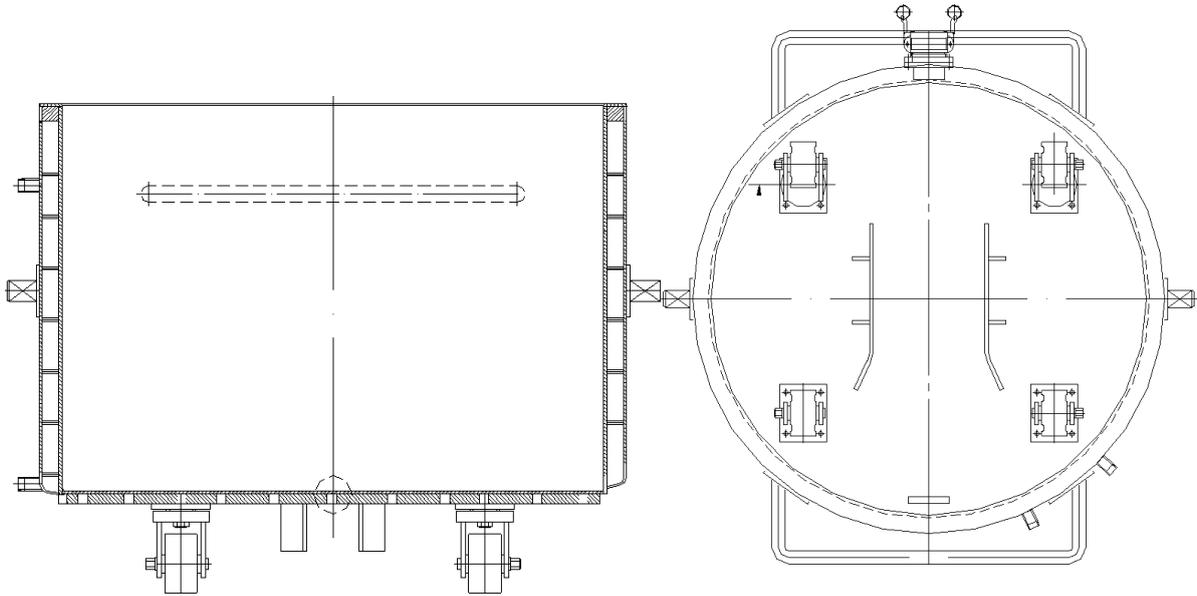
11. **Stirring speed regulation mode:** variable frequency speed regulation  frequency converter).

12. **Lift way of kettle cover:** hydraulic double column gantry type (large), lifting stroke: 880mm.

13. **Vacuum degree:** -0.098mpa.

14. **Barrel specification :** net size 900 x 900, VAT/bottom flange, inside the barrel wall and large vertical lathe machining fine processing, after the barrel material: SUS304, barrel with circular stainless steel jacket, built-in carbon steel seamless guiding device, ZG3 inch of quick before discharging mouth (with nylon plug), left a G1 inch after jacketed cooling water in and out of the interface, material: SUS304. Four 6-inch south Korean horsepower polyurethane loaders at the bottom, with the bottom middle barrel pushed into position.

15. **Barrel positioning :** (1) .Push positioning (left and right limit, clearance ~ 2mm) is set between the middle of the bottom of the barrel and the bottom plate. (2) .The rear part is positioned with a semicircular backer (the rear limit), and the two sides are tightened with movable screw locking buckle. (3) .The upper cover is provided with the whole ring clip position and the inner diameter positioning of the barrel (center positioning, precision of 1mm, patent).



16. **Description of the closure opening** : DN100/150 observation port 2 groups (DN100 with low voltage lamp), g1.5-inch outer wire vacuum port; G1 inch wire feed inlet; G1 "outside the wire put anything (with chain safeguard)  $\Phi$  100 vacuum gauge, G1" outside the wire spare mouth 2 only.
17. **Description of electrical control cabinet** : Control stirrer motor, frequency converter, hydraulic station motor, electromagnetic valve, low pressure observation lamp; Rise and fall for stroke control, cabinet with air cooling device, ammeter, voltmeter, meter, alarm, emergency stop button., main Electric parts .
18. **Safety interlock instructions** : a. After the seal is lowered into place, stirring can be started (buzzer prompt).b. The seal shall not rise under agitation.c.After rising, stirring does not work. d. The lifting and lowering of the cover is controlled by the adjustable stroke.
19. **Other instructions** : Two barrels per mixer, stainless steel SUS304 (no vacuum pump included) are in contact with the material.
20. **Description of accessories** : Each mixer is equipped with 1 set of F4 scraper, 4 spare casters and 2 extra d-shaped silicon rubber rings.
21. **External dimension of the equipment**: 2150 $\times$ 1150 $\times$ 3150 (static), **electric cabinet size**: 1200 $\times$ 750 $\times$ 420, **hydraulic station**: 600 $\times$ 450 $\times$ 880.
22. **Weight of equipment**: 4200kg.

