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Екатеринбург (343)384-55-89

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Чита (3022)38-34-83  
Якутск (4112)23-90-97  
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

<https://yushun.nt-rt.ru> || [ynv@nt-rt.ru](mailto:ynv@nt-rt.ru)

## Double Planetary Mixer 300-3000



### Main Features:

- 1.High line speed: The line speed can reach to 25m/s, shorten the dispersing time ; The particle size of battery slurry is small and high uniformity, solve the problem of polymerization.
- 2.It adopts SKF Sweden import angular contact ball bearing, The vertical and horizontal loading is bigger than the deep groove ball bearing, The carry capacity is much higher, and bear higher rotating speed, large increase the mixing speed and using life( The using life is more than 3 years under 21m/s and continuous 24hr working ).
- 3.0 - 0 assembling: precision assemble, The process tolerance of core parts is less than 30um (mixing shafts, dispersing shafts, and each hole), Thus ensure the concentricity and flatness, archive the 0-0 assembling of core parts. The running is more stable , the noisy outside 1 m rang is lower than 70 db(A).
- 4.High tightness, No air leakiness and oil leakiness: 2 sets of mechanical seal plus soft,hard seals etc, The planetary transmission box adopts complete seal structure, New design of bearing position, reasonable distribution of the bearing limit, reduce the wearing of bearing; The non load vacuum keeps above -0.092 in 24hours, ensure that no air leakiness and oil leakiness during the mixing ;

5.The gap between tank and paddles: paddles to paddles ,paddles to tank wall ,paddles to tank bottom , the gap is small, scraper design under the mixing paddles, High roundness inner the tank, The deviation is less than 0.2mm;

6.Large torsion output: precision casting mixing paddles SS316 stainless steel (adopts special steel for machines bigger than 650L, The material can restore itself if there is micro deformation, The mixing paddles won't deform under long time big torque running), The torque output is Simulation calculated by computer, High strength, suitable for high viscosity, high solid content Positive and negative pole slurry of Lithium battery (Lithium iron phosphate, ternary, ternary high nickel, Potassium manganate, Lithium Cobaltate etc) suitable for different process technology (dry mix, wet mix).

### **Application:**

1.Engineering adhesives :

RTV Silicon rubber—Silicon rubber for construction ( Silicone sealant,Acid glass adhesive),Silicon rubber for Mechanics,electronic. Polyurethane – Double component Polyurethane sealant, single component Polyurethane sealant, glass sealant, Organic sealant.....

2.Coatings:

Decorative coatings、 Anti-corrosion coatings, electric conduction coatings, Anti-rust coatings, High temperature resistance coatings, temperature-sensitive coatings, Heat-insulating coatings, titanium pigment.....

3.Ink :

Silicone plastic button ink, Modified plastic ink, Metallic glass inks, Shoe material ink, ABS ink, PU ink, UV ink, ink additives, pigment ink, Special ink for silica gel.....

4.New Energy:

Fuel cells, power battery, polymer lithium ion battery (LIP), button battery, lithium iron phosphate battery, battery for electromobile, lithium power battery, nickel metal hydride battery, mercury-free alkaline zinc-manganese battery, lithium (lithium ion) plastic battery, electrochemical energy storage super capacitors, lithium ion battery slurry.....

5.Electronic ( electric slurry paste):

Solder paste, lead-solder paste, lead-free solder paste, solder paste, dielectric paste, resistance paste, conductor paste, solder flux, cleaning agent, soft magnetic material, hydromagnetic material, electronic electrode paste, ceramic paste, magnetic material, electronic coating, electronic adhesives, electronic and electrical parts grouting glue, hot melt glue.....

6.Medicine :

Biopolymer gels, medical couplers, ointments, toothpaste, dental products.....

7.Food:

Chocolate, gum, maltose, jam, peanut butter, condiment.....

8.Others

Fine Chemicals, New Chemicals, Polymer Materials, Kaolin, Low, Medium and High Viscosity Materials (Liquid-Liquid, Liquid-Solid).....

### **Working principle:**

During the running of double planetary Vacuum power mixer , Two parallel mixing paddles run in accord with the set fixed rotation ratio, high speed rotating on its own axis at the same time of orbital revolution. There is scraper runs together with paddles' orbital revolution in the mixing tank, which moves the material to the paddles from tank wall, To archive the different shearing, The direction of both orbital revolution and rotating on its own axis can be fore ward and reversal; Another two high speed dispersing discs with separate driving device run in the mixing tank together with the orbital revolution, high speed dispersing , emulsification, The speed of high speed dispersing disc is adjusted by frequency inverter, The speed can be set in accord with demand;

The material can be completely well distributed emulsifying under this mixing mode , suitable for the dispersing and mixing of solid-solid, solid-liquid and liquid-liquid material;

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