



With innovative design, specially customized platform and modular dispersion grinding system

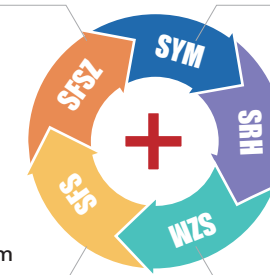
it consist of driving system, support system, control system, operating components and auxiliary system. With various working heads and optional components, various working mode can be achieved to provide the test with more possibilities. With superior accessories, high precision manufacturing, convenient control interface, which enables users to experience the fun of experimental work.

Vacuum Dispensing Mixing System

Basket Grinding System

High-speed Dispensing System

Grinding System



High-shear Emulsifying System

01 Easy replacement of dispersing and milling system

03 Electric lifting, height is with digital display

05 Removable stainless steel tray, can be quickly disassembled for cleaning

02 Integrated control system

04 Manual rotation clamping, convenient and flexible

06 Stainless steel control panel

Model	Power	Power	Lifting mode	Lifting stroke	Dimensions
SFYR-1.1	Single phase 220V / 50Hz	1.1KW	electric lifting	Max 500mm, pre-set 300mm	600 * 590 * 900mm (L * W * H)



SYM Basket Grinding System

SYM Basket Mill System, high efficient wet grinding equipment, used for dispersing and grinding liquid paste of middle and low viscosity within 10000CP. With super fine grinding media(yttrium stabilized zirconium beads and chrome beads for option),the grinding fineness can be down to 1µm or less. Specially designed driving disc can be zirconium, more wear-resistant and durable.

Speed: 100-6000rpm **Capacity:** 1-3L
Grinding chamber volume: 0.25L **Material:** SS304 / SS316L stainless steel
Grinding media: 0.6-2mm, yttrium stabilized zirconium beads / chrome beads optional
Equipped containers: 2.5L / 5L stainless steel tanks, with jacket for water cooling, with quick connectors
 With a lifting cover suitable for both 2.5L and 5L containers to realize closure; And with protection bellows.

SRH High-shear Emulsifying System

SRH High-shear Emulsifying System is equipped with two kinds of emulsifying agitators: High-shear Emulsifying agitator with claw structure distributes one or more phases into another continuous phase efficiently, rapidly and evenly (Normally each phase is immiscible.) The strong momentum of the high tangential speed and high frequency mechanical effect generated by high speed rotation rotor puts materials under comprehensive action of intense mechanical and hydraulic shear, centrifugal extrusion, liquid surface friction, crashing tear and turbulence in the narrow gap between the rotor and the stator, together with mature production process and proper quantity additive, the immiscible solid, liquid and gas phase are dispersed and emulsified evenly and properly within a short period and stable finished products with high quality is achieved after high-frequent circulations.

The function of Jetmixer emulsifying agitator: Jetmixer emulsifying agitator is the best choice when ordinary disperser cannot meet emulsifying requirements and high shear emulsifying system is too strong. It produces powerful macro and micro mixing, at the same time sufficiently disperses materials, no need for any additional high shear device to assist.

Speed: 100-6000rpm
Material: SS304 / SS316L stainless steel
Equipped containers: 2.5L / 5L stainless steel tanks, with jacket for water cooling, with quick connectors

Working head: two kinds of working heads, claw structure emulsifying agitator / Jetmixer emulsifying agitator, interchangeable
Tip speed: 22m / S **Capacity:** 1-5L

SZM Grinding System

SZM Bead Mill system is a relatively simple way of grinding, feed the slurry and grinding media into the tank at same time, seal the cover, start high speed stirring, the friction and crashing force generated by the high speed motion of grinding media refine the paste. Grinding media generally use glass beads or zirconia beads.

Speed: 100-6000rpm
Capacity: 0.5-1L
Material: SS304 / SS316L stainless steel
Agitator: Φ60 / Φ80mm Nylon grinding wheel, Φ85mm stainless steel or alloy steel eccentric grinding wheel

Grinding media: glass beads, cerium-stabilized zirconia beads, yttria stabilized zirconia beads (optional)
Equipped container: 1.5L special equipped stainless steel container with jacket for water cooling, with quick connectors

SFS High-speed Dispersing System

SFS High-speed Dispersing System is for mixing and dispersing solid-and-liquid or liquid-and-liquid paste. With specially designed single or double layer tooth type dispersing agitator and high tip speed, it generates strong shearing force to disperse and dissolve powders into the liquid rapidly.

Speed: 100-6000rpm
Capacity: 1-5L
Dispersing agitators: Φ50mm, Φ80mm, Φ100mm (single layer), Φ80mm, Φ100mm (double layer)
Material: SS304 / SS316L stainless steel
Equipped containers: 1.5L / 2.5L / 5L
 High speed rotating shaft with adjustable safety casing

SFSZ Vacuum Dispersing Mixing System

Since some paste requires vacuum condition during production to reduce or eliminate bubbles, weve specially developed a laboratory vacuum dispersing mixing system; multiple dispersing / mixing head for option, provide more possibilities for material testing.

Speed: 100-6000rpm
Capacity: 0.5-2L
 Vacuum degree can reach up to **50mbar**
Agitator: toothed disperser, butterfly type agitator, propeller agitator (all the working heads and dispersing systems are interchangeable)

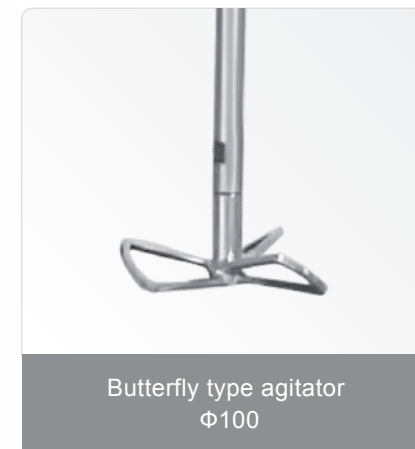
Material: SS304 / SS316L stainless steel
Equipped container: 2.5L stainless steel container, with jacket for water cooling, with quick connectors
 With closed cover, achieve vacuumizing after closing it; cover top is made of glass, easy to observe the material status
 Equipped with a 160W vacuum pump (Lab use)

Included and Optional Accessories



Control functions

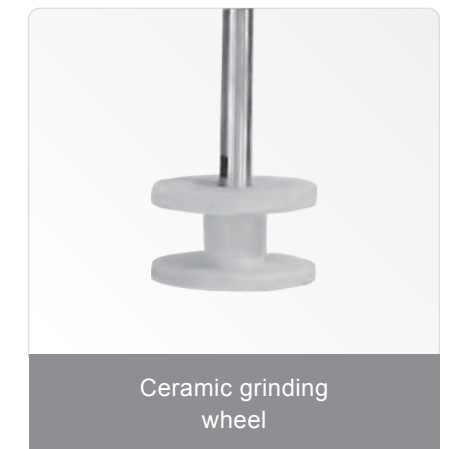
- Control system adopts Siemens HMI and PLC, SIEMENS/DANFOSS programmable
- vector inverter controller
- Speed display and controls, lifting height display and control, run-time display and control, output torque display, current display, current load display, total running time display
- With functions such as operating parameters save and output, fault alarm etc..
- Can create, edit and store ten sets of preset parameters
- Explosion-proof type can be customized



Butterfly type agitator
Φ100



Polyamide grinding wheel



Ceramic grinding wheel



Metal eccentric grinding wheel



Claw high shear emulsifying agitator



Jetmixer emulsifying agitator



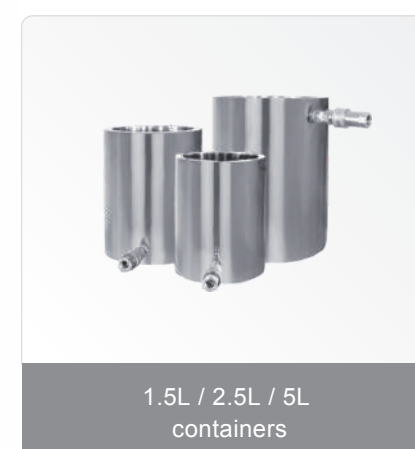
Single layer dispersing agitator
Φ50 / 80/100



Double layer dispersing agitator
Φ80 / 100



Trefoil propeller agitator
Φ60 / 100



1.5L / 2.5L / 5L containers



0-25μm、0-50μm、0-100μm fineness gauge



Lab Vacuum Pump