

SMART LAB High Speed Version Microtubule Jet High Shear Mixer



SMART LAB High-speed version is a newly launched multi-functional desktop dispersing equipment, providing functional modules such as dispersion, emulsification and grinding, with a maximum tip speed of about 40m/s, which meets the user needs of small flow, high precision and high tip speed. It is suitable for the fine mixing process of a variety of materials, stable performance, flexible use and convenient operation. Minimum processing capacity to mL level, a complete product line, and can achieve from desktop factory to existing process scaling.

Three advantages: Rapid reduction of particle size in oil-water emulsification process; The powder & liquid in small capacity is evenly dispersed; Fine crushing of materials with high tip speed.

Applicable: Nutritional/drug-loaded injections/injection emulsions, peptides/small molecule microspheres, oral/injection-grade suspensions, API crystal fragmentation, dispersing/hydrating processes of excipient thickeners, emulsification of veterinary drugs and adjuvants, etc.



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Order

30010

Optional Parts

Power	1.1kW/2P
Power supply	220V 50Hz
Flow rate range	0-100L/h
Agitator output rotation speed	8800-26000rpm
Max output tip speed	40m/s
Control system	Standard
Speed display	Digital display
Speed control	Stepless(frequency control)
Speed adjust way	Digital display frequency converter
Material of wetted parts	SS316L、FFKM/PTFE
Material of non-wetted parts	SS304
Agitator type	Precision tooth shape 2G/4M/6F (according to different process can choose stages of rotor & stator or change the rotor & stator form)
Working chamber	Stainless steel working chamber with jacket
Jacket inlet/outlet connection way	8mm hose connection plug type
Inlet size	3/4"
Outlet size	1/2"
Inlet/outlet pipe connection standard	ASME BPE clamp
Seal type	With lip seal structure(no external coolant structure)
Bearing box	With jacket bearing box
Bearing box jacket inlet/outlet size	8mm hose connection plug type
Base	Adjustable feet
Material of base	SS304
Metal material of wetted parts	SS316L、 surface electrochemical polishing: ≤0.4um
Metal material of non-wetted parts	SS304、 surface mechanical polishing: ≤0.8um
Material of electric control box	SS304、 surface brushed treatment
Dimensions	340mm*280mm*360mm
Weight	~38kg



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