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HIGH SHEAR GRANULATOR



DESCRIPTION:

GlobePharma's Model HSG-1-6 is a bench top high shear granulator with interchangeable bowls of 1-6 L. It is designed for mixing, wet granulation and pelletization of pharmaceutical powders. The basic unit is equipped with variable speed drives on both the impeller and the chopper for infinite adjustment of speed across the entire speed range. The bowls can be easily changed without the necessity of any tools making set up and cleaning easy. The unit is equipped to be connected to standard electrical outlets.

SPECIFICATIONS:

Mixing Bowl: The bowl is of a vertical cylindrical design with a conical upper section for maximum mixing efficiency. The bowls are fixed to the machine base by means of a bayonet locking system and can be installed or removed without use of any tools.

Bowl Lid: All bowls are equipped with transparent acrylic lids. The lids can be completely removed and is provided with an O-ring seal. The lid is fixed to the bowl with a knurled screw. There is a port for liquid addition and a temperature probe, if so equipped. The lid is equipped with a sintered metal filter.

Main Impeller: The main impeller is one piece with three tangentially welded wing-tip type blades. The end of each blade is enlarged for maximum mixing efficiency. The impeller can be installed and removed without use of any tools.

Chopper: The chopper has two "U" shaped blades which are laterally mounted on the wall of the bowl. The chopper can be installed and removed without use of any tools.

Seals: Both the impeller and the chopper drive shafts are equipped with Teflon (PTFE) seals, which can be easily removed for cleaning.

Machine Frame: The motors, variable frequency drives and controls are enclosed in a stainless steel frame with adjustable feet. The operator control panels are on the outside of the frame.

Safety Hood: The machine is equipped with an acrylic safety-interlocked hood which covers the entire mixing area. The hood has a safety switch and must be in a closed position for the machine to be operated. A liquid addition port is provided on the hood.

Drive System: Both the impeller and the chopper speeds are controlled by variable frequency drives for infinite adjustment of speed over the entire speed range. Maximum impeller speed is 1500 rpm and the maximum chopper speed is 2200 rpm.

Utilities: The basic unit is equipped to operate 208-230V/1 Phase/60Hz. A transformer can be accommodated within the machine to operate it with 110V/60Hz.

Materials of Construction & Finish: All the contact parts are made of 316 Stainless steel and polished to 0.8 μm finish. Exterior parts are made of 304 SS. The enclosure has satin finish.

Controls: Following controls are provided for simple operation of the machine:

- 2 x Variable Frequency Drives
- 1 x Multi-Function Unit
- 1 x Selector Switch for start/stop operation
- 2 x Push Buttons (On/OFF)