

# High Shear Mixer

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# High Shear Mixer



#### High Shear Mixer Feature

- The granulation process needs less binding
- Granulation can be completed in a short period of time
- Densification of the granules and formation of fewer friable granules
- The granulator creates less friable granules with a consistent particle size distribution that are reliable
- Due to reduced process dust formation, a high shear mixer reduces worker exposure to drug dust
- By utilizing a high shear mixer, the granulation endpoint is predictable
- ♦ It is possible to save 25% on adhesives and drying time
- ◆ This will have a cone mill or a swing granulator attached to it
- Vacuum conveying connects with fluid bed dryers in the pharmaceutical health-care, food, and chemical industries



- Touch screen control system with automatic PLC control 🔇
  - Data processing and history review are provided ( and printing is also accessible
- An explosion-proof system, as well as dependable interlock and earthing are all available
  - Increase the ultimate product yield significantly 🔷
- The granulating line process is completely closed making it suited for a wide range of products
- Meet FDA/cGMP criteria for process tracking and traceability data display on touch screen, and terminal control and monitoring
  - All of the parameters can be stored and they'llbe transferred to 🔷 an SD card or a USB drive
    - It is possible to build up many levels of operating authority 🔷
    - WIP's online cleaning method reduces work effort significantly 🔷





High Shear Mixer Function

- Following the loading of the materials into the high share mixer, the impeller creates granules by spinning the entire mixture in a tumbling action, resulting in the distribution of all dry and wet granules
- The chopper breaks up the huge lumps created during wet mixing, and both the Impeller and the chopper run at a slow speed when adding the Binder solution

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High Shear Mixer PRODUCT





# High Shear Mixer Advantage

- ◆ A fast powder and wet granulation process
- Precise and accurate granule production
- Short powder drying time
- A predictable production processes
- Greater densification
- Reduces air pollution due to advanced dust handling properties
- Single equipment for Mixing-Granulating-Drying
- Uniform distribution of all formulation ingredients

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# High Shear Mixer PRODUCT





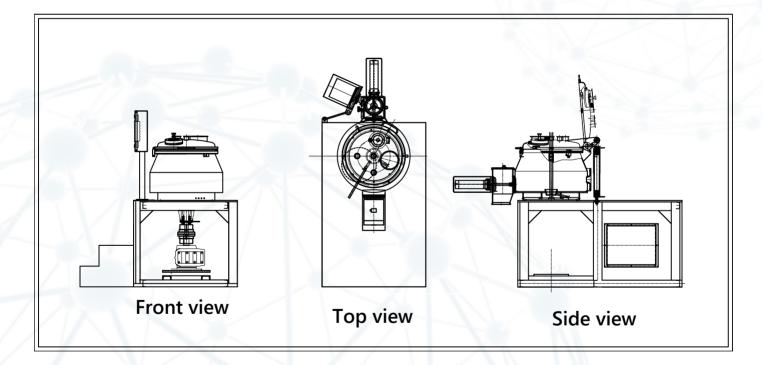
# High Shear Mixer Application

Pharmaceutical industry

Health product

Food industry

Dery industry



# High Shear Mixer Specification

# Technical parameters

Model		GL-100	GL-200	GL-300	GL-400	GL-500	GL-600	GL-800
Hopper volume(L)		110	220	320	420	520	640	880
Effective volume(L)		40-80	65-175	95-250	125-335	140-450	150-500	220-700
Feeding volume(L)		20-40	32-85	47-152	62-165	70-225	75-250	110-350
Mixing rotation speed(rpm)		20-250	8-200	8-160	8-160	8-150	8-150	5-130
Cutting rotation speed(rpm)		300-2800	300-2800	300-2800	300-2800	300-2800	300-1500	300-1500
Mixing power(kw)		11	15	22	22	30	30	37
Cutting power(kw)		4	5.5	7.5	7.5	7.5	11	11
Compressed air	Pressure	0.4-0.6	0.4-0.6	0.4-0.6	0.4-0.6	0.4-0.6	0.4-0.6	0.4-0.6
	Consumption (M³/min)	0.2-0.8	0.2-0.8	0.2-0.8	0.2-1.1	0.2-1.1	0.2-1.5	0.2-1.5

Feature	
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# High Platform High Shear Mixer

# High Platform High Shear Mixer Feature

- Meet FDA/cGMP criteria for process tracking and traceability data display on touch screen, and terminal control and monitoring
- All of the parameters can be stored, and they'll be transferred to an SD card or a USB drive
- Increase the ultimate product yield significantly





It is possible to build up many levels of operating authority 🔷

Contact product part material is stainless steel 316L 🚸

### High Platform High Shear Mixer Function

- Following the development of the wet mass, the impeller and chopper are driven at high speeds to achieve the desired Granule size
- The impeller can then discharge the wet granules through the outlet on the side of the mixing bowl that is flush with the bottom



# High Platform High Shear Mixer Advantage

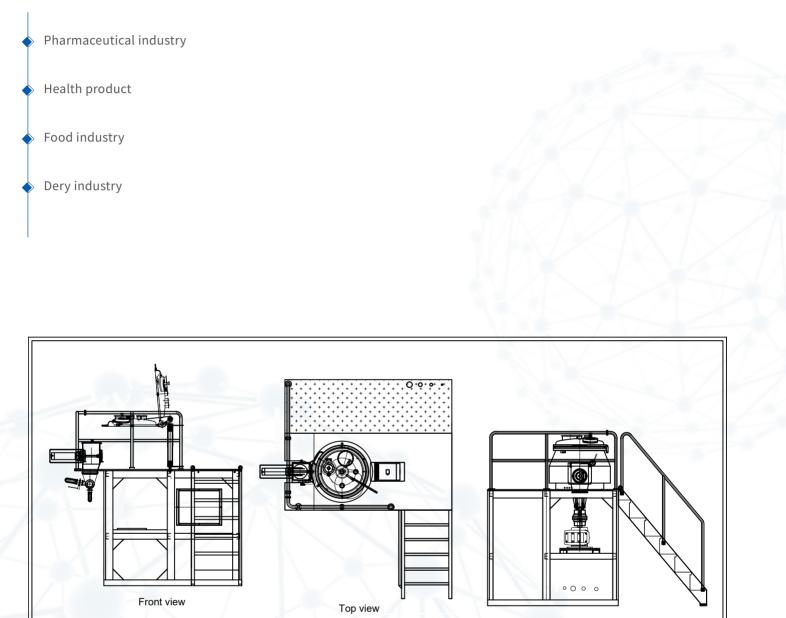
- Short mixing and granulation time to achieve desired granules profile
- Uniform granules by gentle processing
- Wide range of applications
- Fully Automated System for GMP compliant

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# High Platform High Shear Mixer PRODUCT



# High Platform High Shear Mixer Application



Side view

# High Platform High Shear Mixer Specification

# Technical parameters

Model		GM-100	GM-200	GM-300	GM-400	GM-500	GM-600	GM-800
Hopper volume(L)		110	220	320	420	520	640	880
Effective volume(L)		40-80	65-175	95-250	125-335	140-450	150-500	220-700
Feeding volume(L)		20-40	32-85	47-152	62-165	70-225	75-250	110-350
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	Consumption (M³/min)	0.2-0.8	0.2-0.8	0.2-0.8	0.2-1.1	0.2-1.1	0.2-1.5	0.2-1.5