

## LHS Series High Shear Mixer



LHS High Shear Mixer, one of the commonly used equipment's in solid preparation production, is widely used in pharmaceutical, chemical and foodstuff industries. This equipment has functions of mixing and granulating.

The High Shear Mixer can complete the processes of mixing, binder charging and granulating at one time, and by using impeller, the materials move axially, radially and tangentially in the container, so as to obtain the uniform mixed powder. The mixed powder is combined with binders or wetting agents to form soft materials, then the soft materials are formed as particles after cutting by chopper. Figure 1 shows the operation of high shear mixer. The features of particles prepared by wet granulation are: better surface modification, well-shaped appearance, strong wear resistance, good compression form-ability, etc.

High Shear Mixer is a machine of electricity and gas integrated equipment which applies PLC program control technology and frequency conversion control technology. The wet mixing granulator is an integrated machine, electricity and gas equipment that applies PLC program control technology and frequency conversion control technology. It is suitable for mixing and granulating powdery loose materials in the pharmaceutical, food, chemical and other industries, and can also be used for dry powder mixing.

### Features

- Variety of Charging Methods: Vacuum charging/Lifter charging/Manual charging
- Follow the regulations of cGMP, PIC/S GMP, FDA
- Safety interlock system
- Tangential impeller
- On-line milling solution
- WIP system

## Parameters

		<b>LHS25</b>	<b>LHS50</b>	<b>LHS75</b>	<b>LHS100</b>	<b>LHS150</b>
Nominal volume	L	25	50	75	100	150
Feed quantity	L	10~20	20~40	30~60	40~80	60~120
Impeller power	kW	2.2	4	5.5	11	15
Impeller speed	r/min	20~200	20~200	20~200	20~200	15~175
Granulation power	kW	1.1	2.2	3	4	3
Granulation speed	r/min	1000~2000	1000~2000	1000~2000	1000~2000	1000~2000
Mill power	kW	0.75	0.75	0.75	1.1	3
Mill speed	r/min	300~900	300~900	300~900	300~900	300~900
Air consumption	m <sup>3</sup> /min	0.4	0.4	0.4	0.4	0.6
Air pressure	MPa	0.6	0.6	0.6	0.6	0.6

		<b>LHS200</b>	<b>LHS300</b>	<b>LHS400</b>	<b>LHS500</b>	<b>LHS600</b>
Nominal volume	L	200	300	400	500	600
Feed quantity	L	80~160	120~240	160~320	200~400	240~480
Impeller power	kW	18.5	22	30	37	45
Impeller speed	r/min	15~175	15~175	15~175	15~175	15~175
Granulation power	kW	5.5	7.5	7.5	11	11
Granulation speed	r/min	1000~2000	1000~2000	1000~2000	1000~2000	1000~2000
Mill power	kW	3	3	4	4	5.5
Mill speed	r/min	300~900	300~900	300~900	300~900	300~900
Air consumption	m <sup>3</sup> /min	0.6	0.6	0.6	1	1
Air pressure	MPa	0.6	0.6	0.6	0.6	0.6

		<b>LHS800</b>	<b>LHS1000</b>	<b>LHS1200</b>	<b>LHS1500</b>
Nominal volume	L	800	1000	1200	1500
Feed quantity	L	320~640	400~800	480~960	600~1200
Impeller power	kW	55	55	75	75
Impeller speed	r/min	10~145	10~120	10~110	10~100
Granulation power	kW	15	15	18.5	2×18.5
Granulation speed	r/min	1000~2000	1000~2000	1000~2000	1000~2000
Mill power	kW	5.5	5.5	5.5	2*5.5
Mill speed	r/min	300~900	300~900	300~900	300~900
Air consumption	m <sup>3</sup> /min	1	1.5	1.5	2
Air pressure	MPa	0.6	0.6	0.6	0.6