

MG-series High Speed Mixer Granulator



PMS Mixer® is a high-speed mixer granulator (HSMG) that combines multiple functions, including mixing, dispersing, and high-shear granulating, into a single operation with optimal cycle times. This innovative machine is designed to meet the demands of today's fast-paced production environments, offering an efficient and cost-effective solution for a wide range of applications.

With this mixer, dry mixing can be accomplished as rapid as 1-3 minutes, while wet granulation can be performed within 3-6 minutes, ensuring maximum productivity and efficiency. All ingredients are blended thoroughly and uniformly, resulting in a consistent product. The unique design of the mixer granulator also minimizes product loss, making it an ideal solution for industries where product waste must be kept to a minimum. The machines are available in a range of sizes, from laboratory-scale models up to large-scale production units, making it a versatile choice for companies of all sizes.

The PMS Mixer® utilizes a conical mixing bowl design, ensuring complete separation of product contact parts from driving components. All product-contacting parts are constructed of high-quality stainless steel SUS 316, and are mirror polished to maintain hygienic standards. A pneumatically operated seal between the mixing bowl and lid, along with air purge labyrinth seals between the bowl and shafts, provides a dust-tight operation.

APPLICATION

- Pharmaceuticals: Wet Granulation of Active Ingredients & Excipients, Granulation for Herbal Medicines, Mixing and Granulation of Dry Powder Inhaler Formulations, Preparation of Instant Granules for Effervescent Tablets and Dissolvable Films
- Cosmetics: Mixing and Granulating for Face Powder, Body Powder (Talcum & Corn Powder), Eye Shadow, Brush on, Two Way Powder

- Food: Mixing and Granulation of Seasoning, Soups, Drink Mixes, and Instant Food, Production of Dry Mixes of Cereals, Snacks, and Confectionery Products, Preparation of Bakery Products, Wet Granulation of Health Food, and Granulation of Instant Coffee and Tea Blends
- Agricultural: Granulation of Chemical Fertilizers, Biofertilizers, and Organic Fertilizers, Mixing and Granulation of Animal Feed and Feed Additives, Preparation of Soil Conditioning Agents
- Chemical: Mixing and Granulation of Powders and Pellets to be used in Detergents,
 Chemical Fertilizers, and Plastics, Production of Catalysts and Adsorbents, Mixing of
 Polymers and Additive for Plastic Industry, Granulation of Powdered Paints and Coating
- Other: Mixing and Granulating of Metal Powders, Production of Metal Oxide Catalysts & Sorbents, Mixing and Granulating of Ceramic Powders, and Mixing and Granulating of Battery Electrode Materials.

Technical Parameters

	3	MG3	MG 15	MG 30	MG 50	MG 100	MG 150	MG 300
TOTAL BOWL VOLUME	L	3	18	36	55	120	160	324
MAX WORKING VOLUME	ι	2.2	13.5	27	41	90	120	246
AGITATOR MOTOR	KW	0.55	1.5/2.2*	4.0/5.5*	4.0/5.5*	7.5/11*	11/15*	15/18.5*
AGITATOR SPEED	RPM	384	200/400*	176/352*	162/324*	127/253*	110/220*	87/174*
CHOPPER MOTOR	KW	0.18/0.37*	0.75/1.5*	1.5/2.2*	1.5/2.2*	4.0/5.5*	4.0/5.5*	5.5/7.5*
CHOPPER SPEED	RPM	1500/3000*	1500/3000*	1500/3000*	1500/3000*	1500/3000*	1500/3000*	1500/3000*

		MG 400	MG 600	MG 800	MG 900	MG 1200	MG 1600	MG 2000
TOTAL BOWL VOLUME	L	440	686	865	1,000	1,294	1,650	2,210
MAX WORKING VOLUME	L	330	514	648	750	970	1,240	1,650
AGITATOR MOTOR	KW	18.5/22*	30/37*	37/45*	45/55*	55/75*	75	90
AGITATOR SPEED	RPM	76/152*	64/128*	58/116*	55/110*	50/100*	47	42
CHOPPER MOTOR	KW	5.5/7.5*	7.5/11*	11/15*	15/18.5*	15/18.5*	22/30*	30/37*
CHOPPER SPEED	RPM	1500/3000*	1500/3000*	1500/3000*	1500/3000*	1500/3000*	1500/3000*	1500/3000*