

Plough Shear Mixer

1. DESCRIPTION

The Chem Maco Plough Shear Mixer is a high-efficiency batch mixing machine designed for rapid and homogeneous mixing of powders, granules, fibers, and dry chemical formulations. The specially designed plough-shaped mixing elements create a three-dimensional mechanical fluidization effect, ensuring intensive mixing and excellent product uniformity within short processing times. Optional high-speed choppers can be incorporated for deagglomeration and dispersion of lumps. The machine is widely used in chemical, food, pharmaceutical, agrochemical, mineral, and construction chemical industries for dry blending and specialty mixing applications.

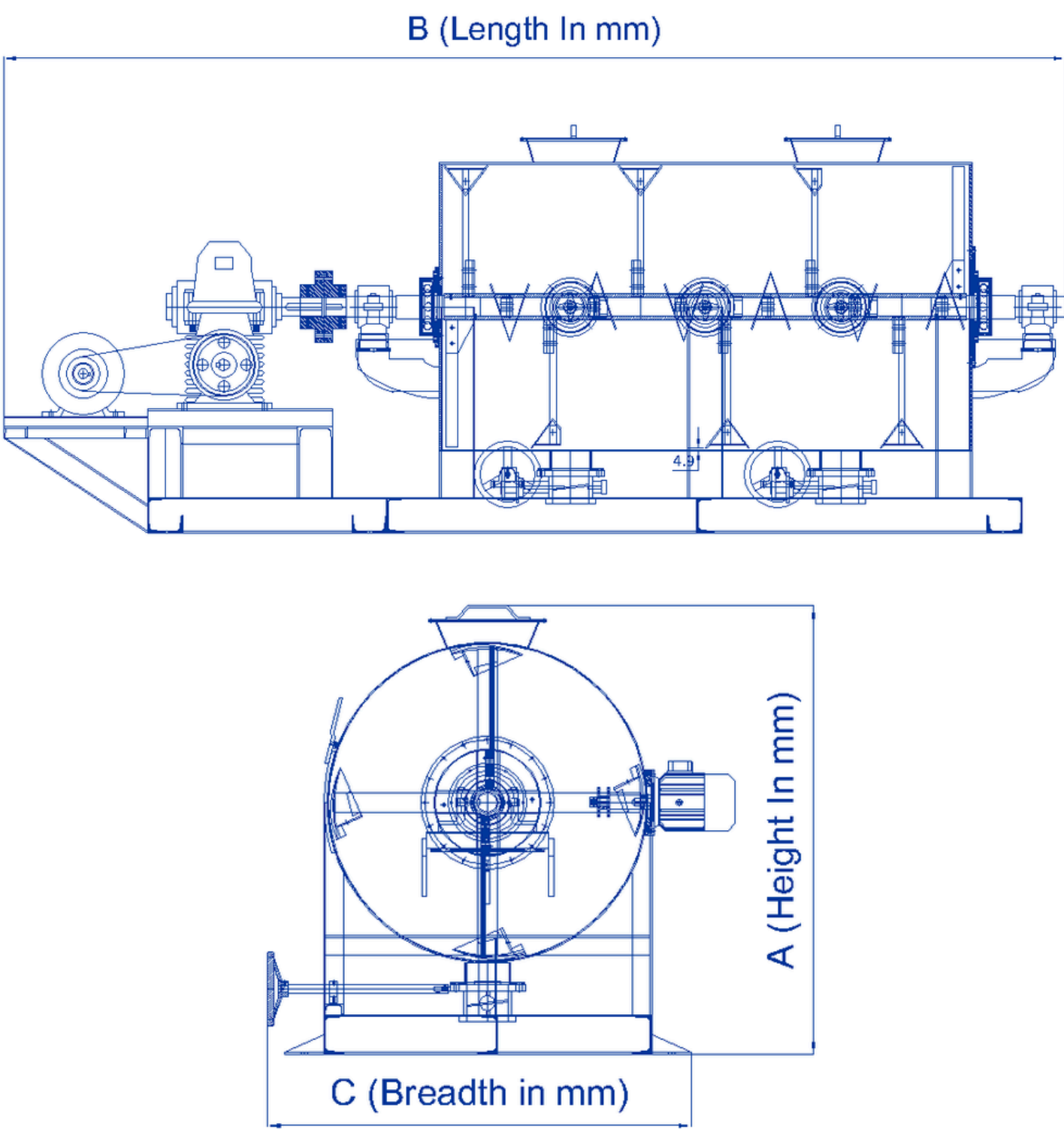


2. TECHNICAL SPECIFICATIONS

Specification	PSM-500	PSM-1000	PSM-2000	PSM-3000	PSM-5000
Batch Capacity	500 kg	1000 kg	2000 kg	3000 kg	5000 kg
Gross Vessel Capacity	750 L	1500 L	3000 L	4500 L	7500 L
Main Mixing Motor	10 HP	20 HP	40 HP	50 HP	75 HP
Main Drive	Heavy Duty Gearbox				
Mixing Element	Plough Shear Blades				
Mixing Chamber Type	Horizontal Cylindrical				
Shaft Material	EN8				
Contact Parts	MS				
Construction	MS				
Discharge Type	Butterfly Valve				
Speed Control	VFD Optional				
Operation	Batch Type				
Mounting	Floor Mounted (With Foundation)				
Control Panel	Standard / FLP Optional				
Power Supply	415V, 3Ph, 50Hz				

Note: All capacities are approximate and may vary depending on material viscosity, specific gravity and process conditions.

3. GENERAL ASSEMBLY DRAWING



4. DIMENSIONS (APPROX)

Model	A Height (mm)	B Length (mm)	C Breadth (mm)
PSM-500	1800	2500	1200
PSM-1000	2200	3200	1500
PSM-2000	2600	4200	1800
PSM-3000	2900	5000	2100
PSM-5000	3400	6200	2500

Note: Dimensions are approximate and may change based on customization.

