

HIGH SPEED DISPERSER

HYDRAULIC FRAME TYPE

1. DESCRIPTION

The Chem Maco High Speed Disperser – Hydraulic Frame Type is a heavy-duty industrial dispersion machine designed for paint manufacturing, pigment dispersion, ink production, chemical blending, adhesive processing, and high shear mixing applications. Built on a rigid hydraulic frame structure, the machine offers excellent operational stability, smooth hydraulic lifting, and reliable performance in demanding production environments. Its high-speed saw-tooth cowl impeller generates intense shear forces that rapidly wet powders, break agglomerates, and produce uniform dispersion throughout the batch. Available with VFD speed control and MS, SS304, or SS316 contact parts, the disperser is suitable for a wide range of low to high viscosity products. Engineered with industrial-grade components and robust construction, Chem Maco Hydraulic Frame Type Dispersers are built for continuous operation, low maintenance, and dependable service life spanning decades in paint, coating, ink, and specialty chemical manufacturing plants.

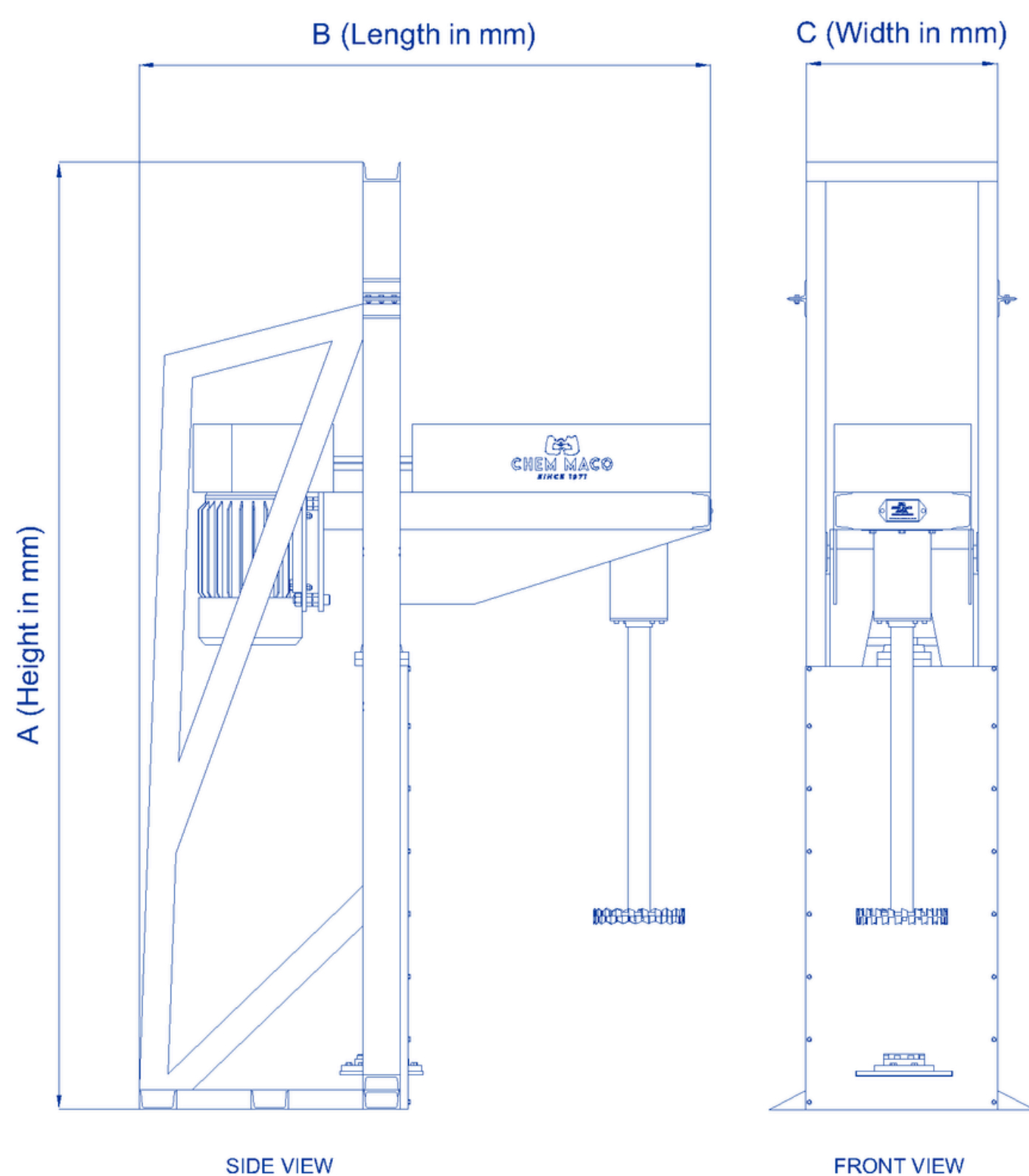
ALSO AVAILABLE IN LABORATORY SCALE

2. TECHNICAL SPECIFICATIONS

MODEL	HSD-HT-100	HSD-HT-200	HSD-HT-500	HSD-HT-1000
Batch Capacity (Approx.)	100 kg	200 kg	500 kg	1000 kg
Motor Power	3 HP	5 HP	7.5 HP	15 HP
Speed Range	0 – 1450 RPM (Variable Frequency Drive)			
Dispersing Blade Diameter	Ø 200 mm	Ø 250 mm	Ø 300 mm	Ø 400 mm
No. of Blades	1 Nos.	1 Nos.	1 Nos.	1 Nos.
Lift Type	Hydraulic (Tree Type)			
Lift Stroke	600 mm	700 mm	1000 mm	1400 mm
Powerpack Motor	0.5 HP	1 HP	2 HP	2 HP
Construction	Mild Steel Fabricated (SS 304 / SS 316 Contact Parts Options)			
Power Supply	415V, 3Ph, 50Hz (Other Voltages on Request)			
Control Panel	FLP / Ex-d (Optional) with VFD for Speed Control			
Mounting	Floor Mounted			

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)
HSD-HF-100	2000	1100	350
HSD-HF-200	2300	1300	420
HSD-HF-500	2850	1700	550
HSD-HF-1000	3175	1915	640

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

