



Unique Mixers & Furnaces Pvt. Ltd.

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Basic Technical Specifications For Single Planetary Mixer

Volume	Refer Capacity Table
Container Internal Dimensions	Refer Capacity Table
Container Shape	Cylindrical Shell with Hemi-spherical bottom
Material of Construction (Options)	Product Contact, Non Contact Parts : <ul style="list-style-type: none">▪ Carbon Steel Confirming to ASTM A 36 / IS 2062▪ ASTM SA 240 Gr. 304/ Gr. 316 / Special Alloy Material
Jacket for Heat Transfer (Optional)	<ul style="list-style-type: none">▪ Made from Carbon Steel Confirming to ASTM A 36 / IS 2062; ASTM SA 240, Gr. 304.▪ Standard Design Pressure: 4 kg/cm² (g)
Container Cover	<ul style="list-style-type: none">▪ Cover with Inspection port.
Stand	Material of Construction – Structural Steel / Carbon Steel / Stainless Steel. Suitable to withstand dynamic load of mixer
Surface Finish	<ul style="list-style-type: none">▪ Internal Stainless Steel Surfaces are polished to 120 grit▪ External Stainless Steel Surfaces are matt polished / glass bead blasted▪ Mild Steel Surfaces: Epoxy Painted / Synthetic Enamel Painted
Mixing Blades (Options)	Profile : <ul style="list-style-type: none">▪ Batter Beater▪ Drop Centre Beater▪ Others on request▪ Optional Scraper Blade
Blade Motion	Planetary Motion. Blade rotates about the centre line of the container and also revolves about its own axis.
Drive	Standard <ul style="list-style-type: none">▪ 3 Phase, Non Flame Proof , Induction Motor, 415 V, 50 Hz▪ Gearbox – Worm Reduction / Helical Reduction▪ Suitable Couplings▪ Constant Speed Operation Optional <ul style="list-style-type: none">▪ Geared Motor▪ Variable Speed Operation using Variable Frequency Drive
Charging	Through Top of the Container
Discharging	Through Bottom Discharge Valve
Lifting and Lowering of the container	Through manual mechanical / motorized mechanical/ hydraulic arrangement
Electricals	Electrical Control Panel made from Carbon Steel, Powder Coated. Provided with suitable Control Devices, Indicators, Switch Gears, Overload Protection, Safety Interlocks.
Overall Dimension	Refer Capacity Table
Lab Equipment	Available in 5, 10 Liters Working Capacity
Optional Features	GMP Equipment

Note: Specifications are for reference only and are subject to change without prior notice.