



# Unique Mixers & Furnaces Pvt. Ltd.

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## Basic Technical Specifications For Double Planetary Mixer

<b>Volume</b>	Refer Capacity Table
<b>Container Internal Dimensions</b>	Refer Capacity Table
<b>Container Shape</b>	Cylindrical with Flat Bottom Dish having knuckle radius
<b>Material of Construction (Options)</b>	Product Contact, Non Contact Parts : <ul style="list-style-type: none"> <li>▪ Carbon Steel Confirming to ASTM A 36 / IS 2062</li> <li>▪ ASTM SA 240 Gr. 304/ Gr. 316 / Special Alloy Material</li> <li>▪ Wear Resistant Liners can be provided for abrasive material</li> </ul>
<b>Jacket for Heat Transfer (Optional)</b>	<ul style="list-style-type: none"> <li>▪ Made from Carbon Steel Confirming to ASTM A 36 / IS 2062; ASTM SA 240, Gr. 304.</li> <li>▪ Standard Design Pressure: 4 kg/cm<sup>2</sup> (g)</li> </ul>
<b>Container Cover</b>	<ul style="list-style-type: none"> <li>▪ Cylindrical cover with Nozzles as requires. Clamped to Container.</li> </ul>
<b>Stand</b>	Material of Construction – Structural Steel / Carbon Steel / Stainless Steel. Suitable to withstand dynamic load of mixer
<b>Surface Finish</b>	<ul style="list-style-type: none"> <li>▪ Internal Stainless Steel Surfaces are polished to 120 grit</li> <li>▪ External Stainless Steel Surfaces are matt polished / glass bead blasted</li> <li>▪ Mild Steel Surfaces: Epoxy Painted / Synthetic Enamel Painted</li> </ul>
<b>Mixing Blades (Options)</b>	Profile : <ul style="list-style-type: none"> <li>▪ Rectangular Blades (2 nos.)</li> <li>▪ Other Profiles as per product requirements.</li> </ul> Material of Construction : <ul style="list-style-type: none"> <li>▪ Cast steel confirming to ASTM A216 Gr. WCB / IS 1030</li> <li>▪ Cast Stainless Steel confirming to ASTM SA 351 CF 8 / CF 8M / CF 3 / CF 3M</li> <li>▪ Special Alloy Material</li> </ul>
<b>Blade Motion</b>	Planetary Motion. Blades rotate about the centre line of the container and also revolve about their own axis.
<b>Drive</b>	Standard <ul style="list-style-type: none"> <li>▪ 3 Phase, Non Flame Proof , Induction Motor, 415 V, 50 Hz</li> <li>▪ Gearbox – Worm Reduction / Helical Reduction</li> <li>▪ Suitable Couplings</li> <li>▪ Constant Speed Operation</li> </ul> Optional <ul style="list-style-type: none"> <li>▪ Geared Motor</li> <li>▪ Variable Speed Operation using Variable Frequency Drive</li> </ul>
<b>Charging</b>	Through Top of the Container
<b>Discharging</b>	Through Top of the Container
<b>Lifting and Lowering of the container</b>	Through a hydraulic cylinder using manually operated hydraulic pump / hydraulic power pack.
<b>Electricals</b>	Electrical Control Panel made from Carbon Steel, Powder Coated. Provided with suitable Control Devices, Indicators, Switch Gears, Overload Protection, Safety Interlocks.
<b>Overall Dimension</b>	Refer Capacity Table
<b>Lab Equipment</b>	Available in 5, 10 Liters Working Capacity
<b>Optional Features</b>	GMP Equipment, Vacuum Operation, etc.

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