



Unique Mixers & Furnaces Pvt. Ltd.

Plot B-95, Road No. 27, Wagle Indl. Estate, M.I.D.C., Thane - 400 604, India

Tel.: 91-22-2582 2385, 2582 0172 | Fax : 91-22-2582 0992

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Basic Technical Specifications For Double Arm Sigma Mixer

Volume	Refer Capacity Table
Container Internal Dimensions	Refer Capacity Table
Container Shape	‘W’ shaped
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 ▪ Wear Resistant Liners can be provided for abrasive 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 (Options)	<ul style="list-style-type: none"> ▪ Flat cover with Nozzles as required ▪ Dome shaped cover with Nozzles as requires ▪ Hinged
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"> ▪ ‘Z’ shaped Sigma Blades (Standard) ▪ Masticator Blades ▪ Naben Blades ▪ Spiral Blades Material of Construction : <ul style="list-style-type: none"> ▪ Cast steel confirming to ASTM A216 Gr. WCB / IS 1030 ▪ Cast Stainless Steel confirming to ASTM SA 351, CF 8 / CF 8M / CF 3 / CF 3M ▪ Special Alloy Material
Bearing Housing	Bearing Housing made of Cast Iron Grade ASTM A-48 Gr. 30 with suitable bearings. Generally Thrust Bearing for Axial load, Spherical Roller Bearing for Radial load
Stuffing Box	Two stage Sealing <ul style="list-style-type: none"> ▪ First Stage – Hylem / Teflon Seal ▪ Second Stage – Pure Teflon Gland Packing
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 Cover
Discharging	Through Top Cover by tilting of container
Container Tilting (Options)	<ul style="list-style-type: none"> ▪ Through manual arrangement in lab equipment, small capacity equipment ▪ Through Motorized Mechanical arrangement ▪ Through Hydraulic Cylinder using Hydraulic Power Pack.

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



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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 3, 5, 10 Liters Working Capacity
Optional Features	GMP Equipment, Vacuum Operation, Quick Clean design, etc.

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