



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

info@uniquemixer.com | www.uniquemixer.com

Basic Technical Specifications For Plough Share Mixer

Volume	Refer Capacity Table
Container Internal Dimensions	Refer Capacity Table
Container Shape	Cylindrical Drum, Horizontal
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)
Nozzles	<ul style="list-style-type: none">▪ Feed Nozzle▪ Liquid Spray Nozzle▪ Inspection Nozzle▪ Any other nozzles as required
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 Element	Plough Shaped Shovels. Shovel arms are bolted to the horizontal shaft.
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 Feed Nozzle
Discharging	Through centrally located Bottom Discharge Nozzle. Valve Options: <ul style="list-style-type: none">▪ Flush Bottom▪ Slide Gate Valve▪ To suit customer requirements
Chopper Assembly (Optional)	Single / Multiple with Chopper Blades for disintegration of Agglomerates
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, Vacuum Operation, etc.

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