

RESIN MIXER

Sr#	Description	Qty
1	<p><u>Resin Mixer</u></p> <ul style="list-style-type: none"> • A vertical mixer of change can option. • It should be suitable for vacuum operation. • The discharge of mixed vessel bottom should be equipped with appropriate valve type. • The agitator motion allows no dead end for mixing. • Mixing vessel is to be equipped with heating and cooling jacket. • It should also include vacuum pump with buffer tank/filter . • The mixer should include vessel raise platform to easily discharge mixed material from bottom into desired containers. • Mixer is to be equipped with load cell for measurement of mixing contents. <p>Scope of Supply: Mixer with mixing vessel, vacuum system and vessel raise platform.</p> <p>Mixing Vessel Capacity: 10-120 liters</p> <p>Mixing Material:</p> <ul style="list-style-type: none"> ○ Mainly polyurethanes binder contents. ○ Specific gravity: 1-1.5 <p>Heating & Cooling: Jacket to be provided in vessel for heating and cooling purpose (10-90 Celsius)</p> <p>Gauge(s): Temperature and vacuum gauge</p> <p>Ports at Vessel's Top: Charge Port, Vacuum Port & Sight Glass</p> <p>Agitator:</p> <ul style="list-style-type: none"> ○ Agitator of variable speed ○ Speed Range: 0-1500 rpm ○ Mixing Vessel Design & Material(s) of Construction: ○ Change can type mixer is required so mixing vessel can be detached from the mixer. ○ Vessel design to ensure no contamination of material occurs in it. ○ Vessel inside body finish must aid in easy discharge of material through its bottom ○ Material of construction of all wetted parts should be SS-304/316L ○ Mixing vessel should be equipped with castor wheels for movement <p>Motor:</p> <ul style="list-style-type: none"> ○ 380-400V or compatible with the mixing vessel capacity ○ 3 Phase ○ Motor and all electrical connections should be compatible for ATEX Zone EExdII CT4 and IP66 <p>Discharge of Material: mixing vessel should be equipped with bottom discharge valve</p> <p>Mixer Lid & Seal: suitable for operation under vacuum</p> <p>Blade Type: suitable for solid/liquid mixing. Marine propeller will</p>	One Complete System

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	<p>be preferred</p> <p>Parts Finishing: all parts in contact with the mixing material should be smooth and polished finish. No sharp edges are acceptable</p> <p>Scraper (if required): scraper with replaceable Teflon blade</p> <p>Vessel Lift Platform: vessel lift/raise platform is required to lift vessel up to 5 feet max for discharge from bottom.</p> <p>Vacuum Pump: compatible vacuum pump with explosion proof motor, with SS buffer tank or removable vapor filter.</p> <p>Vacuum Requirement: <100 mmHg</p> <p>Control System/Safety Interlock:</p> <ul style="list-style-type: none">○ Safety limit switches to ensure safe operation○ Control panel with push buttons for operation○ Emergency stop○ Voltmeter○ Ammeter○ RPM meter○ All Electrical connections should be compatible for ATEX zone EExdIICT4 and IP66	
<p>Notes:</p> <p>a. Technical literature of the offered system must be provided with the quotation, along with drawing(s).</p> <p>b. Country of origin of the system as well as its major components should be mentioned in the quotation.</p>		