

109-011577

Bituminous Adhesive Machine

This unit shall be a trailer mounted bitumen-type marker adhesive applicator capable of heating and dispensing metered quantities of thermal adhesive bitumen-type material at approximately 425 degrees F. on roadways. This unit shall have two (2) dispensing systems and two control systems for application of bitumen from either side of trailer.

Trailer shall be constructed of 2" X 2" X 11 gauge steel square tubing with miter joints and full electric weld, this trailer shall have a minimum of 1700 lbs. leaf springs and a 4" offset axle. The bed of the trailer shall be 5' 8" X 8' and shall be made of 14 gauge steel plate. Tire size shall be a minimum of 175-80-D. Trailer shall have tail and stop light a four prong connector near hitch, tag plate holder with light. Welded to the bed shall be a operator's safety containment bar and LP bottle support bracket and positive holding clamp on right rear of trailer. The tongue shall be 3 feet long with a 2" snap action ball hitch mounted to an adjustable 10" vertical or horizontal plate with safety chain. The jack shall be a standard crank-type swing-away jack stand mounted to trailer.

There shall be a box constructed from 14 gauge steel and to be 23" X 32" X 12" in size mounted to the trailer bed for bituminous storage. There shall also be a storage basket fabricated from expanded metal 20" X 30" X 5" located by operator mounted to trailer bed for marker storage.

An operators seat complete with foot support, guard rail and seat belt shall be located on left side in front of trailer wheel. Foot support shall be 12" wide with a 3" lip and shall be adjustable for leg length. The complete seat and foot frame with valve line, shall swivel to a vertical position and fasten in place by a 5/8" spring loaded pin and socket. The operator's seat shall be approximately 9" above ground.

The power pack frame is to be constructed with angle iron and mounted to trailer and supported by rubber pads off trailer bed. Generator, air compressor, engine and belt guard are to be mounted on frame.

The generator shall be a minimum of 2000 watts 120 Vac at 3600 RPM with voltage gauge.

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The air compressor shall be a minimum of 2.5 CFM at 100 PSI and equipped with a 15 gallon air tank with a safety overload valve. Air system pressure shall be set at 90-95# controlled by a continuous run un-loader valve.

The engine shall be an 8 H.P. Lp fueled, electric start to drive generator and compressor. This unit shall also have a locking battery box.

The melting pot shall be mounted on the trailer frame; the vat shall be made of steel and have a minimum of 39 gallon capacity. The vat shall be jacketed for insulation. The heating chamber shall be vented by holes in the top of the insulation jacket and a sliding door provided in the jacket for lighting pilot light..

The heating system shall consist of a minimum 10" 60,000 BTU burner to melt bituminous material and consist of a flame guard to protect the bottom. The burner shall be thermostatically controlled with adjustable temperature range to a minimum of 175 degrees to a maximum of 550 degrees F.

The gas valve shall be a millivolt powered, 100% safety shut-off valve with block out installed for LP gas only. The system shall include all necessary piping, connectors, regulators, and valves for operation and all parts are to be UL approved.

The vat shall come equipped with an agitator driven by a 120 VAC motor with a disc clutch system and have a removable crank handle to operate agitator manually.

The dispensing system shall be a free floating piston and valve combination capable of dispensing no more than 0-9 cubic inches of material per stroke at a minimum of 0-20 strokes per minute. The pump shall be enclosed in an insulated jacket and heated from the heating chamber of vat.

The dispensing pipe shall be insulated and all items that are hot to touch shall all be enclosed and marked in red. Pipe lines are to be heated internally with sheathed heaters and temperature controlled

The dispensing valve is to be a drip free quick action plunger type, operated by an air cylinder heated by a cartridge heater and controlled by a pre-set thermostat pre-set at 400 degrees F. All material flow shall be foot pedal activated.

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The control system shall be constructed out of 16 gauge steel and mounted to a box on trailer within easy reach of operator

The control board shall consist of a solid state microprocessor with LED display a 15 amp fuse holder and input power switch to control board on/off, power stirrer switch on/off, dispenser valve heat switch on/off with indicator light, flow line temperature switch on/off with indicator light, safety air valve control switch on/off, pump pressure regulator with gauge 0-80 # minimum.

The warranty shall cover all defective components for (1) year from the date unit is put in service.

Parts manual and repair manual shall be included in bid price: