



6165 W Detroit St. • Chandler AZ 85226
 +1 (602) 276-0406 • +1 (800) 528-8242 • FAX +1 (480) 961-0513
 www.crafco.com

SPECIFICATIONS

**46500EB E-Z SERIES II 1500 DPEB
 MELTER APPLICATOR WITH DOUBLE
 PUMP; PUMP ON DEMAND FEATURES;
 DIESEL-FUELED**

APRIL 2017

It is the purpose of these specifications to describe a double boiler type melter applicator that is specifically designed for and shall be capable of heating and applying all grades of asphalt rubber sealant, asphalt fiber blends and specification hot pour crack and joint sealants without further equipment modification. This unit shall be the manufacturer's current production model.

| | <u>Comply</u> | <u>Does Not Comply</u> |
|--|---------------|------------------------|
| 1. GENERAL SPECIFICATIONS | | |
| A. The machine shall be capable of starting at ambient temperature and bringing the sealant material up to application in less than one hour at 70°F ambient temperature. | _____ | _____ |
| B. All qualified bidders must have and maintain a complete inventory of repair parts and have experienced factory trained service personnel for this equipment. | _____ | _____ |
| C. A comprehensive safety manual, operation/maintenance and DVD manual shall be supplied with each unit. | _____ | _____ |
| D. A factory trained person shall be made available for initial start-up and training in the operation of the melter. | _____ | _____ |
| E. Temperature indicating devices shall have intervals no greater than 1°F and shall be calibrated as required to assure accuracy. | _____ | _____ |
| F. The melter shall have continuous sealant agitation and a mixing system to provide uniform viscosity and temperature of material being applied. | _____ | _____ |
| 2. REQUIRED SAFETY FEATURES | | |
| A. The unit shall have safety shut-off on the loading door that automatically stops the agitator when the lid is opened. When equipped with a conveyor loading option the safety shut-off will lock out the conveyor operation during loading. | _____ | _____ |
| B. The electric applicator wand shall be equipped with an automatic shut-off feature that will stop the rotation of the sealant pump, sealant flow, and all line pressure when the handle is released or dropped. | _____ | _____ |
| Other: _____ | _____ | _____ |

| <u>Comply</u> | <u>Does Not Comply</u> |
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3. TOWING FRAME AND JACK

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| <p>A. This unit shall be trailer mounted. The longitudinal side frames and tongue members of the trailer shall be of one continuous piece construction composed of hot rolled steel channel having the minimum dimensions of 5 inches (12.7cm) depth, .325 inch (.825 cm) web thickness with 1.885 inch (4.789 cm) flange width.</p> | _____ | _____ |
| <p>B. The configuration of the channels shall be cold formed with the flanges on the outside resulting in a one-piece frame member with no cross welding of or on the flanges to avoid any possibility of flange stress cracking.</p> | _____ | _____ |
| <p>C. The tongue shall be equipped with an appropriate pintle hitch. It shall be adjustable in height above ground level from a minimum of 14 inches (35.6 cm), to a maximum of 32 inches (81.4 cm), permitting practically level towing with a wide range of vehicles. The towing hitch shall be bolted to the hitch plate for easy height adjustment and/or conversion to other type hitches.</p> | _____ | _____ |
| <p>D. A screw post tongue jack shall be furnished. It shall be a heavy-duty type with a load capacity of 5,000 pounds (2,268 kg) and it shall be side mounted and swing away for positive road clearance while under tow.</p> | _____ | _____ |
| <p>Other: _____ _____</p> | _____ | _____ |

4. TRAILER RUNNING GEAR

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| <p>A. The unit shall be equipped with dual independent rubber torsional suspension each having a safe load capacity of 6,000 pounds (2,721 kg), electric brakes, drop center disc wheels and ST235/80 R16 tubeless tires (Load Range E). Trailers with springs and shackles are unacceptable as they require more maintenance and reduce ground clearance.</p> | _____ | _____ |
| <p>B. The melter shall have dual LED taillights, stoplights, turn signals. The lighting shall be ICC approved. A license plate holder shall be attached to the driver's side taillight.</p> | _____ | _____ |
| <p>C. All melter fluid tanks shall be positioned no lower than the deck level and be mounted on the top of the channel frame members to assure proper ground clearance. Units that have components that extend below the trailer frame are unacceptable.</p> | _____ | _____ |
| <p>D. The unit shall also be equipped with two safety chains not less than 48 inches (121.9 cm) of .38 inch (.97 cm) coil proof chain, attached to the tongue with a drilled type clevis pin on the end attached to the frame and screw type clevis pin on the opposite end.</p> | _____ | _____ |
| <p>E. Total shipping weight is approximately 6,700 pounds (3,039 kg). Gross vehicle weight shall be 11,260 pounds (5,107.5 kg).</p> | _____ | _____ |
| <p>Other: _____ _____</p> | _____ | _____ |

| <u>Comply</u> | <u>Does Not Comply</u> |
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5. HEATING TANK

- A. The material tank shall be cylindrical with a minimum of 64.25 inches (163.19 cm) in diameter by 28.75 inches (73.03 cm) deep having a capacity of 396 gallons (1500 l) at ambient temperature. Oval or square sided tanks are unacceptable as they allow for uneven agitation resulting in a non-homogenous sealant and uneven heating of sealant.
- B. The tank will have a rear discharge to the pump and rear outlet. A double boiler type jacket with internal oil column shall create a reservoir that shall hold a minimum of 43.0 gallons (162.72 l) of heat transfer oil at 70°F (21°C). (Note: At 500°F (260°C) the heating oil will expand approximately 18%).
- C. The jacket shall wrap around 100% of the outside area of the circular material tank and bottom and allow for complete circulation of the heated transfer oil.
- D. The heat transfer oil tank design shall provide a center tower of a minimum 18 inches (7.08 cm) in height to provide efficient melting and uniform product heating. At no point in the tank shall there be a distance of greater than 27.8 inches (70.6 cm) from a heat surface.
- E. The tank and jacket shall be made of not less than 3/16 inch (.94 cm) rolled sheet steel.
- F. There shall be a plug to allow the entire heat transfer oil system to be drained.
- G. The heat transfer oil shall be of ISO grade 68.
- H. The efficiency rating shall be a minimum of 96% as determined by the ratio of the material tank surface area to the HTO tank surface area. Units with an efficiency ratio of less than 96% are unacceptable.

Other: _____

6. EXPANSION TANK

- A. A vented expansion tank for heat transfer oil. Overflow down tubes are unacceptable.

Other: _____

| <u>Comply</u> | <u>Does Not Comply</u> |
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7. HYDRAULIC SYSTEM

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| A. The hydraulic system shall incorporate a hydraulic pump to power the agitation and pumping systems. This pump shall be directly coupled to the engine. Belt driven hydraulics is unacceptable. | _____ | _____ |
| B. All valves shall be solenoid operated by a toggle switch and wand handle switch. | _____ | _____ |
| C. The controls will allow for bi-directional operation of the sealant pump and agitator. | _____ | _____ |
| D. Dual flow control valves will be mounted on the rear of the unit to allow the operator to adjust each pumps operational speed. | _____ | _____ |
| E. All controls shall be mounted at the curb side rear on the trailer for easy access by the operator. Hydraulic controls located at the side or forward portion of the trailer are unacceptable. | _____ | _____ |
| F. The minimum 30 gallon (136.37l) hydraulic tank will be equipped with an internal 10 micron full flow filter. The filter shall be equipped with a restriction indicator to indicate the need for service. A sight gauge level indicator equipped with a thermometer to measure oil temperature will be mounted on the tank and located where it is easily viewed. | _____ | _____ |
| G. The unit shall have a self-contained air to oil hydraulic cooler with an electric fan to maintain proper hydraulic oil temperatures. | _____ | _____ |
| Other: _____ _____ | _____ | _____ |

8. TANK INSULATION

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| A. The heating tank shall be insulated with a minimum of 1 1/2-inch (3.81 cm) thick high temperature ceramic insulation and covered by a 22 gauge steel outer wrapper. Fiberglass and rock wool insulation are unacceptable due to their moisture retention properties resulting in a significant loss in insulating value over an eighteen-month period. | _____ | _____ |
| Other: _____ _____ | _____ | _____ |

| <u>Comply</u> | <u>Does Not Comply</u> |
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9. LOADING HATCHES

- A. The low profile angled lid opening for loading shall be required at the top of the material tank and shall be located on the curbside of the machine for operator safety. A second low profile opening shall be required on the driver side and be easily adaptable for an addition of a retrofit power loading conveyor with anti-splash tower.
- B. The loading height shall not be less than 56 inches (142.24 cm) for operator safety. Loading Heights below 50 inches (127 cm) may expose the operator to splash hazards and fume exposure when loading and are unacceptable.
- C. The curb side opening shall have a minimum area of 384 square inches (2,477.4 sq. cm), approximately 16 inches (40.6 cm) by 24 inches (60.9 cm). The driver side opening shall have a minimum area of 252 square inches (1,625 square cm), approximately 14 inches (35.56 cm) by 18 inches (45.72 square cm) and shall be hinged to allow placement of a block of sealant onto the lid and closure of lid for easy, anti-splash loading.
- D. The loading door will allow the operation of the equipment, including sealant loading, from curbside. Loading systems that require the operator to step onto the melter are unacceptable.
- E. The loading door will have an insulated handle for opening and closing while the unit is hot.

Other: _____

10. HEATING SYSTEM

- A. The heat transfer oil is heated by one 329,430 BTU high efficiency forced air diesel fired burner directly at the bottom of the heat transfer oil tank.
- B. The burner shall fire into an easy access removable burner combustion box. The box will be insulated by a high temperature flexible insulation that is resistant to damage from the vibration and over road travel. Rigid insulation is unacceptable.
- C. The burner and combustion box shall be positioned offset from the center of the machine towards the passenger side frame rail. To allow safe and easy access for maintenance and repair, no components shall be positioned between the passenger side frame rail and the burner/combustion box.
- D. The total area of the heat transfer oil tank exposed to the burner shall be a minimum of 9,921 square inches (64,000 square cm). The material tank shall have a minimum of 9,448 square inches (60,954 square cm) of contact with the transfer oil. This provides for a melt rate of 3,168 pounds (1,437 kg) per hour.

| | <u>Comply</u> | <u>Does Not Comply</u> |
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| E. The burner shall be lit by a constant duty high voltage transformer powering an electric spark igniter. This igniter shall work in conjunction with a sensor that detects a lack of burn or ignition and shuts down the fuel supply. | _____ | _____ |
| F. The burner shall be controlled by a thermostat control located on the rear curbside of the machine and shall have a toggle switch shut off for operator safety. | _____ | _____ |
| Other: _____ _____ | _____ | _____ |

11. INTEGRATED CONTROL SYSTEM

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| A. The control box shall provide a fully integrated control system for the engine, heating system, agitation system and application system. | _____ | _____ |
| B. The melter applicator shall have a thermostatic control device that will automatically regulate each the hot oil, material, and dual hose temperatures. | _____ | _____ |
| C. The control shall have digital readouts for temperatures of hot oil, material, and both heated hoses. | _____ | _____ |
| D. The thermostat shall control burner ignition for a temperature range from a low of 200° F (93.3° C) up to a high of 425° F (218.3° C) for a wide variety of sealants. | _____ | _____ |
| E. All controls shall be contained in two weatherproof control boxes and the main control box is located at the rear passenger side of the machine. The secondary control panel for the driver's side hose and pump is located at the rear driver's side of the machine. The main control box shall also contain the engine operation and any gauges. Any operational controls located at the side or forward portion of the trailer are unacceptable. | _____ | _____ |
| F. The controls will automatically turn power on to the agitation system when the material reaches 275°F (135°C). | _____ | _____ |
| G. The controls will automatically start the hose heating system when the material temperature reaches 275°F (135°C). | _____ | _____ |
| H. The controls will automatically activate the application system when the material temperature reaches 325°F (162.8°C). | _____ | _____ |
| I. The controls will lock out operation of the agitation system, hose heating system, and application system when the material temperature is below the minimum operation temperature for operator safety and to prevent damage to the operational components. | _____ | _____ |
| J. The burner has an audible 105db alarm that will sound in the event the burner goes into lockout mode. There is a reset switch to reset the burner if it does go into lockout mode. | _____ | _____ |

| | <u>Comply</u> | <u>Does Not Comply</u> |
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| K. The control system will run the engine at “warm up” RPM for 30 to 45 seconds before it automatically adjusts to a standard engine idle RPM. When the sealant temperature reaches 275°F (135°C) the engine will automatically idle up to the operational RPM. | _____ | _____ |
| Other: _____ _____ | _____ | _____ |
| 12. <u>DRIVE AND DRIVE CONTROLS</u> | | |
| A. The driving force to the agitator and material pump shall be hydraulic motors driven by a hydraulic pump. | _____ | _____ |
| B. The drive controls governing the rotational speed of the material pump shall be controlled by adjustable hydraulic valves. | _____ | _____ |
| C. The material pump will have infinite speed control and is electrically actuated by a toggle switch on the control panel or a switch on the hand wand. | _____ | _____ |
| Other: _____ _____ | _____ | _____ |
| 13. <u>AGITATION</u> | | |
| A. The sealant material shall be mixed by a hydraulically driven, full sweep vertical agitator with two opposing horizontal paddles and vertical risers attached to the ends shall mix the sealant material at an ASTM specified tip speed of 250 ft. /min. Variable speed agitation is unacceptable. | _____ | _____ |
| B. The agitator drive shaft shall stand vertically attached to a hydraulic motor on the top surface of the tank. | _____ | _____ |
| C. The surface area of the agitator paddles shall be a minimum of 613 square inches (3,955 square cm). Surface areas of less than 600 square inches (3,871 square cm) are unacceptable. | _____ | _____ |
| D. The agitation system shall be direct driven by a hydraulic motor. | _____ | _____ |
| E. The agitator shall rotate in either direction. | _____ | _____ |
| F. For additional safety the agitator will shut off automatically when either loading hatch is opened. | _____ | _____ |
| Other: _____ _____ | _____ | _____ |

| <u>Comply</u> | <u>Does Not Comply</u> |
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14. BI-DIRECTIONAL VARIABLE SPEED PUMPING UNIT

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| A. The material pumps shall be a 2 inch (5.1 cm) positive displacement helical gear pump rated at 20 GPM. | _____ | _____ |
| B. Each pump shall be hot oil jacketed for fast heating and piped in series with the heat transfer oil circulation pump. | _____ | _____ |
| C. Applicator, Recirculation, and Tank valves are heated by an enclosed insulated chamber. | _____ | _____ |
| D. Heat flow to this chamber shall be controlled with a slide gate that will separate this chamber from the tank air jacket. | _____ | _____ |
| E. The insulated heating chamber shall have insulated doors hinged and notched for sealant hose access. | _____ | _____ |
| F. The heating chamber shall have a removable rear panel for easy access to the plumbing. | _____ | _____ |
| G. The heating chamber shall provide storage for sealant hose. | _____ | _____ |
| H. Pumping of material is controlled by a switch on the hand wand and output is controlled hydraulically. | _____ | _____ |
| I. Sealant pump operation shall be on demand. The pump rotation shall stop when sealant application wand trigger is not activated. Units that divert sealant flow without stopping the pump rotation are not ON DEMAND and are unacceptable. | _____ | _____ |
| J. No recirculation back into the tank shall be needed to operate the unit. The unit will allow recirculation back to the tank through the applicator wand at the operator's discretion. | _____ | _____ |
| K. The pump shall be capable of delivering sealant at a rate that exceeds the melt rate of the unit. | _____ | _____ |
| Other: _____ _____ | _____ | _____ |

15. SEALANT HOSE AND APPLICATOR WAND

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| A. Unit shall be capable of using both heated and non-heated hose and wand applicator. | _____ | _____ |
| B. The hoses are supported by 7ft. 2 in. booms (2.18m), which swivels side to side on dual pillow block bearings. The hose carriage shall pivot and have 7ft. (2.13m) of horizontal linear movement on roller bearing wheels for further operator comfort. | _____ | _____ |
| C. There shall be a minimum of 6ft. 6in. (1.98m) clearance under boom. Fixed carriage hose booms are unacceptable as they do not allow for easy maneuverability. | _____ | _____ |

| <u>Comply</u> | <u>Does Not Comply</u> |
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Heated Hose and Wand

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| 1. Both the hose and wand are heated by low voltage electric current and are temperature regulated. Due to weight and safety considerations, an oil-jacketed hose is unacceptable. | _____ | _____ |
| 2. Both the hose and wand will be serviceable (designed to be factory rebuilt). The manufacture must have an established re-build program to service these components. | _____ | _____ |
| 3. The hose shall be specifically manufactured for handling liquid asphalt products up to 400° F (204.4° C) at 500 psi (34.47 bar) working pressure. | _____ | _____ |
| 4. Hose and wand shall not be less than 19 feet (5.8 m) in length. The hose and wand shall have a working radius of 16' 6" from the center of the machine. | _____ | _____ |
| 5. For maximum operator safety it shall be made of 3/4 inch (1.91 cm) inside diameter PTFE Teflon® inner core and reinforced with a stainless steel outer braid. This braid serves a dual purpose; it provides a protective covering for the inner core and allows the hose to carry pressure. It shall also be insulated and have a cover to prevent damage to the hose or allow hot material from leaking out. Further, it shall have an abrasive sleeve to protect the operator from heat. | _____ | _____ |
| 6. The total weight of the hose shall not exceed 19 pounds (8.61 kg). | _____ | _____ |
| 7. The hose and wand shall be heated with a minimum of three electrical wires with terminal ends. The wires will be capable of heating the hose to 400°F (204°C) in less than 45 minutes and have variable temperature control capability. | _____ | _____ |
| 8. The hand wand shall be constructed of steel with sufficient strength to withstand normal day-to-day operation. Material flow is activated by a trigger switch. For greater operator mobility, the connection between the wand and hose shall be through a 360° swivel that is integral to the braided hose. | _____ | _____ |
| 9. The applicator wand shall have a self-closing silicone valve at the delivery point of the sealant delivery. This valve will automatically close when sealant application pressure stops and shall not require the operator to manually close any valves. | _____ | _____ |
| Other: _____ _____ | _____ | _____ |

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| <u>Comply</u> | <u>Does Not Comply</u> |
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Non-Heated Hose and Wand Options

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| 1. The hose shall be specifically manufactured for handling liquid asphalt products up to 400°F (204.4°C) at 350 psi (24.13 bar) working pressure. | _____ | _____ |
| 2. Hose and wand shall not be less than 23 feet (7.01 m) in length. The hose and wand shall have a working radius of 16 feet 6 inches from the center of the machine. | | |
| 3. A digital readout displays the temperature of material being pumped through the hose. | _____ | _____ |
| 4. The hand wand shall be constructed of steel with sufficient strength to withstand normal day to day operation. For greater operator mobility, the connection between the wand and hose shall be through a 360° swivel. | _____ | _____ |
| 5. Material flow is activated by a toggle switch in the control box and is controlled by a ball valve on the wand and recirculation valve. | _____ | _____ |
| 6. For maximum operator safety it shall be made of 1 inch (2.54cm) inside diameter insulated, rubber coated, steel braid reinforced and neoprene lined. | _____ | _____ |
| Other: _____ _____ | _____ | _____ |

16. ENGINE

The unit shall be equipped with a diesel engine with the following specifications:

- Electric Start
- Four Cylinder 48.3 HP (36kw) @ 2400 RPM, Tier 4 Final Emissions
- 3.78" (96 mm) Stroke
- 134.3 Cu. In, (2.2l) Displacement
- Full Flow Oil Filter
- 3.35" (85 mm) Bore
- 17.6 to 1 Compression Ratio
- Water Cooled
- High Water Temperature Shut Down
- Low Oil Pressure Shutdown

The engine speed adjusts automatically, and is preset in the engine controls for optimal machine performance.

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| Other: _____ _____ | _____ | _____ |
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| <u>Comply</u> | <u>Does Not Comply</u> |
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17. FUEL CAPACITY

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| A. The melter shall have a 30 gallon (113.56 l) diesel fuel tank for operation of the entire unit. | _____ | _____ |
| B. The unit will be capable of operating for a minimum of 12 hours on one tank of fuel. | _____ | _____ |
| C. The tank shall be equipped with a full length sight gauge for fuel level indication protected in a steel cover. | _____ | _____ |
| Other: _____ _____ | _____ | _____ |

18. PAINT

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| A. All painted surfaces shall be coated with DuPont two part epoxy paint applied by DuPont certified painters. | _____ | _____ |
| Other: _____ _____ | _____ | _____ |

19. TRAINING

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| A. An authorized, factory representative will be made available for a full day of training at a facility designated by the bidding agency. | _____ | _____ |
| B. At this training session a complete operational, mechanical and safety overview will occur. | _____ | _____ |
| C. Both safety and operational manuals will be viewed and discussed with all concerned personnel. | _____ | _____ |
| D. Additionally, the representative will be available at that time for "on the job" safety and field training. | _____ | _____ |
| Other _____ _____ | _____ | _____ |

20. SAFETY AND TRAINING MANUALS

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| A. A written Safety Manual will be provided to the bidding agency. | _____ | _____ |
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21. PARTS

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| A. Bidders must show proof that a large stock of parts for the model of equipment upon which he is bidding is maintained at his facility. | _____ | _____ |
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| <u>Comply</u> | <u>Does Not Comply</u> |
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22. AWARD

- A. Equipment is for use by the Highway Department and must meet the requirements of that agency as interpreted by the Highway Commissioner.
- B. Prior to award the Purchasing Agency may require a visit to the supplier's facility to assure supplier has plant capacity to manufacturer and deliver equipment on time as required.
- C. If it is determined that the supplier cannot supply as requested, this is just cause for cancellation.

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| _____ | _____ |
| _____ | _____ |

23. WARRANTY

- A. The manufacturer shall warranty the equipment for one year or longer as otherwise noted in the manufacturer's standard warranty policy.

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| _____ | _____ |
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24. QUALIFICATIONS OF BIDDER

- A. No bid will be considered unless the bidder can meet the following conditions:
- B. Bidder must have a parts/service location and keeps a sufficient stock of parts on hand at all times.
- C. The equipment offered is the stock model chassis that meets the requirements of the specifications without material changes or modifications.
- D. The model is regularly advertised and sold by the manufacturer.
- E. The bidder has been engaged in the sale and support of this make and model of equipment for at least twenty-four months.

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| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

OPTIONS REQUIRED (X if to be included)

(Customer to insert quantity for each option required)

- 3 inch (7.6cm) Pintle Hitch
- 18" (45.7 cm) Hitch Extension
- 28" (71.1 cm) Hitch Extension
- 39" (99.1 cm) Hitch Extension
- Dripless Sealant Tip Adapter
- 3 inch (7.6cm) Swivel Applicator Disk
- 4 inch (25.8cm) Swivel Applicator Disk
- 1/2" Round Sealing Tip
- Heavy Duty Metal Handle V-shaped Squeegee (Qty. _____)
- Wooden Handle V-shaped Squeegee (Qty. _____)
- 1/2 inch Round Sealing Tip
- Extra Electric Hose
- Non-Heated Hose and Wand
- Extra Hydraulic Filter
- Lockable Battery Cover
- Lockable Engine Cover
- Fire Extinguisher Mounted on the Trailer Frame
- Spare Tire with Storage Mount
- Toolbox
- Mast Mounted Strobe Light, Class II
- Mast Mounted Strobe Light, Class I/CA Title 13
- 18ft. Electric Hose Option
- Auto Loader
- Overnight Heater
- Custom Paint
- 60 Gallon Fuel Tank

APPROVED EQUAL

The approved make and model for this specification is a Crafcro EZ 1500 Double Pumper. Bidders offering to supply equipment other than the approved make and model must supply a detailed description of the equipment being offered. Bidders offering to supply equipment other than the approved make and model shall also supply a list of references who have successfully heated, mixed and applied Crafcro sealants through the equipment being offered. For purposes of comparison a separate list of all deviations to this specification must be attached to your bid document.

Prior to bid award an on-site demonstration of the equipment offered may be requested. All bidders offering other than the approved model listed will be required to provide an on-site demonstration at the agency's location within 7 days of request to verify that their unit complies with all specification requirements before their bid will be considered. Failure to carry out the provisions noted herein is deemed sufficient reason to reject the bidder's proposal.