

Manufacturers standard combination crack sealing and mastic mixer unit must be able to melt crack sealing material for crack sealing application and mix separately aggregate with crack sealing material to create mastic material for an on demand application. This unit must be capable of starting at ambient temperature and bringing all materials (aggregate and sealant) to a mixable temperature in less than 1 hour and capable of placement on the roadway and be a continuous on demand system. Designed to be towed at 65mph maximum for on-road/off road use. Unit shall be ordered utilizing the following equipment code.

Note: "Refer to PCID 1075 for Delivery, and Warranty Requirements". Warranty Shall be per Section E.1.A.

009950- CIMLINE C-1 ON DEMAND DUAL UNIT SEALER AND MASTIC APPLICATOR

The following additional items shall be supplied:

Accepted

<p>1. PAINT: Color for the unit on the Bid Item Sheet. Bidder must provide Unit Pricing for the Unit with the Standard Factory Paint Color on the Bid Item Sheet. Bidder must also provide Unit Pricing for the Unit with one of the following paint option(s) Factory: Having unit bid painted PennDOT yellow. Reference DUPONT F9885 shade only. Unit shall be painted PennDOT yellow in lieu of the OEM's original color. Using the same process as with OEM paint. Aftermarket: Having unit bid painted PennDOT yellow. Reference DUPONT F9885 shade only. All surfaces shall be properly cleaned and prepared prior to paint. Paint shall be the same quality as factory paint. To include all areas of the machine including interior.</p>	
<p>Comments</p>	
<p>2. FLOCS: Quick change oil change system per EQN-351A</p>	
<p>Comments</p>	
<p>3. Electrical lighting: Lighting shall be per Federal and State regulations for stop, turn, and tail lights. All lights shall be LED. Seven wire trailer cord and connector set to extend to front of hitch inside protective conduit as per ATA wiring sequence. Cable shall extend 8ft beyond pintle eye. REF:EQN80-B. There shall be a Cole Hersee Part # 11750 or equal store-a-way trailer connector plug holder located in the tongue area. REF:EQN-84</p>	
<p>Comments</p>	
<p>4. Surge brake System: per EQN-84 including break-away safety mechanism. *Note - Trailers that are to be equipped with surge brakes shall rely on a mechanical braking system, the use of electrical connections such as solenoids, dump valves or manual systems will not be accepted. The axle brake shoes must be "FREE BACKING" type.</p>	
<p>Comments</p>	
<p>5. Trailer: Ref: EQN-84 and EQN-80B. Unit shall have wheels properly sized within all requirements and ranges to meet the specification. Wheels shall be a hub piloted, one piece design. Note: UTG / Donut type wheels (type used in the mobile home industry) are not acceptable.</p>	
<p>Comments</p>	
<p>6. Hitch height & Safety Chains: Adjustable trailer tongue to accommodate variable truck hitch height levels along with 2 rust proof safety chains that must be at least 4ft long and must extend 3 feet beyond pintle eye. REF:EQN-84</p>	
<p>Comments</p>	
<p>7. Grab Handles and Platforms: There shall be grab handles on each side of the unit as a safety measure for the operator, with anti-slip paint. All grab handles and step platforms shall have antiskid paint. Non-skid tape is not acceptable</p>	
<p>Comments</p>	
<p>8. Fire Protection: Fire extinguisher, rechargeable, with vehicle mount. Mounted for easy and quick access, towards rear of machine. 20 lb. 10A:40B:C with weather-proof cover.</p>	
<p>Comments</p>	
<p>9. Tool box: Manufacturer standard</p>	
<p>Comments</p>	
<p>10. Heated Hose: Electric Heated Material Hose.</p>	
<p>Comments</p>	
<p>11. Wheel Chocks: 1 Pair of Wheel chocks and holder REF:EQN-82A</p>	
<p>Comments</p>	
<p>12. Hour Meter: Which operates only when the engine runs.</p>	
<p>Comments</p>	
<p>13. Safety: All moving parts (e.g. belts, gears, etc.) and hot parts shall be provided with protective guards. Exhaust pipe with muffler shall not be a safety hazard and shall not interfere with operation of the engine. There shall be "HOT" markings on both sides of the kettle (marking imprinted "HOT" and 3257) requirements of 49CFR. Manufacturer shall install all safety decals, warning labels, guards and devices available as standard equipment on all equipment offered.</p>	

<p>14. Shield: Engine shall be protected from inclement weather. Cover shall be removable to allow engine access. Top shall be solid metal and sides shall be perforated as necessary to allow for proper cooling.</p> <p>Noise Level: Not more than 84dBA measured at 4 foot distance from the center of rear bumper and in a horizontal plane 4 feet above the ground with burners in operational condition.</p>	
Comments	
<p>15. Vandalism package: All fill caps such as for fuel, engine oil, hydraulic oil, radiator etc. shall be lockable or located inside lockable housing cabinet (s). With padlock (s) and key (all locks keyed alike).</p>	
Comments	
<p>16. Material Tank: Diesel heated material tank must be of a double boiler design and have a minimum capacity of 150gal of working crack sealing material.</p>	
Comments	
<p>17. Aggregate Handling System: The unit must be able to convey uncoated washed aggregate from the stone hopper through the heat chamber and allow the aggregate to be delivered at a minimum temp of 180 degrees Fahrenheit to the Mastic Mixing Chamber.</p>	
Comments	
<p>18. Mastic Mixing & Delivery Chute: The mastic mixing chamber shall be able to produce various forms and flows with the designed consistency dependent upon ambient conditions. Unit shall also have the ability to control the amount of heated liquid sealant that will be mixed with the aggregate and delivered to the heated material chute. The chute shall have the ability to reach the shoulder or center lane of the road with out moving the unit out of its lane</p>	
Comments	
<p>19. Manuals: Operators, Maintenance, and Repair Manuals shall be supplied. There shall be an all weather holder attached to the unit to hold the manuals. A CD can be supplied in lieu of paper maintenance manuals.</p>	
Comments	
<p>20. Training: There shall be 7Hrs. Start up and & Familiarization Training for operators and mechanics. This shall be completed at the final county location.</p>	
Comments	
<p>21. Warranty: The warranty start up date shall be defined as the date of transfer from the PennDOT Fleet Management Division to the designated county location. This will be considered the date of delivery to the county and NOT the date of delivery by the successful bidder to the department. The PennDOT Fleet Management will supply the actual start-up date, equipment number, and serial number of the machine, via email, to the successful bidder. It is the responsibility of the successful bidder to ensure that the equipment manufacturer recognizes and applies the Department's actual warranty start-up date in their database.</p>	
Comments	
<p>22. Hatch splash prevention box: A low profile top loading splash prevention box shall be provided at the top of the material tank and located on the curbside of the machine for operator safety. The splash prevention box shall be mounted to the existing melter opening by either stitch weld or bolted in place and will automatically close once the sealant blocks are dropped in.</p>	
Comments	
<p>23. AIR COMPRESSOR: (option)</p> <p>If a unit is ordered with an air compressor it shall be the largest available by the manufacturer but a 70 CFM will be the minimum size compressor that will be accepted and must be included in the option price.</p> <p>Compressor shall be required to maintain a minimum of 100 PSI at tip of nozzle while in use. At no time while in use shall the PSI drop below 100 PSI.</p> <p>The trailer shall be of additional sufficient length and strength to support the tongue weight of the air compressor, drive, and reel assembly.</p> <p>Additional weight shall be compensated for throughout the entire trailer assembly.</p> <p>There shall be an additional hydraulic pump (one for the melter and one for the compressor). There shall be 50 feet of 0.3750 inch I.D., minimum 300 PSI, oil resistant, static non-conductive air hose. The hose shall be placed on a reel assembly (Reelcraft Model 7800 OMS "stainless steel" (Tel. #219-248-8188, or equal), mounted on the roadside. There shall be a trigger pistol grip design to allow for infinite control of output pressure and automatic shut-off when released or if dropped.</p>	
Comments	

24. Splash prevention box and Conveyor: (option) If a unit is ordered with a conveyor the following must be included in the option price.

Conveyor: There shall be a powered conveyor that runs from the loading hatch over the front of the kettle trailer to the towing vehicle. The conveyor shall have weatherproof operating switches protected by circuit breakers at the vehicle end and at ground level on the curbside of the melter.

The conveyor or loading end controls shall have a momentary "ON" switch, a "FORWARD AND REVERSE" switch and a "EMERGENCY STOP" button. The "ON" switch must be held in the on position to power the conveyor. The "EMERGENCY STOP" button is provided to disable the conveyor. The FORWARD AND REVERSE switch must be switched to which direction you want the conveyor to move then you must hold in the momentary "ON" switch to activate the conveyor.

The curbside (Ground Level) controls shall have a momentary "ON" switch and a "EMERGENCY STOP". The "ON" button is used for dispensing the sealant blocks after the conveyor is fully loaded.

The conveyor is hydraulically driven and controlled by a four-way valve that is activated by an electric solenoid.

Splash prevention box: The box will be equipped with a loading tower that will automatically close as the sealant blocks are dropped from the conveyor. The inner doors shall pivot inside the loading tower and swing closed after the sealant blocks pass. A lid shall be provided on the loading box to be closed when the conveyor and melter are not in use. A handle is attached to the side of the lid for safety. The operator shall be able to open the lid on the splash prevention box without climbing on the melter. A splash prevention box shall have an adjustable mounting plate for the conveyor support. The belt shall be white friction surface butyl material that can withstand temperatures up to 500 degrees F. The belt shall be able to hold weights up to 800 LB.

ONLY UNITS THAT HAVE BEEN EVALUATED AND PRE-APPROVED PRIOR TO BID ENDING DATE WILL BE CONSIDERED IN THIS BID. FOR FUTURE PRE- APPROVAL PLEASE CONTACT THE PENNDOT FLEET MANAGEMENT DIVISION SPECIFICATION UNIT AT 717-787-1567

11/27/2018 JAH

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