

KM 4000SXPX SPECIFICATION

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Technical Product Specifications

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**Specifications are subject to change without notice*



COMPLIANCE TO SPECIFICATIONS

The bidder shall indicate 100% compliance by checking "YES" or non-compliance by checking "NO" for each line item of specification. Any space left blank shall be considered non-compliant. Any deviation from the specification, or where submitted literature does not fully support the meeting of specifications, must be clearly cited in detail, in writing, by the bidder and submitted with the bid. NO verbal interpretations will be accepted! In addition NO deviations below "minimum" specifications as written will be accepted.

"BIDDING REQUIREMENTS SECTION"

| SECTION | SPECIFICATION DETAIL | COMPLY | | |
|--|----------------------|---|----|--|
| | | YES | NO | |
| SECTION 1 <u>GENERAL</u> | 1.1 | This specification is to describe the asphalt hotbox reclaimer unit designed to manage up to two (2) tons (4,000 lbs.) of plant asphalt road mix. | | |
| | 1.2 | The unit is designed as a skid mounted unit. | | |
| | 1.3 | The unit offers the user the ability to maintain hot mix asphalt or cold patch material at workable temperatures for up to forty eight (48) hours continuously. | | |
| | 1.4 | Unit also offers to the user the option to "reclaim" virgin hot mix asphalt from ambient storage temperature to usable hot mix form. | | |
| | 1.5 | The unit offers the ability to safely maintain temperatures that accommodate standard "cold patching" materials (requires low temperature thermostat option). | | |
| | 1.6 | The heating unit comes available as a thermostatically temperature controlled LPG fueled heating system. | | |
| | 1.7 | Operator must be able to maintain load temperature between 50-350 degrees Fahrenheit. | | |

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| SECTION 2 <u>PROPANE HEATING SYSTEM</u> | 2.1 | The heating source is 60,000 BTU liquid propane gas vapor burner. | | |
| | 2.2 | Temperature is thermostatically controlled. | | |
| | 2.3 | The thermostat allows the ability to control temperature settings from 175 to 350 degrees Fahrenheit (175° F to 350°F). | | |
| | 2.4 | Gas control valve power is supplied by a self-maintaining 750 MV power pile generator. | | |
| | 2.5 | An electric 9V igniter provides manual pilot ignition. | | |
| | 2.6 | The main gas control valve provides the one hundred percent (100%) safety shut-off feature in the event of pilot failure. | | |
| | 2.7 | The LPG burner is mounted under the storage bin. | | |
| | 2.8 | An access control panel allows for the installation, removal, and maintenance of burner. | | |
| | 2.9 | High temperature insulation, reflective aluminum, and stainless steel deflect heat to provide optimum efficiency. | | |
| | 2.10 | A combination of convection heating and conduction heating will provide the energy required to heat the material enclosed in the storage bin. | | |
| | 2.11 | Vapor withdrawal from two (2) 30 lb. LPG cylinders located the front area of the unit with supply fuel to the burner system. | | |
| | 2.12 | Approved fuel supply hoses, 36" in length will be supplied with the unit. | | |
| | 2.13 | Automatic changeover regulator will be supplied and attached to the unit. | | |



| SECTION | SPECIFICATION DETAIL | | COMPLY | |
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| | | | YES | NO |
| SECTION 3 <u>ASPHALT STORAGE BIN</u> | 3.1 | The asphalt storage bin will hold a capacity of up to two (2) tons of asphalt hot mix. | | |
| | 3.2 | The storage bin is constructed of solid welded pieces throughout. | | |
| | 3.3 | The floor will be constructed of one solid piece of braced fourteen (14) gauge steel. | | |
| | 3.4 | The interior sides, front and rear walls will be constructed of braced fourteen (14) gauge steel, each being a solid piece. | | |
| | 3.5 | All seams are a continuous weld. | | |
| | 3.6 | Interior welded ribs are at strategic points to offer increased structural integrity. | | |
| | 3.7 | Stainless steel panels fabricated of fourteen (14) gauge stainless steel and high temperature insulation are attached at strategic points to offer protection from overheating areas of the enclosure. | | |
| | 3.8 | The rear panel of the bin provides a single shovel port attached to the outer skin of the unit by welded fourteen (14) gauge metal. | | |
| | 3.9 | The tapered walls of the storage bins offers gravity feed of the material towards the shovel port. | | |
| | 3.10 | Attached to the storage bin is the outer shell of the unit. | | |
| | 3.11 | The outer shell will be fabricated of braced sixteen (16) gauge steel. | | |
| | 3.12 | The bottom floor of the unit supports the storage bin with braced channel steel. | | |
| | 3.13 | A third wall of reflective aluminum is attached and located between the storage bin and the outer shell. | | |
| | 3.14 | A 2,300-degree Fahrenheit (2,300°F) refractory ceramic insulation located between the reflective wall and bottom floor insulated the bottom of the unit. | | |
| | 3.15 | High temperature fiber glass insulation not less than two inches (2") in thickness insulates the exterior walls of the unit. | | |
| | 3.16 | All pieces of the outer shell will be of continuous weld construction. | | |

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| SECTION 4 <u>FILLING DOORS</u> | 4.1 | A single shock assisted lid is designed to accommodate easy loading of asphalt. | | |
| | 4.2 | The cover/lid will be constructed of sixteen (16) gauge insulated with not less than three inches (3") of high temperature insulation to offer optimum efficiency. | | |
| | 4.3 | The shock assisted handle allows for easy, one-man lid opening and closing. | | |
| | 4.4 | The handle allows the user to open and close the lid from a ground standing position. | | |
| | 4.5 | A safety prop rod is inserted into position and does not allow the lid to close without the user removing the prop rod. | | |
| | 4.6 | Additional grab handles are located on the opposite sides of the lid. | | |
| | 4.7 | When in the open position, the top cover creates a funnel designed large enough to maneuver the unit under standard asphalt filling stations (batch or silo type plants) for filling. | | |



| SECTION | | SPECIFICATION DETAIL | COMPLY | |
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| | | | YES | NO |
| SECTION 4 CONTINUED. <u>FILLING DOOR</u> <u>CONTINUED</u> | 4.12 | The handle linkage shall be bolted to the box side and not require re-positioning the handle to operate or the use of body weight to counteract the weight of the door when opening or closing. | | |
| | 4.13 | Throughout the opening and closing of the doors the operator shall not be required to step away from the unit to operate the door handles. | | |
| | 4.14 | When in the open position, the door design shall serve to protect the vehicle cab, propane cylinders, and truck storage area from falling material during the loading process. | | |
| | 4.15 | The design of the loading doors must open from front to back protecting the components and enabling easy loading with frontend loaders from the side of units. No exception to this critical safety consideration shall be permitted. | | |

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| SECTION 5 <u>SHOVELING</u> <u>PORTS</u> | 5.1 | As single shoveling port at the rear of the unit is provided for the unloading of material. | | |
| | 5.2 | The shovel port is large enough to accommodate standard use asphalt shovels. | | |
| | 5.3 | The door will be fabricated of welded sixteen (16) gauge steel with high temperature insulation enclosed inside the doors. | | |
| | 5.4 | The door travel in a sliding track which is equipped with a safety latch feature to keep shovel doors open during use. | | |
| | 5.5 | The shovel port is a minimum of 16" high by 16" wide. | | |

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| SECTION 6 <u>PAINT</u> | 6.1 | All pieces exposed shall be properly coated. | | |
| | 6.2 | All raw materials used in the manufacturing process will be new and unused and properly coated with an industrial equipment primer and industrial equipment paint coating. | | |
| | 6.3 | KM International chrome yellow will be the primary coating color. | | |

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| SECTION 7 <u>WARRANTY</u> | 7.1 | The manufacturer will, for a period of twelve (12) months from the invoice date, repair or replace any serviceable or consumable parts determined by a KM International representative to be defective. | | |
| | 7.2 | All components, with the exception of the previously listed twelve (12) month warrantied parts, will be covered under this warranty for a period of twenty-four (24) months. | | |
| | 7.3 | This warranty applies only when the claim is approved and repaired by a KM International representative. | | |
| | 7.4 | This warranty applies only when the equipment is used for its intended purpose and properly maintained. | | |



| SECTION | SPECIFICATION DETAIL | COMPLY | |
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| | | YES | NO |
| <u>OPTION 1: LOW TEMPERATURE THERMOSTAT</u> | | | |
| <u>OPTION 1</u> <u>LOW</u> <u>TEMPERATURE</u> <u>THERMOSTAT</u> | <u>1.1</u> The heating system controls will be fitted with an adjustable low range thermostat (55°F to 175°F) and a toggle switch to allow operation in either high or low temperature range. | | |