



The Choice of Asphalt Professionals Worldwide

6561 Bernie Kohler Drive • North Branch, MI 48461

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KM 8000SXPX SPECIFICATION

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Technical Product Specifications

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“BIDDING REQUIRMENTS 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 four (2) tons (8,000 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 seventy two (72) 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.		

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.		



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SECTION		SPECIFICATION DETAIL	COMPLY	
			YES	NO
SECTION 3 <u>ASPHALT STORAGE BIN</u>	3.1	The asphalt storage bin will hold a capacity of four (4) tons of material.		
	3.2	The storage bin measures 64" x 72" x 56" from base of bin to peak.		
	3.3	The design offers gravity feed of the material towards the shovel ports.		
	3.4	The asphalt bin is constructed of four 12 gauge welded steel walls.		
	3.5	The floor will be constructed of one solid piece of 12 gauge steel.		
	3.6	A third wall of reflective aluminum is attached and located between the storage bin and the outer shell.		
	3.7	2,300 degree Fahrenheit refractory ceramic insulation located between the reflective wall and bottom floor insulates the bottom of the unit.		
	3.8	High temperature fiber glass insulation not less than two inches (2") in thickness insulates the exterior walls of the unit.		
	3.9	The outer shell will be fabricated of reinforced 16 gauge steel.		
	3.10	All seams will be a continuous weld.		
	3.11	Interior gussets and supports welded at strategic points provide additional fabricating rigidity.		
	3.12	The shovel deck platform is solid reinforced 11 gauge steel.		
	3.13	Asphalt chambers must not have any vents or heat tubes running from front to back. As these tubes contribute to asphalt damaging or bridging in the chamber. Vent openings in the asphalt chamber will quickly fill up with asphalt and limit the transfer of heat likewise these units are unacceptable.		
	3.14	Asphalt storage bin shall be constructed in a triangular polyhedron dual chamber manner to facilitate heat energy to the center of the load.		

SECTION 4 <u>FILLING DOORS</u>	4.1	Two manual peaked top doors for the lid. Each door is constructed of sixteen (16) gauge steel insulated with not less than three inches (3") of high temperature insulation to offer optimum efficiency.		
	4.2	The two doors measure 32"x72" and are 3.25" thick.		
	4.3	Two cantilevered handles allow easy, one man lid opening and closing.		
	4.4	The handles will be fabricated of square tubing and allow the user to open and close the lid from a ground standing position.		
	4.5	The handles all for the user to operate close to the unit and out of danger of road traffic.		
	4.6	A replaceable gas spring will be affixed to each door to reduce opening force as well as hold the door in the open position for filling.		
	4.7	When open the doors open a minimum of 98" from peak to peak.		
	4.8	The maximum opening force required will be no more than 15 lbs.		
	4.9	Additional grab handles are located on the opposite sides of the lid.		
	4.10	When in the open position, the lids creates a funnel designed large enough to easily maneuver the unit under standard asphalt stations (batch or silo type plants) for filling and open to protect the unit.		
	4.11	Asphalt loading lids must be a continuous type hinge. Pillow block bearings hinges are not acceptable due to their failure rate.		
	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.		



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	4.13	When opening the doors the operator shall be positioned immediately and safely alongside the unit and in-line with the structural fenders, standing either in front of or behind them depending on which door is being actuated. 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 the doors are opened, the door design shall serve to protect the burner, controls, and other related components and exhaust stack located in the front 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 trailer and enabling easy loading with frontend loaders from the side of units. No exception to this critical safety consideration shall be permitted.		

SECTION 5 <u>SHOVELING PORTS</u>	5.1	Two (2) shoveling ports are located at the rear of the unit to provide for unloading material. Enabling multiple operators to perform simultaneously.		
	5.2	The shovel ports must be large enough to accommodate standard use asphalt shovels.		
	5.3	The doors will be fabricated of welded sixteen (16) gauge steel with a 1" minimum high temperature insulation enclosed inside the doors.		
	5.4	The doors travel in a sliding track which is equipped with a safety latch feature to keep shovel doors open during use.		
	5.5	Each shovel port is to be a minimum of 16" high by 20" wide.		

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.		

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.		



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SECTION	SPECIFICATION DETAIL	COMPLY	
		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.		