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It is the purpose of these specifications to describe a crack cleaning machine capable of thoroughly cleaning pavement cracks/joints suitable for proper crack sealing techniques to a minimum depth of one inch by means of vacuum (hand work may be needed to remove vegetation). Unit shall be a self-contained design and shall include a means of attaching an air hose to the system so hard to clean cracks can be air routed and vacuum cleaned in a single operation. This unit shall be the manufacturer's current production model.

	<u>Comply</u>	<u>Does Not Comply</u>
<b>1. CONSTRUCTION</b>		
A. The machine shall be a complete, self-contained unit of heavy-duty construction.	_____	_____
B. The unit shall be mounted on a rigid frame with suitable dimensions and mounting brackets for easy mounting to a standard flatbed truck or trailer.	_____	_____
C. All moving parts shall have safety guards and written warnings.	_____	_____
<b>2. ENGINE</b>		
A. The vacuum system shall be powered by a Kohler Command Pro gasoline engine capable of producing 27 HP (20.1 kW) at 3600 RPM.	_____	_____
B. A tachometer/hour meter shall be included.	_____	_____
C. The engine shall have a full flow oil filter and oil cooler.	_____	_____
D. A dual element air cleaner shall be installed on the engine.	_____	_____
E. A dirty air cleaner indicator will be installed between the two air filtration systems and the engine.	_____	_____
<b>3. DEBRIS HOLDING TANK</b>		
A. Capacity shall be 100 gallons with a latched and hinged dump door of not less than 16 inches (40.6 cm) in diameter.	_____	_____
B. The holding tank shall be designed to mechanically unload using a 12 volt electric/hydraulic power pack.	_____	_____
<b>4. BLOWER and SILENCER</b>		
A. The blower shall be a positive displacement rotary air blower capable of generating air flow of 437 CFM @ 3600 RPM and 16" HG.	_____	_____
B. Blower shall be belt driven.	_____	_____

	<u>Comply</u>	<u>Does Not Comply</u>
C. The silencer shall be multi-chambered and equipped with a high frequency noise absorption device.	_____	_____
<b>5. <u>AIR FILTRATION SYSTEM</u></b>		
A. The unit shall be equipped with a 3 stage filtering system consisting of a cyclonic separator, main cartridge filter, and a HEPA rated after filter.	_____	_____
B. The cyclonic separator shall be made of steel with a barrel and cone shape design, 3 inch (7.62 cm) side inlet, 3-1/2 inch (8.89 cm) top exhaust outlet and a 4 inch (10.16 cm) bottom opening for large particles to drop out of the air flow.	_____	_____
C. The main filter cartridge shall be a pleated, spun bond polyester filter and shall be washable and replaceable. Filter shall have 19,600 square inches of filtering surface and have a minimum MERV 14 efficiency rating.	_____	_____
D. The HEPA panel filter shall be 10 inch (25.4 cm) long by 18 inch (45.7 cm) width by 5.91 inch (15 cm) depth and rated for 500 cfm.	_____	_____
<b>6. <u>CYCLONE COLLECTION PAIL</u></b>		
A. The cyclone collection pail shall hold 975 cubic inch (15977 cubic cm) of particles before needing to be emptied.	_____	_____
B. The cyclone collection pail shall include a quick release system to easily remove, empty and re-install the cyclone collection pail.	_____	_____
C. The cyclone collection pail shall include a handle for transporting the pail from the machine to a waste receptacle.	_____	_____
D. The cyclone collection pail shall be designed so that a plastic liner can be used for the removal of collected debris.	_____	_____
<b>7. <u>HOSE AND BOOM</u></b>		
A. The unit shall be equipped with a minimum 3 inch (7.62 cm) diameter suction hose attached directly to the vacuum wand.	_____	_____
B. The hose shall include a "cab over" section of ridged 3 inch (7.62 cm) tubing to facilitate easy use from the front, sides or the rear of the unit.	_____	_____
C. The boom shall rotate 360 degrees.	_____	_____
D. The boom shall include a 72 inch (183 cm) adjustable extension tube for extended support of the vacuum hose.	_____	_____
<b>8. <u>VACUUM WAND</u></b>		
A. The suction wand shall be made of steel and ergonomically designed for operator comfort.	_____	_____

	<u>Comply</u>	<u>Does Not Comply</u>
B. The vacuum head shall be 9.85 inches (25 cm) wide by 7.48 inches (19 cm) long.	_____	_____
C. The suction wand shall consist of 4 swivel caster wheels for ease of maneuverability. The wheels shall be height adjustable.	_____	_____
D. The handle of the wand shall be jointed for immediate adjustment of operator height and changes in pavement surfaces and crack structure.	_____	_____
E. The wand shall include three built-in high velocity air nozzles for air routing of cracks.	_____	_____
F. The wand shall have replaceable seal brushes. The brushes shall be made of abrasion resistant nylon and galvanized steel backing.	_____	_____

**9. FUEL SYSTEM**

A. The unit shall be equipped with a 20 gallon (75.7 L) minimum size gasoline tank equipped with fuel supply shutoff valves.	_____	_____
B. The tank shall be manufactured from unbreakable, shatterproof, nonmetallic, materials.	_____	_____
C. The tank shall be safely strapped to the frame by means of a formed steel strap.	_____	_____

**10. BATTERY**

A. The unit shall be equipped with a 12-volt battery capable of starting the engine and operating the hydraulic power pack unit. The battery shall have a minimum rating of 580 cold cranking amps.	_____	_____
B. The battery shall be housed in an enclosed box that is weather resistant and heavy duty.	_____	_____

**11. SIZE AND WEIGHT SPECIFICATIONS**

A. The shipping weight is approximately 2060 lbs. (934 kg). The overall length is 9 feet 8.23 inches (295 cm), width is 5 feet 11.64 inches (182 cm), and height is 6 feet 7.64 inches (202 cm).	_____	_____
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**12. TRAINING**

A. An authorized, factory-trained representative will be made available for a full day of "on the job" training at a facility designated by the bidding agency.	_____	_____
B. At this training session a complete operational, mechanical and safety overview will occur. The CD manual and startup video will be viewed and discussed with all concerned personnel.	_____	_____

<u>Comply</u>	<u>Does Not Comply</u>
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**13. MANUALS**

A. An instruction manual containing warranty information, safety instructions, as well as an operation guide shall be provided.

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B. The instruction manual shall also contain a complete parts list with detailed service and maintenance instructions.

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**14. WARRANTY**

A. The manufacturer shall warranty the equipment for no less than two years.

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B. A written manufacturer's standard warranty policy shall be provided in the Operator's Manual.

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**15. QUALIFICATIONS OF BIDDERS**

A. The bidder of this equipment must meet the requirements of the specifications without material changes or modifications to the equipment.

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**OPTIONS REQUIRED (X if to be included)**

(Customer to insert quantity for each option required)

- \_\_\_\_\_ 60113 – Extra Main Cartridge Filter
- \_\_\_\_\_ 60992N – Extra HEPA Filter
- \_\_\_\_\_ 60957N – Extra 5 Gal Pail Liner (25 Count)
- \_\_\_\_\_ 60350 – Dual Axle Trailer with Storage Deck
- \_\_\_\_\_ Various Safety and Work Light kits. See brochure for more information.

Options for Trailer:

- \_\_\_\_\_ 20018 - 2 5/16 inch Ball Hitch
- \_\_\_\_\_ 20016 - 2 1/2 inch Pintle Hitch
- \_\_\_\_\_ 20014 - 3 inch Pintle Hitch
- \_\_\_\_\_ 20120 - Hitch Extension, 18"
- \_\_\_\_\_ 20140 - Hitch Extension, 28"
- \_\_\_\_\_ 20150 - Hitch Extension, 39"
- \_\_\_\_\_ 24227 - Truck Connector, 7 Pin Round RV Connector, Blade Terminals (Comes Standard)
- \_\_\_\_\_ 24183 - Truck Connector, 7 Pin Round Connector, Round Terminals
- \_\_\_\_\_ 24074 - Truck Connector, 6 Pin Round Connector
- \_\_\_\_\_ 23950N - Truck Connector, 5 Pin Flat Connector
- \_\_\_\_\_ 23119 – Cab Brake Controller
- \_\_\_\_\_ 23120 – Breakaway Battery w/ Charger
- \_\_\_\_\_ 26119 – Safety Hook w/ Latch (2 Req'd)
- \_\_\_\_\_ 26058 – 10# Fire Extinguisher
- \_\_\_\_\_ 26059 – Mounting Bracket for 10# Fire Extinguisher
- \_\_\_\_\_ 43520 – Spare Tire Kit