



## SPECIFICATIONS FOR 25 HP PAVEMENT CUTTER WITH CLUTCH

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### GENERAL

The pavement cutter should be of the manufacturer's current production. This unit shall be capable of accurately following random cracks in asphalt or concrete surfaces. A factory-trained person shall be available for the initial start-up and operator training of the unit. A video manual as well as a comprehensive safety manual will be supplied with each unit. A factory-trained person shall be made available for initial start-up and training in the operation of the melter.

### FRAME AND ENGINE

The engine shall be mounted on a hinged saddle to permit belt tension. The cutter shall be powered by a Kohler Command series engine with hour meter. This V twin engine shall be capable of producing 25 HP at 3600 RPM. The engine shall have a full flow oil filter and oil cooler. A dual element air cleaner shall be installed on the engine. Additionally, a Donaldson air cleaner with precleaner will be installed. A dirty air cleaner indicator will be installed between the two air filtration systems. There shall be two axles attached on either side of the frame assembly in line with the cutterhead. Attached to the axles shall be two pneumatic tires with tapered bearings.

### CUTTER HEAD

The cutter head shall be mounted on a drive shaft having a minimum diameter of 1 $\frac{3}{4}$ " and is fastened with a minimum of two 1/2" hex head cap screws in conjunction with a minimum 3/8" x 4" key. The cutter head drive shaft shall be mounted by means of two self-aligning ball bearings. The cutterhead shall accommodate a minimum of six - eight tooth carbide tipped cutters. These cutters shall be equally spaced on the cutterhead and revolve on the hardened pins of a length that permits the use of spacers. By rearranging the spacers, the cut width can be varied from 1/2" to 2" wide. The cutter head shall be housed in a steel housing capable of containing the cutter assembly and covering 80% of the total surface area.

The driving force from the engine to the cutter head shall be transmitted through a clutch and twin grooved sheaves and twin matched "V" belts

covered with a removable metal guard ventilated to prevent upward suction of pavement debris. The entire assembly of engine, cutter head, cutter head housing and all other part assemblies shall be mounted on a heavy steel frame, electric welded through 100% of the metal thickness at each joint for maximum strength and rigidity.

The cutter head and its protective housing shall be able to raise and lower a minimum of four inches by means of an electric lineal actuator operated by a fingertip control switch mounted on the operator handle. The cutter head shall be in a central location to the frame.

### CLUTCH

An electric clutch shall be mounted on the engine in such a manner as to stop the cutterhead on demand without stopping the engine. The clutch switch shall be located on the handle in order to facilitate easy access by the operator.

### SAFETY SHIELDS

There shall be safety chain guards and flexible rubber guards surrounding the front and sides of the cutterhead housing in order to protect the surrounding areas from debris.

### DRAG PLATE

A pavement cutter shall be equipped with a replaceable drag plate mounted at the rear of the cutterhead housing in order to facilitate stopping of the unit as well as to control the speed during operation.

### BATTERY

The unit shall be equipped with a 12-volt battery capable of starting the engine and operating the clutch and actuator. The battery shall also be housed in a fully enclosed box that is weather resistant and heavy duty.

### FUEL TANK

The unit shall be equipped with a six-gallon minimum size gasoline tank. The tank shall be safely strapped to the frame. The tank shall also be

manufactured from unbreakable, shatterproof, nonmetallic materials.

### **CUTTERS**

The unit shall be supplied with pins, spacers and a complete set of carbide cutters. A depth control gauge shall be supplied on the unit allowing for a maximum depth of cut of 2".

### **MISCELLANEOUS**

Estimated production rate of 500LM or 1500 LF per hour. An instruction manual containing warranty information, safety instructions, as well as an operation guide shall be provided. The instruction manual shall also contain a complete parts list with detailed service and maintenance instructions.

### **OPTIONS (X if to be included plus quantity)**

- \_\_\_\_ Steel Cutters 4 3/4"
- \_\_\_\_ Carbide Cutters 4 3/4"
- \_\_\_\_ Extended Life 4 3/4" Cutters
- \_\_\_\_ Spacers
- \_\_\_\_ Extended Life Pins

### **TRAINING**

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

### **SAFETY AND TRAINING MANUALS**

A written Safety Manual will be provided to the bidding agency.

### **PARTS**

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.

### **AWARD**

Equipment is for use by the Highway Department and must meet the requirements of that agency as interpreted by the Highway Commissioner. Prior to award the Purchasing Agency may require a

visit to the supplier's facility to assure supplier has plant capacity to manufacture and deliver equipment on time as required. If it is determined that the supplier cannot supply as requested, this is just cause for cancellation.

### **WARRANTY**

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

### **QUALIFICATIONS OF BIDDERS**

No bid will be considered unless the bidder can meet the following conditions:

1. That it has in operation a parts/service location and keeps a sufficient stock of parts on hand at all times.
2. That it is bidding upon the stock model chassis that meets the requirements of the specifications without material changes or modifications and which is regularly advertised and sold as having a capacity of not less than called for herein, that it has been engaged in the manufacture of equipment of the type bid upon for at least forty-eight months.

### **APPROVED EQUAL**

These specifications are not intended to be restricted, but are meant to describe the kind and size of unit desired to be purchased in detail. If a bidder is basing his proposal on other equipment than what is specified in these bid documents and wishes the equipment he proposed to be considered as an "approved equal" he will submit on a separate sheet, attached to the Technical Specifications contained herein, an item by item description of that which he proposes. For purposes of comparison, include only those items on each sheet as given in these technical specifications. Such bidders shall also include, but not as a substitute for the above, any manufacturer's literature or specifications. In addition, if the bidder takes exception to any item, he will note the item and describe in detail the exception and how his proposal is an "approved equal". Failure to carry out the provisions noted herein may be deemed sufficient reason to reject the bidder's proposal.