

**BID SPECIFICATIONS  
FOR  
ONE MAN POTHOLE PATCHER – OPTION B  
DURA PATCHER/DURAMAXX  
\$156,250 (including options)**

**GENERAL**

These specifications shall be construed as the minimum acceptable standards for a single-operator, truck-mounted, automatic pothole patcher with a remote-controlled boom operated from the driver's seat of the truck chassis. Should the manufacturer's current published data or specifications exceed these standards, the manufacturer's standards shall be considered minimum and shall be furnished. All integral parts not specifically mentioned in the scope of these specifications that are necessary to provide a complete working unit shall be furnished. Additionally, the machine for bid offered shall include all standard manufacturer's equipment. The one man pothole patcher must be a new current production model and must meet all current EPA standards.

The use of specific names and numbers in the specification is not intended to restrict the bidder or any seller or manufacturer, but is intended solely for the purpose of indicating the type, size and quality of equipment considered best adapted to the uses of counties participating in this joint bid.

**BID SUBMITTAL FORM**

Each bidder must submit his or her bid on the Bid Submittal Form included in the Invitation to Bid package. All written warranties to be submitted shall be attached to the Bid Submittal Form.

**BID PRICE**

The bid price shall include all destination charges, delivery charges, title fees, rebates, and all other applicable costs and refunds.

**MANUALS**

Each unit will be provided with one (1) copy of the operator's manuals, one (1) copy of the current parts manuals and (1) copy of the repair manual. Units will not be accepted for delivery until the manuals as outlined above are received by the purchaser.

**WARRANTY**

Units purchased under this specification shall be warranted against defects in materials and workmanship for a period of not less than one year from date of delivery to customer. Items thought to be defective will be returned to factory prepaid to be repaired or replaced.

**MINIMUM REQUIREMENTS**

The truck-mounted machine shall be designed and constructed to repair larger cracks, potholes, and broad areas and completely controlled by one person from the driver's position of the truck cab with no support equipment necessary. The machine shall be capable of blowing water, dust or debris from the pothole or surface to be repaired. The machine must be capable of patching while moving forward or reverse, must be capable of patching at temperatures as low as 5 degrees F, and must be able to perform all patching functions with transmission engaged and in motion. The machine must be capable of performing each of the following functions:

- clean cracks and surfaces
- spray liquid asphalt emulsion over area to provide a tack coat

- apply emulsion-coated aggregate to provide a high-density patch
- cover repaired area with dry aggregate

### **DIMENSIONS**

Width and height to meet State and Federal requirements without requiring oversize permits.

### **AUXILIARY ENGINE**

4LC1 4-cylinder, 4-cycle, water-cooled diesel engine rated at 41 BHP at 3,000 RPM per SAE standards. Engine is capable of operating single hydraulic pump. Engine must be completely self-contained with starter and all necessary components to control engine functions available from within the confines of the truck chassis. Controls must include ignition start, stop, preheat, and variable-speed throttle functions. Engine and hydraulic pump must be enclosed within the patcher body and must have a large door for easy service accessibility. Engine compartment must have sound-dampening liner. Unit must be capable of patching while the truck chassis is moving, without utilizing a PTO system. Engine protection features include the following: high coolant temperature, low oil and low coolant level.

**NOTE: Comparable unit must have an auxiliary power unit; PTO-driven is not acceptable.**

### **HYDRAULICS**

Pump must have an available flow of 25 GPM @ 2100 RPM. This single pump must operate all hydraulic systems on patcher body. Hydraulic valves and reservoir must be enclosed within the patcher body for protection from damage and exposure to elements, and must be accessible through a door for easy serviceability. Must contain a replaceable filter and strainer.

### **AIR DELIVERY**

Blower must be capable of producing 435 CFM .

### **AIR FILTER**

Two-stage, dry-air cleaner with replaceable filter element

### **AGGREGATE DELIVERY HOSE**

2" inside diameter, rubber-lined, abrasion resistant, non-kinking hose outfitted with spiral wire reinforcement. In order to minimize wear points, at no point will there be bends in the delivery hose with a radius of less than 18".

### **AGGREGATE HOPPER BODY**

Hopper-type with adjustable control gate; six (6) cubic yard capacity. Patching can be performed with hopper cover open to allow for quick visual aggregate level inspection. Aggregate fill opening is 9' 10" by 6' 10" to allow for easy loading with front-end loader. Aggregate cover is to be opened manually without the use of any hydraulic components.

### **AGGREGATE FEEDER**

Cab-mounted hydraulic speed control with digital RPM readout. Conveyor motor has 2 speeds controlled by a toggle switch in the control panel. Abrasion resistant staggered vane feeder wheel with sealed bearings. Vane feeder has replaceable rubber inserts on vanes and replaceable long wearing liner. Hydraulic motor drive through 6-to-1 gear-driven reducers with speed maintaining control loop.

**NOTE: Substitution of an air-pressurized hopper to deliver aggregate is acceptable.**

### **FRONT BOOM ASSEMBLY**

Boom must include a stow bracket for support during traveling to eliminate bushing fatigue at all pivots. Boom supported with stabilizer to minimize side-to-side shaking during patching operations. Aggregate hose is of a one-piece design from chassis bumper to the mixing nozzle, with no joints. The boom assembly supports the aggregate delivery hose, the insulated heated emulsion hose, and hot water lines to carry engine radiator water to the end of the boom for preheating of emulsion. When extended to maximum length, boom assembly and piston must be strong and rigid enough to withstand the shaking associated with the movement at the nozzle. Manufacturer must guarantee all parts of this assembly against failure for a period of 250 full working days.

### **EMULSIFIED ASPHALT DELIVERY**

Air pressurized delivery at 70 PSI. Petroleum-resistant delivery hose with push-on fittings. 250-gallon insulated asphalt storage tank. The storage tank must be equipped with a thermostatically controlled heating system.

Cab-mounted asphalt delivery control valve. Fill opening: 12-inch diameter.

### **DELIVERY NOZZLE**

Capable of delivering pressurized air for cleaning, asphalt for tacking, and asphalt coated aggregate and dry aggregate to the area to be repaired.

### **PRESSURIZED TANKS**

All pressurized tanks on carrier meet or exceed FMVSS certification. All pressurized tanks on body have ASME certification for 150 lbs. bursting pressure.

### **FLUSH SYSTEM**

Flush system to be equipped with a 3-way valve for flushing and delivery functions. Flush tank is to be air pressurized and 30-gallon capacity.

### **UNIFORM COMPONENT ENCLOSURE**

Patch unit body is to be mounted on channel frame, which allows the unit to be mounted as one integral unit to the truck chassis, minimizing the drilling of holes in the truck frame. Patch unit can be mounted on standard truck frame of at least 33,000 GVWR.

### **CONTROL PANEL**

Cab floor-mounted, box-type panel with adjustable driver armrest. Joystick boom control; extend/retract and boom left/right. Boom control, up/down switch. Blower speed switch. Aggregate feed switch. Emulsion, on/off switch. Percentage of emulsion ration switch. Emulsion percentage analog gauge. Air blower digital read-out. Aggregate feed digital read-out.

### **WARNING LIGHTS**

30" x 60", two-way lighted arrow board with cab controls. Cab-mounted rotating beacon.

### **FINISHING**

The entire unit shall be primer painted and finished with a high grade of enamel paint to match manufacturer standard color.

### **OPTIONS**

Bid must include the cost for each of the following options, itemized separately on the bid:

Crack Sealing Wand and associated hardware installed and ready to use.

**NOTE:** Award will be made on the basis of the total cost of the machine with all options included. However, a county may, at its discretion, deduct one or more of the above-referenced options from the machine, and in such event, the cost of the options as stated on the bid shall be deducted from the total cost of the machine. There shall be no other deductions and no additions made to the machine by the purchasing county or by the vendor.

# OPTION COST SHEET FOR ONE MAN POTHOLE PATCHER – OPTION B

Option

Option Price

Crack Sealing Wand

\$1,200.00

**NOTE:** Award will be made on the basis of the total cost of the machine with all options included. However, a county may, at its discretion, deduct one or more of the above-referenced options from the machine, and in such event, the cost of the option as stated on the bid shall be deducted from the total cost of the machine. There shall be no other deductions and no additions made to the machine by the purchasing county or by the vendor.

# COUNTY JOINT BID PROGRAM

## PURCHASE PROCEDURES

Effective January 1, 2008

All purchases by counties pursuant to the County Joint Bid Program shall be made by (1) mailing or faxing the appropriate Purchase Order to the vendor who has been awarded the contract for the item to be ordered **and** (2) faxing a copy of the Purchase Order to the Association of County Commissions of Alabama (ACCA) office at 334-263-7678. Purchase Order Forms and all necessary information regarding the vendor and items available can be obtained at the ACCA website ([www.acca-online.org](http://www.acca-online.org)).

Each purchase order shall be signed by the person authorized by the county to sign and shall include the County Joint Bid Program Item Number. A copy of the form submitted shall be retained by the county.

The county shall deal directly with the company representative for the vendor in making purchases under this program. The vendor shall complete all orders in compliance with its agreement under the program, and shall deal directly with each county in processing and completing their orders and in complying with service and warranty requirements. Road sign vendors should keep in mind that they are required to deliver all items to the location identified by the county ordering them within thirty (30) calendar days from the date of order, and the cost of any items not delivered within this time period will be reduced in price by 10%.

It is important to remember that under *Code of Alabama 1975, § 41-16-50(b)*, all purchases made pursuant to this program shall be subject to the terms and conditions of Alabama's Competitive Bid Law. Therefore, counties are only authorized to purchase the specific items awarded under the program according to the bid specifications and must comply with these procedures in placing all orders.

There can be no deletions or additions to items purchased under this program, except as specifically provided for in the bid specifications. Optional equipment authorized under the bid specifications on certain heavy equipment orders may be deleted by the county at the time of purchase, and in that event, the cost of that item as provided by the vendor shall be deducted from the total cost of the item.

**COUNTY JOINT BID PROGRAM**  
**PURCHASE ORDER FOR ONE MAN POTHOLE PATCHER – OPTION B**  
*This form must be mailed or faxed to the Vendor with  
Copy faxed to the ACCA Office at 334-263-7678*

Date of Order: \_\_\_\_\_ County Purchase Order No. \_\_\_\_\_

County: \_\_\_\_\_ County Contact Person: \_\_\_\_\_

County Address: \_\_\_\_\_  
\_\_\_\_\_

County Phone Number: \_\_\_\_\_

County Fax Number: \_\_\_\_\_

E-mail Address: \_\_\_\_\_

Equipment Model or Item Name and Number: Dura Patcher/Dura Maxx

Number of items ordered: \_\_\_\_\_ Price per item: \_\_\_\_\_

Vendor: Duraco, Inc. Company Contact: John Peet

Vendor address: P.O. Box 6127  
Jackson, MS 39288

Deliver to the Attention of: \_\_\_\_\_

Delivery Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Requested delivery date: \_\_\_\_\_

Name of person making purchase request: \_\_\_\_\_

Title: \_\_\_\_\_

Authorized County Signature: \_\_\_\_\_

Initial confirming form sent to vendor: \_\_\_\_\_

Initial confirming form sent to ACCA: \_\_\_\_\_