

**BID SUBMITTAL FORM**  
**Alabama County Joint Bid Program**  
**BID ITEM – ONE-MAN POTHOLE PATCHER -**  
**OPTION A**

Company Name: TRACTOR AND EQUIPMENT Co. Inc.

Address: P.O. Box 12326  
BIRMINGHAM AL 35212

Bid Submitted by: AUTREY McMILLAN JR  
(Name of company representative)

Title: V.P. E-mail address: AMcMILLAN@TEC1943.com

Phone: 205-591-2131 Fax: 205-591-8321

By submitting this bid, we agree:

- |   | Initials  |
|---|-----------|
| The equipment model number identified below meets the bid specs for this bid item   | <u>AM</u> |
| That the bid price will be honored for all counties for the period from January 1, 2023 to December 31, 2023.               | <u>AM</u> |
| The equipment will be delivered at the bid price to all counties participating in the joint bid program                     | <u>AM</u> |
| The company representative listed above will be the contact person for purchasing this bid item under the joint bid program | <u>AM</u> |
| The bid is accompanied by a current catalog or model specification document for the model number identified below           | <u>AM</u> |
| The bid is accompanied by a copy of the manufacturer's standard warranty as required in the bid specifications              | <u>AM</u> |
| The bid includes the e-verify documentation required by Alabama law   | <u>AM</u> |
| If awarded the bid, a performance bond will be provided upon request  | <u>AM</u> |
| The bid documents include the <b>Manufacturer's Suggested Retail Price Sheet (MSRP) for the Standard Machine</b>            | <u>AM</u> |


Total Bid Price for Standard Machine: \$ 293,700<sup>00</sup>  
(Total Bid Price for Standard Machine Includes Freight Preparation, Delivery and Standard Warranty Costs) \*

Freight Preparation and Delivery: \$ 4800<sup>00</sup>  
(Included in Standard Machine Bid Price)

Manufacturer's Suggested Retail Price for Standard Machine: \$ 170,607 + CHASSIS COST

Equipment Model #: LEIBOY / ROSCO PA400

Description: ONE MAN POT HOLE PATCHER

Signature of company representative submitting bid: 

Title: V.P.

**\*NOTE:** Award will be made based on the total cost of the **Standard Machine**. The total cost of the standard machine is to include the freight preparation, delivery and standard warranty cost. Freight preparation, delivery will be excluded from the total bid price of the standard machine in determining the percentage discount for any available options.

## BID SUBMITTAL FORM: OPTION COST SHEET

By submitting this bid, we agree:

To offer any available options at the percent difference between the Manufacturer's Suggested Retail Price Sheet and the actual bid price on the Standard Machine\*

AM

The bid documents include the Manufacturer's Suggested Retail Price Sheet (MSRP) with any available Options for the Standard Machine

AM

Equipment Model #: LEEBOY / ROSCO RA 400

Description: ONE MAN POT HOLE PATCHER

Signature of company representative submitting bid: \_\_\_\_\_

Atty. M. M. M.  
V.P.

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

**\*NOTE:** The percent difference between the **Manufacturer's Suggested Retail Price Sheet (MSRP)** for the standard machine as specified by these **Bid Specifications** and the actual price bid by the vendor will be calculated to determine the percentage discount to be applied to any available options. The bid price of the freight preparation, delivery cost shall be excluded in determining the percentage discount to be applied to available options. Any individual county may choose to add any available option to the standard machine at the percentage discount at the time of purchase.

**BID SPECIFICATIONS  
FOR  
ONE-MAN POTHOLE PATCHER - OPTION A**

**GENERAL**

These specifications shall be construed as the minimum acceptable standards for a one-man operated asphalt patching device. 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 offered shall include all standard manufacturer's equipment. The one-man pothole patcher must be a new current production model and shall meet all EPA and other applicable standards at the time of manufacture.

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 and one (1) copy of the current parts manuals. 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 two years from date of delivery to customer. Items thought to be defective will be returned to factory prepaid to be repaired or replaced.

Yes  No   
Page # \_\_\_\_\_  
or  
Attachment

**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 must be capable of patching which moving forward or reverse, must be capable of patching at temperatures as low as 0 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

Yes  No   
Page # 2

-- spray liquid asphalt emulsion over area to provide a tack coat

Yes  No   
Page # 2

-- apply emulsion-coated aggregate to provide a high-density patch

Yes  No   
Page # 2

-- cover repaired area with dry aggregate

Yes  No   
Page # 2

**DIMENSIONS:**

Length: 28' minimum, with boom retracted and 38'5" boom extended.  
Width: 8' 6"  
Height: 10'  
Weight: 18,000 lbs. with standard chassis

Yes  No   
Page # 2

**CHASSIS: CAB-OVER Peterbuilt 220 or Equivalent**

Minimum Requirements:

GVWR: 33,000 lbs.  
Front Axle: 12,000 lbs.  
Rear Axle: 21,000 lbs. Springs-23,000lbs.  
Air Brakes: 20.8CFM @ 2,600 rpm  
Engine: 240hp @ 2,400 diesel, with 18.7 CFM Air compressor  
Wheelbase: 164"  
Cab-to-axle: 153"  
Overall Length: 38'5"ft.  
Turning Radius: 25'

Yes  No   
Page # 2

**Tires:** Front Single highway tread, Rear dual highway tread

Yes  No   
Page # 2

**Wheels:** Steel Disc Type 10 hole 22.5 x 8.25 inch offset 6.5 inch

Yes  No   
Page # 2

**Transmission:** Allison, 2500 RDS or Equivalent, 5 forward, 1 reverse

Yes  No   
Page # 2

**Misc. Items:** Back up lights, Cigar Lighter, Clearance, Identification, Position Lights, Day time running lights, Map light, turn signal/hazard, 12 volt power outlet air, Coolant, Fuel, Temperature Gauge, Speed-o-meter & Trip meter, Tachometer, and back up alarm.

Yes  No   
Page # 2

**AUXILIARY ENGINE:**

65hp @ 2600 rpm naturally aspirated 4 cylinder Kubota diesel, Tier 4 Final with in-cab auxiliary engine controls at operators station with tachometer, hour meter and warning system.

Yes  No   
Page # 2

**HYDRAULICS**

The unit shall be equipped with dual hydraulic pump with minimum of 28 GPM for Blower function, 9 GPM for all other functions driven from Auxiliary Engine. Unit shall have a minimum of 20 gallon hydraulic reservoir.

Yes  No   
Page #       

**AIR SYSTEM**

Should be hydraulically driven by truck PTO and capable of 850 CFM. Inlet air to blower must be filtered through a highly efficient industrial air cleaner, and equipped with a suitable silencing package to reduce blower noise.

Yes  No   
Page # 2

**AGGREGATE SYSTEM**

The low profile aggregate hopper shall hold a minimum of 5 cubic yards of aggregate, the hopper shall be rectangular with a cold weather heat kit, in-cab controlled vibration system, dual electric over hydraulic activated hopper lids with rear access open/close switch. Cab controlled, adjustable, feed slide gate meters aggregate flow. System will accept aggregates up to Ø3/4" (19 mm).

Plus system stored settings; rock flow, emulsion flow and air flow vacuum-operated rock transfer emulsion coating system. System utilizes non-mechanical or moving parts to move aggregate, ease of access to clean and service the slide gate and subsystems. Conveyors and/or paddle feeders are not acceptable.

Yes  No   
Page # 2

**LIQUID ASPHALT EMULSION TANK**

The unit shall be equipped with a 300 gallon insulated liquid asphalt emulsion tank. The tank is to be insulated with a minimum of 4 inches of insulation and completely covered by a weather tight skin. The tank shall be heated by two 2250 watt 120 volt thermostatically-controlled heater elements operating at 120 volts. An alternate heat source shall be provided to maintain heat on the work site, and shall be regulated automatically to prevent over or under heating of materials. The

alternative heat system should also heat all asphalt lines to prevent clogging during operation. The tank should be equipped with a minimum fill opening of 12 inches. A 5 inch dial thermometer, and an emulsion level indicator, visible from the operator's cab shall be attached to the emulsion tank.

Yes  No   
Page # 2

**ASPHALT EMULSION FEED AND FLUSH SYSTEM**

The asphalt system shall be air pressurized to deliver sufficient asphalt to completely cover aggregate at full feed capacity.

Yes  No   
Page # 2

The delivery system should be capable of maintaining 60 PSI throughout the petroleum resistant delivery hoses.

Yes  No   
Page # 2

The emulsion should be drawn off the bottom port of the tank to maintain good circulation over heat tube.

Yes  No   
Page # 2

The tank should be equipped with each access 3-way valve with flush and delivery positions at ground level.

Yes  No   
Page # 2

The flush system should have 30 gallon minimum capacity and should have provisions for storing used flushed materials.

Yes  No   
Page # 2

**OPERATOR CONTROLS AND FEATURES**

All operator controls shall be at easy access from the driver's position. DP 200 LCD display controlled from Plus 1 Can-Bus System in Cab monitors.

Yes  No   
Page # 2

The unit should be designed so all patching functions, cleaning of surfaces, tack coat, application of high-density patch and dust coating can easily be performed from the driver's positions.

Yes  No   
Page # 2

Driver's emulsion control valve must have easy on/off controls from operator's joystick.

Yes  No   
Page # 2

Joystick to control boom in/out, boom left/right, emulsion valve open/close, aggregate gate open/close. Boom auto stow and override.

Yes  No   
Page # 2

The unit shall be equipped with a 30" X 60" arrow board with cab controls for lane control.

Yes  No   
Page # 2

The unit shall be equipped with all standard clearance and warning lights.

Yes  No   
Page # FACTORY / STD

**JET FLUSH WATER SYSTEM**

The unit shall have a 30 gallon tank to maintain moisture level of aggregate for improved emulsion penetration. This system should also be capable of flushing entire aggregate feed system for cleaning purposes.

Yes  No   
Page # 2  
FACTORY / STD

**FINISHING**

The entire unit shall be primer painted and finished with a high grade of enamel paint to match truck chassis.

Yes  No   
Page # FACTORY / STD

Cab mounted display attached to a camera mounted on the rear of the unit so the operator can see behind the truck.

Yes  No   
Page # 2  
FACTORY / STD

MACHINE BROCHURE AND  
FULL SPECS ATTACHED



# INVITATION TO BID HEAVY EQUIPMENT

## NOTICE OF BID OPENING

**NOTICE IS HEREBY GIVEN** that the Association of County Commissions of Alabama, which administers the Alabama County Joint Bid Program on behalf of Alabama's county governing bodies, shall receive and open bids for the purchase of zero (0) or more items of heavy road equipment at its office located at 2 North Jackson Street, Montgomery, Alabama, at **10:00 a.m. on Friday, October 7, 2022**. Bid specifications are available at <http://www.alabamacounties.org/heavy-equipment/> for each of the following items:

Backhoes  
Tractors  
Track Mount Excavators  
Compact Track Mount Excavators  
Mini Track Excavator  
Wheeled Excavators  
Highway Speed Truck Excavators  
Motor Graders  
Heavy Duty Hydrostatic Bulldozers  
Mulching Dozer  
Wheel Loaders  
Heavy Duty Dump Chassis  
Lowboy Tractors  
Skid Steer Loader w/no Attachments  
Skid Steer Attachments

Ride-on Industrial Boom Mowers  
Asphalt Distributor Truck  
Chip Spreader  
Rubber Tire Roller  
7.5 Ton Single Drum Vibratory Roller  
One-man Pothole Patchers  
Trailer Mounted Patchers  
Trailer Mount Mastic Patcher/Crack Sealer  
Half Round End Dump Trailer  
Lowboy Trailers  
Road Wideners and Attachments  
16' Steel Dump Bodies (Automatic and Manual)

**Time is of the essence in submitting bids and only bids received in the Association office by 10:00 a.m. Central Time on Friday, October 7, 2022 will be opened and considered.** Bidders and any other interested individuals are invited to attend the bid opening.

## NOTICE OF BID OPENING PROCEDURES

All bids for **Heavy Equipment** will be opened and the name(s) of the bidders read aloud on the morning of the bid opening on Friday, **October 7, 2022 at 10:00 a.m.** at 2 North Jackson Street, Montgomery, AL. The specifics of each bid submitted will be compiled by the Association staff thereafter and will be available, **upon written or emailed request**, one week after the bid opening. Requests should be emailed to [jointbid@alabamacounties.org](mailto:jointbid@alabamacounties.org).

## THE INVITATION PACKAGE

The invitation package for each item to be bid includes: this invitation to bid, the written bid specifications for the particular item of heavy road equipment, and a Bid Submittal Form to be used in submitting a bid for that particular item. Bidders should verify that they have received all pages of the invitation package. If there are any omissions, the bidder should contact **Kenya Howard** in the Association office by mail, fax, or e-mail ([jointbid@alabamacounties.org](mailto:jointbid@alabamacounties.org)) to request missing pages. It is the responsibility of the bidder to make this request in sufficient time to prepare and submit the bid in time for the bid opening. Bidders should carefully read and comply with all parts of the invitation package, including all attachments and/or any addendum.

## **PREPARING AND SUBMITTING BIDS**

All bids must be typed or hand written in ink on the attached Bid Submittal Form. **The completed Bid Submittal Form shall be placed in front of and separated from all other documents included in the bid packet, such that it will be the first document viewed upon opening the bid packet.**

Bids submitted in pencil and bids not submitted on the Bid Submittal Form will **not** be considered. All bids shall include a current catalog or model specification document for the equipment model number being offered for consideration. Bids submitted without such documentation will **not** be considered. Only information contained on the attached Bid Submittal Form and in the model specification document will be considered in evaluating bids.

Each separate requirement in the bid specification includes a block for indicating whether or not the item bid meets the specification. The bidder shall indicate compliance with each requirement by checking "Yes" or "No" in the block to the right of each bid specification. In addition, the bidder shall indicate the page number in the supplied manufacturer's equipment literature on which compliance with the specification can be verified. Failure to complete this portion of the bid form may result in the subject bid not being considered.

Each bid for one of the heavy equipment items included in the bid package must be submitted on the Bid Submittal Form for that item and forwarded in a separate envelope with the bid item and item number clearly identified on the outside of the envelope. Envelopes containing a "no bid" shall also include the words "NO BID" on the outside of the envelope. Facsimiles and e-mails will not be accepted. Bids submitted by "Express/Overnight" services must be in a separate inner envelope or package sealed and identified as stated above. All bids must be received in the Association office prior to the bid opening. Bids received after the deadline will be returned unopened.

The County Joint Bid Program reserves the right to require a performance bond from successful bidders as permitted under Alabama law. However, **no bid bond is required for this bid offering.**

All bids should be mailed or hand-delivered to:

**ATTN: Joint Bid Program  
Association of County Commissions of Alabama  
2 North Jackson Street, FL 7, Montgomery, Alabama 36104 (Physical Address)  
P.O. Box 5040, Montgomery, Alabama 36103 (Mailing Address)**

## **BID SPECIFICATIONS**

Please note that each piece of heavy equipment available for bid may include several different sizes and categories of machines. You should read each set of specifications very carefully as the differences vary depending upon the piece and size of equipment.

The award will be based on the total cost of the **Standard Machine** bid by the lowest responsible bidder. Each Bid shall include a **Manufacturer's Suggested Retail Price Sheet (MSRP)** for each machine bid. The percent difference between the Manufacturer's Suggested Retail Price (MSRP) for the standard machine as specified by these bid specifications and the actual price bid by the vendor will be calculated and that percentage discount shall be applied to any options an individual county may choose to add to the machine.

Once the bids have been awarded, any county participant purchasing under this program may, at its discretion, add any of the vendor's available options at the same discount off the Manufacturer's Suggested Retail Price Sheet as was applied to the Standard Machine Price Bid.

Any use of specific names and/or model numbers in the attached specifications is not intended to restrict the bidder or any seller or manufacturer, but is included solely for the purpose of indicating the type, size, and quality of materials, product services, or equipment considered best adapted to the use of the counties participating in the joint bid program.

## **ACQUISITION AND FINANCING OPTIONS**

The awarded Vendor will provide the equipment, including any options required by the purchaser, at the awarded price as contracted through the Joint Bid Program. The purchaser may secure its own financing to acquire the equipment or execute any financial options available under Alabama law with the awarded Vendor in order to acquire the equipment.

## **BIDDER QUALIFICATIONS**

All bidders and all program participants must be in compliance with any applicable federal, state, county and municipal laws, regulations, resolutions and ordinances, including but not limited to, licensing, permitting, and taxation requirements. All bidders should be prepared to submit evidence or documentation as proof that they are properly licensed and permitted under any applicable laws upon request. Such evidence or documentation may be submitted with the bid. Additionally, all bidders shall provide proof that they are in compliance with the e-verify requirements of Alabama's Immigration Law (Ala. Code § 31-13-1 et seq., as amended by Act No. 2012-491).

## **BID AWARD**

The Houston County Commission will serve as the awarding authority for all bids and will award all contracts at a regular meeting of the Houston County Commission. Any and all bids submitted in compliance with this invitation to bid shall be considered, and award will be made to the lowest responsible bidder meeting bid specifications as determined by the awarding authority in compliance with Alabama law. All bids will be reviewed and evaluated by a committee created for that purpose, which committee will make comments and recommendations to the awarding authority regarding the award. All factors contained in each invitation package will be evaluated in determining the successful bidder, and any omissions of the stated requirements may be cause for rejection of the bid submitted. The awarding authority reserves the right to reject any and all bids, to waive any informality in bids, and to accept in whole or in part such bid or bids solely at its discretion.

The contract period will be one year with an option to renew for a second and third year under identical price, terms, and conditions upon the mutual consent of the vendor and the awarding authority. Any renewal contract shall be approved in writing by the vendor and the awarding authority no later than 90 days prior to the expiration of the existing contract.

### **CONTACT REGARDING BIDS AND INVITATION**

Contact initiated by a potential bidder with any county official, county employee, or member of the Association staff shall only be as specifically set out in this Invitation to Bid. Any questions related to the bid or the County Joint Bid Program shall be directed to Association staff in writing under the procedures set out in this Invitation to Bid. Additionally, a bidder may contact the Association in writing to request an appointment to review bid specifications following the bid opening. **However, there shall be no communication with any county official or county employee regarding this bid between the date of this invitation and the date of bid award.** Any contact other than as set out here shall be deemed as an attempt to unduly influence the bid award, and shall be grounds for rejection of the bid submitted by the bidder initiating such other contact.

Any questions or problems related to downloading or obtaining copies of this Invitation to Bid should be directed to **Kenya Howard** at [jointbid@alabamacounties.org](mailto:jointbid@alabamacounties.org) or **334-263-7594**.

Any other questions or requests for additional information regarding this invitation or the bid specifications shall be submitted **in writing** no later than five (5) days prior to bid opening to:

**ATTN: Patrick McDougald**  
**Association of County Commissions of Alabama**  
**P.O. Box 5040**  
**Montgomery, Alabama 36104**

**OR**

**Patrick McDougald**  
**E-mail: [barbeng@bellsouth.net](mailto:barbeng@bellsouth.net)**

# RA-400 Patcher

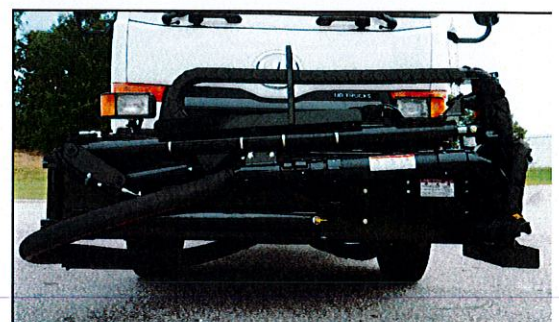
**Rosco**  
A **Lennox** Company



The ultimate output of the RA-400, which is capable of correcting over 200 road defects in a single day by a single individual, has been deployed by contractors looking to maximize productivity while finding a cost-effective patching solution. The driver operated joystick performs a four-step spray injection process typically in less than one minute per repair. Including one of the largest emulsion tanks available in the market, the RA-400 patching boom extends and retracts providing a wide patching range with minimal required maintenance.

## Performance Features:

- Front-Corner Mounted Boom for Greater Working Range
- VORTEC System (Vacuum Operated Rock Transfer Emulsion Control)
- 10' 3" x 7' Rectangular Aggregate Hopper
- 300 Gallon Liquid Asphalt Emulsion Tank
- Can-Bus Plus 1 In-Cab Control System
- One Person Operation, Easy-to-Use Joystick Controls
- Industry Leading Hydraulic "Patch on the Go" System
- Tier 4 Final 74 HP (55.2 kw) Kubota Diesel Auxiliary Engine
- 30" x 60" LED Rear-Mounted Arrow Board
- Optional Hopper Aggregate Heater



# RA-400 Patcher Specifications



Dimensions	<ul style="list-style-type: none"> <li>- Length: 28' boom retracted 38' 5" boom fully extended</li> <li>- Width: 8' 6"</li> <li>- Height: 10'</li> <li>- Weight: 18,000 lbs w/ standard chassis</li> </ul>	Aggregate System	<ul style="list-style-type: none"> <li>- Low profile, 5 cu yard hopper</li> <li>- Rectangular welded 10' 3" x 7' aggregate hopper</li> <li>- Cab-controlled, adjustable slide gate in hopper</li> <li>- Accepts aggregates up to 3/4"</li> <li>- Plus+1 settings: rock flow, emulsion flow and air flow</li> </ul>
Chassis	<ul style="list-style-type: none"> <li>- Cab-over Peterbilt 220 (or equivalent)</li> <li>- Engine: 240 hp (179 kw) diesel engine</li> <li>- Gross vehicle weight: 33,000 lbs</li> <li>- Single axle, rear</li> </ul>	VORTEC System	<ul style="list-style-type: none"> <li>- Vacuum Operated Rock Transfer Emulsion Coating System (VORTEC)</li> <li>- Utilizes no mechanical or moving parts</li> <li>- Ease of access to clean/service slide gate</li> </ul>
Auxiliary Engine	<ul style="list-style-type: none"> <li>- Kubota diesel engine</li> <li>- Tier 4 Final - 74 hp (55.2 kw)</li> </ul>	Feed and Flush System	<ul style="list-style-type: none"> <li>- Air pressurized, deliver sufficient asphalt to cover aggregate at full feed capacity</li> <li>- Delivery system capable of maintaining 60 psi</li> <li>- 30 gallon minimum capacity, provisions for storing used flush material</li> <li>- 3-way valve for flush, delivery and shut-off</li> </ul>
Hydraulics	<ul style="list-style-type: none"> <li>- Dual hydraulic pump</li> <li>- 28 gallons per minute. blower function</li> <li>- 9 gallons per minute. all other functions</li> <li>- Tank reservoir: 20 gallons</li> </ul>	Operator Controls	<ul style="list-style-type: none"> <li>- One person operation from driver seat</li> <li>- All patching functions in-cab, including cleaning, tack coating, patching and dust coating</li> <li>- Single joystick control: boom swing, extend/retract and push button for up/down</li> <li>- Push button operates: blow out mode, emulsion on/off, blower on/off, blow inc/dec, rock flow inc/dec and emulsion inc/dec</li> </ul>
Tank Capacity	<ul style="list-style-type: none"> <li>- 300 gallons</li> </ul>	Additional Standard Equipment	<ul style="list-style-type: none"> <li>- LED beacon light</li> <li>- LED lights in the 30" x 60" arrow board, 13 light</li> <li>- LED lights, stop, turn signals and tail lights</li> </ul>
Tank	<ul style="list-style-type: none"> <li>- Overnight heating, two 2,250 watt, 120v thermostatically controlled heater elements</li> <li>- 5" diameter dial thermometer and emulsion level indicator, both visible from cab</li> </ul>	Optional Equipment	<ul style="list-style-type: none"> <li>- Back-up/reverse camera with in-cab color display</li> <li>- Larger arrow board 48" x 96"</li> <li>- LED night working light package, 2 front, 1 rear</li> <li>- 240V heater conversion in lieu of 120V</li> <li>- Emergency triangle kit, flare, fire extinguisher</li> <li>- Jet flush system</li> <li>- Hopper Aggregate Heater</li> </ul>
Insulation	<ul style="list-style-type: none"> <li>- Styrofoam-incased liquid asphalt emulsion tank</li> </ul>		
Boom	<ul style="list-style-type: none"> <li>- Front-corner mounted boom, joystick controlled</li> <li>- Folds and stows across front bumper</li> <li>- Reach, extracted: 7' 5" radius</li> <li>- Reach, extender: 11' 5"</li> <li>- Patching area: 42 sq ft</li> </ul>		
Compressed Air System	<ul style="list-style-type: none"> <li>- High volume, low pressure, positive displacement blower driven by truck hydraulics motor</li> <li>- Capable of: 850 cfm @ 2,850 rpm</li> </ul>		



ST Engineering LeeBoy, Inc. ■ 500 Lincoln County Parkway Extension ■ Lincolnton, NC 28092 ■ 704.966.3300  
[www.LeeBoy.com](http://www.LeeBoy.com)

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## Product Specifications

# Rosco RA-400 Patcher

The following specifications are based on the Rosco RA-400 Patcher manufactured by LeeBoy. Because of continuous equipment research and development, we reserve the right to change these specifications. For more information, questions or assistance preparing specifications, please contact your local LeeBoy Dealer.

### 1. Dimensions

- a. Length: 28' with boom retracted  
38' 5" with boom fully extended
- b. Width: 8' 6"
- c. Height: 10'
- d. Weight: 18,000 lbs with standard chassis

### 2. Chassis:

- a. Cab-over Peterbilt 220 (or equivalent)
  - b. GVWR: 33,000 lbs
  - c. Front axle: 12,000 lbs
  - d. Rear axle: 21,000 lbs, rear springs rated for 23,000 lbs
  - e. Engine: 240 hp (179 kw) @ 2,400 rpm diesel engine
  - f. Wheelbase: 164"
  - g. Cab-to-axle: 153"
- \*Rosco to review truck specifications prior to bid and/or order

### 3. Hydraulics:

- a. Dual hydraulic pump
- b. Variable displacement hydrostatic pump for blower functions rated at 28 gallons per minute
- c. Fixed displacement hydrostatic pump for all other function rated at 9 gallons per minute for all other functions driven from auxiliary engine
- d. Hydraulic tank reservoir: 20 gallons

### 4. Auxiliary Engine:

- a. Kubota Tier 4 Final diesel engine
- b. 74 hp (55.2 kW) @ 2,600 RPM
- c. In-cab aux engine controls at operator's station with tachometer, hour meter and warning system

### 5. Air System:

- a. High volume, low pressure. Positive displacement blower driven hydraulics motor
- b. Capable of 850 cfm @ 2,850 rpm
- c. Hydraulically-driven blower with variable CFM from 0-850

### 6. Aggregate System:

- a. Low profile, 5 cubic yard hopper, or 11,000 lbs

- b. Rectangular welded 10' 3" x 7' aggregate hopper
- c. In-cab controlled vibration system
- d. Dual electric over hydraulic activated hopper lids, rear access open/close switch
- e. Cab controlled adjustable, feed slide gate meters aggregate flow
- f. System will accept aggregates up to .75"
- g. Plus+1 system store settings: rock flow, emulsion flow and air flow
- h. VORTEC: Vacuum Operated Rock Transfer Emulsion Coating system
  - i. System utilizes no mechanical or moving parts to move aggregate
  - ii. Ease of access to clean and service the slide gate and sub systems
  - iii. Conveyors and/or paddle feeders are NOT acceptable
  - iv. Venturi nozzle with cleanout

**7. Liquid Asphalt Emulsion Tank:**

- a. Insulated liquid asphalt emulsion tank
- b. Overnight heating by two 2,250 watt, 120 volt thermostatically controlled heater elements, located in water heat exchanger tube
- c. Alternate heat source provided to maintain heat on worksite, regulated automatically to prevent over or under heating of materials
- d. Asphalt line heated to prevent clogging during operation
- e. Tank mounted 5" dial thermometer and emulsion level indicator both visible from cab
- f. Tank size: 300 gallons
- g. Tank fill opening: 12"

**8. Asphalt Emulsion Feed and Flush System:**

- a. Air pressurized system to deliver sufficient asphalt to completely cover aggregate at full feed capacity
- b. Delivery system capable of maintaining 60 psi
- c. Flush system 30 gallon minimum capacity with provisions for storing used flush material
- d. Asphalt tank is equipped with a three-way valve for flush, delivery and shut-off

**9. Operator Controls:**

- a. One person operation from driver's seat
- b. All patching functions are in the cab, including cleaning, tack coating, patching and dust coating
- c. LCD display controlled from Plus+1 CAN Bus system in cab monitors boom location, blower speed, rock and emulsion flow, hydraulic temperature, emulsion level and system faults
- d. Single joystick controls: Boom swing, extend/retract and push button for up/down
- e. Push buttons operate: Blow out mode, emulsion on/off, aggregate gate on/off and extension/retraction
- f. Control center includes: Auxiliary engine on/off, blower on/off, blower inc/dec, rock flow inc/dec and emulsion inc/dec
- g. Engine alarm, tachometer, pre-heat, engine start/on/off, rpm min/max
- h. Boom auto stow and override
- i. Vibrator on/off, beacon light switch, hour meter, circuit breakers

**10. Arrow Board:**

- a. Multi-function arrow board mounted on rear
- b. Size: 30" x 60" LED



- c. 13 bulb configuration
- d. Multi-function control panel mounted in truck cab
- e. Separate arrow board control panel

**11. Telescopic Boom:**

- a. Front-corner mount boom storage system
- b. Eliminating windshield obstruction in stow position
- c. One piece, double acting boom with three-stage telescoping aggregate delivery tube
- d. Cable/hose carrier, heated water lines with individual nozzle shut-offs
- e. Double acting swing and hoist hydraulic cylinders
- f. Position censored safety system that does not allow boom swing into traffic beyond center line
- g. Capable swing operations to shoulder and center with caution
- h. Emulsion hose energy chain for protection
- i. Reach, retracted: 7' 5"
- j. Reach, extended: 11' 5"
- k. Patching area: 42 ft<sup>2</sup>

**12. Patch (on the Go):**

- a. Electric hydraulic flow control for independent operation allows patching while moving at slow speeds

**13. Additional Standard Equipment:**

- a. LED beacon light
- b. LED lights, stop, turn signals and tail lights

**14. Optional Equipment:**

- a. Back-up/reverse camera with in-cab color display
- b. Larger arrow board 48" x 96"
- c. LED working light package, 2 front, 1 rear
- d. 240V heater conversion in lieu of 120V
- e. Emergency triangle kit, flare, fire extinguisher
- f. Jet flush system
- g. Hopper Aggregate Heater  
One 100,000 BTU diesel burner  
7 gallon fuel tank  
Auto ignition diesel burner with outfire

**15. Training, Support and Company**

- a. Training and support manuals
- b. Optional on-site operator training by Dealer
- c. Two-year, unlimited hours warranty against any manufacturer defects
- d. Extended warranty available
- e. 55+ years manufacturing experience
- f. ISO 9001 Certified
- g. Sourcewell Contract # 052417-VTL
- h. Manufactured in the USA

SS-9002.7-EN

**Rosco**  
A Lighting Company



# EQUIPMENT PRICING & ORDER FORM

Effective: 1 March 2022

Phone: 704.966.3300

Prices in US Dollars

Sales@LeeBoy.com

FOB Lincolnton, NC

## RA 400 Patcher

DEALER: Tractor & Equipment Co.

DATE: 10/4/2022

P. O. NO: Quote

FLOOR PLAN: YES / NO WITH: \_\_\_\_\_

NEED BY DATE: \_\_\_\_\_

STOCK ORDER: YES / NO CUSTOMER: ACCA

SHIP VIA: \_\_\_\_\_

**\*\*\*Specifications are required with orders linked to bids\*\*\***

CONTACT EMAIL: \_\_\_\_\_

**SOLD ORDER - CUSTOMER CLASS:**

SHIP TO ADDRESS: \_\_\_\_\_

CONTRACTOR	GOV / MUNI	NATIONAL ACCOUNT	SOURCEWELL
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

MODEL	DESCRIPTION	LIST PRICE	ORDER NUMBER	CK
RA 400	74 HP Enclosed Kubota Aux Eng. Patch On-The-Go	\$ 164,995	RA400AP	X

**STANDARD FEATURES**

**>>>> Truck Prices NOT Included ----- Sales Orders That Require a Special Order Truck Chassis are NOT Cancellable <<<<**

**ALL CUSTOMER SUPPLIED CHASSIS REQUIRE PRE-APPROVAL PRIOR TO ORDER ACCEPTANCE**

See Rosco RA400 Specifications at: [LeeBoy.com](http://LeeBoy.com) - RA400 Patcher

**OPTIONS**

DESCRIPTION	LIST PRICE	ORDER NUMBER	CK
Back-up / Reverse camera w/in cab color display	\$ 1,841	1007953	X
LED Larger Arrow Board, 48" to 96"	\$ 2,762	985623	
LED Night Work Light Package (2 front, 1 rear work lights)	\$ 1,129	1006026	X
240 V Heater Conversion in lieu of 120V	\$ 1,182	22766	
Rock Hopper Heat	\$ 6,419	1023794	
Emergency Triangle Kit, Flare Kit, Fire Extinguisher	\$ 1,129	1005478	
Jet Flush System	\$ 2,642	1003459	X
Extended Warranty Program (Contact factory for specifics or go to <a href="http://www.leeboy.com">www.leeboy.com</a> and view extended program under the warranty tab of the dealer login home page.)			

Pricing subject to change 90 days prior to delivery.



<b>Total List Price</b>	<b>\$ 170,607.00</b>
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COMMENTS: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

PHONE: \_\_\_\_\_

<b>Information Required for the E-Verify Program</b>	
<b>Information relating to your Company:</b>	
Company Name	Tractor & Equipment Co Inc
Company Facility Address	5336 Messer Airport Highway Birmingham, AL 35212
Company Alternate Address	PO Box 12326 Birmingham, AL 35202
County or Parish	Jefferson
Employer Identification Number	63-0211767
North American Industry Classification Systems Code	Merchant Wholesalers, Durable Goods (423)
Parent Company	
Number of Employees	500 to 999
Number of Sites Verified for	22