



Spray Patchers

RA-400 Spray Patcher



RA-400 Pothole Spray Patcher

Performance features include:

- **Side Mount Boom** – for improved visibility and a greater working range for side-to-side patching.
- **VORTEC (Vacuum Operated Rock Transfer Emulsion Coating) System** – has no mechanical or moving parts to break or wear and is easily accessible for cleaning and servicing of the slide gate and sub-systems.
- **Rectangular Hopper** – 9'4" x 7' (2.84 m x 2.13 m) wide for easier loading of rock material. Hydraulic actuated open/close doors are standard equipment.
- **CanBus In-Cab Controls System** – allows the operator to meter both rock and air flow using a joystick which is mounted adjacent to driver's seat.

Designed with the Paving Professional In Mind.®

Best in Class



Telescoping Delivery Boom

A single operator controls all patching functions from the safety and comfort of the RA-400 cab. The industry-leading hydraulic Patch-on-the-Go system allows for patching on the move. A quiet, fuel efficient Kubota Tier 4i auxiliary engine is utilized.

Patching with the RA-400 spray injection process provides the operator the ability to repair large numbers of road defects in a single day. The driver operates a joystick from the driver's seat, performing the four-step process typically in less than a minute per repair.

During the patching process the patching boom extends and retracts while on the move with the operator's joystick controlling boom movement. The patented three-stage, telescoping aggregate E-Chain Energy Tube and emulsion hose take-up reel provide a wide patching range with minimal maintenance.

With the operator safely protected in the cab, and the rear arrow board directing traffic movement, work may continue in low or high volume traffic areas.

Note:
Standard 13 lights
shown, 13 LED lights
optional



60-Second Patching System

Spray injection with the RA-400 is easy and effective. According to the **National Research Council's SHRP Report**, spray injection patching is the most economical and longest lasting method of pothole repair.



The pothole is cleaned with a hydraulically-driven, high-volume blower.



A tack coat of emulsion is applied to the area.



A mixture of aggregate and hot emulsion fills the pothole.



A finish coat of dry aggregate and traffic flows!

VORTEC (Vacuum Operated Rock Transfer Emulsion Coating) System



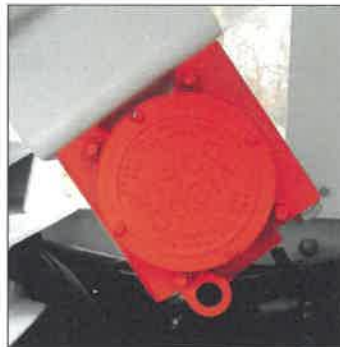
The RA-400 patcher's **VORTEC (Vacuum Operated Rock Transfer Emulsion Coating)** system uses air to deliver material from the hopper through the boom assembly. Delivering the air, aggregate and emulsion needed in the spray patching process is a low pressure (3-4 psi) system that keeps material flowing into the air stream and eliminates the need for moving parts.

A 5-yard aggregate hopper and 300-U.S.-gallon emulsion tank enables the RA-400 to patch for days, requiring only occasional aggregate fills. Daily maintenance is minimal. The RA-400 patcher's three-way valve smoothly changes from clean-out to operation and the few wearing parts are easily accessible. At the end of the day clean out takes only seconds and the RA-400 is ready for the next job.

Joystick Patching Controls

The RA-400 patcher's right-hand joystick controls all functions including material flow and boom movement. This one-person operating system is both efficient, safe, and all from the comfort of the truck.

All patching functions are conducted from the vehicle, protecting the operator from risk and the elements. The spray injection patching process can be performed in temperatures above 32°F. The hopper vibrator prevents bridging of aggregate, common to other spray injection systems.



Configuration Checklist

RA-400

300-gallon (1,136 l) Heated Emulsion Tank	✓
5-yard (4.57 m) 11,000 lb. (4,990 kg) Aggregate Hopper	✓
Joystick Patching Control	✓
Arrow Board, 13-light, Multi-function, 2'6" x 5' (0.76 m x 1.52 m)	✓
Engine-powered, Hydraulic Patch-on-the-Go-System	✓
Front-mounted Telescoping Delivery Boom	✓
Light Package	✓
Aggregate Hopper Heat	✓
Arrow Board, 13 LED Lights, 2'6" x 5' (0.76 m x 1.52 m)	optional
Arrow Board, 4' x 8' (1.22 m x 2.44 m)	optional
Jet Flush System	optional
Back-up Camera	optional

Specifications

RA-400 Spray Patcher

TRUCK	
Make	Peterbilt
GVW	32,900 lbs. (14,923 kg)
Number of Axles	Single axle rear
TRANSMISSION	
Make/Model	Allison 2500RDS
Type	Automatic, 5 forward speeds & 1 reverse
Final Drive Ratio	5.86
ENGINE	
Make	Kubota, turbocharged, Tier 4 interim
Performance	74 hp (55 kw) @ 2,400 rpm
Torque	195.5 lb ft @ 1,600 rpm
EMULSION TANK	
Capacity	300 gallons (1,136 l)
Type	Styrofoam-incased tank
Emulsion Heat Specs	Two 4,500 watts, 240 volts
ROCK HOPPER	
Capacity	5 cubic yards (3.82 cu m)
Delivery System	VORTEC generator technology
AUXILIARY ENGINE	
Make	Kubota Tier 4 interim
Performance	74 hp (55 kw) @ 2,400 rpm
FRONT BOOM	
Type	Side-mounted, joystick-controlled
Specifications	Folds and stows across front bumper Max. length extended - 11'5" (3.48 m) Min. length extended - 7'5" (2.26 m) Max. patch area - 41 sq ft (3.81 sq m)



Side Mount Boom



Easy Load Hopper

LeeBoy makes continuous improvements to all its products and reserves the right to change specifications without notice. Photos and illustrations may contain standard and optional equipment.

RA-400 Spray Patcher, UX

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RA-2000 Spray Patcher



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