

Use The Machinery Of
AASPA EQUIPMENT
Pave The Way To Success



AASPA POTHOLE PATCHER MECHINE



**NO TRUCK REQUIRED FOR POTHOLE PATCHER
MECHINE**

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1 CLEANED

Using the high volume blower, the Aaspa patcher easily blows all loose debris and even water from the pothole; cleaning it, and preparing the hole for an effective patch.

2 PREPARED

The Aaspa patcher now coats the pothole with an asphalt emulsion which seals the pothole and prevents further damage from occurring, due to moisture.

3 FILLED

As the aggregate passes through the nozzle it is coated with emulsion and sprayed into the hole or broken road edge. The Aaspa patcher asphalt mix is sprayed at speeds of up to 100kph, compaction from the bottom up is achieved; denser than rolled asphalt.

4 SEALED

The wet top of the repaired area can now be protected from traffic flow, using either dry aggregate sprayed from the Aaspa patcher, or, for inner city work (where loose chip is a potential hazard), sand from optional sand hopper which can be built into the Aaspa patcher unit .



INJECTION

- AASPA EQUIPMENT Patching is an innovative approach for quickly tackling thousands of effects, delivering permanent repairs that cost a fraction of traditional patching techniques.
- The AASPA EQUIPMENT patcher forces air at high speed into potholes to clear them out, then the area is coated with cold bitumen to create a perfect seal, before aggregate is coated in bitumen and applied, again at high speed.
- The process takes just a couple of minutes, but the intensive bottom-up layering process makes for a strong durable repair without causing further damage to the road.
- There's no excavation, no waste, no need for road closures, and because there's no heat involved, it's also exceptionally low on carbon emissions .





Bitumen Hand Sprayer



Bitumen Spray Bar



| 1. Auxiliary Industrial Engine | |
|--|---|
| Make | Ashok Leyland / Cummins / Equivalent |
| Rated Engine Horse Power | 49 HP (Min.) |
| Fuel Type | Diesel |
| Enclosure | An enclosure with sound insulation with inspection door and louvers is provided for housing the engine blower and air compressor. |
| 2. Blower | |
| Type | Twin / Tri- Lobe positive displacement |
| Pressure rating | 750 milibar |
| 3. Air Compressor | |
| Type | Reciprocating Piston |
| Accessories | Air tank, Pressure Gauge, Pressure Relief Valve etc. as per |
| 4. Pressurized Emulsion Tank | |
| Volumetric Capacity | 1000Ltrs. |
| Emulsion Feed System | Pneumatically |
| 5. Emulsion Inline Heating System | |
| | The inline Filter and nozzle are fitted with 12 V heaters. A heat exchanger within the emulsion lines provides additional heating from the auxiliary engine radiator coolant. |

| 6. Aggregate Hopper | |
|-------------------------------------|--|
| Volumetric Capacity | 2 Cu.M steel Hopper with safety grate to prevent large size aggregate to enter the hopper and pneumatically actuated gate at delivery end to prevent spillage of aggregate while the machine is not in operation / is travelling . |
| Aggregate Feed System | Hydraulically operated belt conveyor with facility to adjustment of belt tension and belt speed. |
| 7. Pressurized Water Tank | |
| | 100 Ltrs. fitted with pressure gage, pressure release valve and other accessories for filling and draining the tank required for cleaning of aggregate delivery hose and wetting of aggregate if dry |
| 8. Pressurized Kerosene Tank | |
| | 25 Ltrs. fitted with pressure release valve, pressure gage and other accessories required for nozzle and emulsion line cleaning. |
| 9. Hydraulic System | |
| Hydraulic Pump | |
| Hydraulic Oil Tank | 75 Ltrs. capacity with internal filter strainer and 100 micron filter on return lines and other accessories. |
| 10. Placement Boom | |
| | 3.2 Mtrs. boom with more than 300 degree rotation and 4 Mtrs. placement hose which controls for flow of emulsion, auxiliary engine speed and On-Off of conveyor and spray nozzle. |
| 11. Control | |
| | <ul style="list-style-type: none"> · Auxiliary Engine ON-OFF and other controls from outside the cab of unit. · Speed controls at rear of hopper for conveyor. · Flow control of Emulsion at Nozzle. · ON-OFF Control of conveyor at nozzle. · Throttle/Speed control of Auxiliary Engine at nozzle |
| 12. Safety feature | |
| | <ul style="list-style-type: none"> • Emergency Stop Button • Blower High Temperature Switch • Blower High Pressure Switch • Pneumatic, Hydraulic Pressure release |

| 13. Working Platform and Ladders, Storage Rack and Tool Box | |
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| | <ul style="list-style-type: none"> • Adequate working platform is provided to carry out repair to the various components of the equipment as per requirement. Equipment is also provided with storage rack and tool box as per requirement. |
| 14. Reverse Camera | |
| | <ul style="list-style-type: none"> • Vehicle shall have reverse camera connected with cabin LED screen for improved visibility and prevent potential danger to human and animals in the vicinity of the machine |
| 15. Miscellaneous | |
| | <ul style="list-style-type: none"> • Beacon light-1 No. • Hand operated traffic signal-1 No. • Rear light for night operation-1 No. Miscellaneous equipment for diversion of traffic. • Arrow board at rear of the equipment to increase jobsite visibility and lend safety to the operator. |
| 16. Vibratory Plate Compactor (Optional) | |
| Plate Size | • 380 x 480 mm |
| Drive Engine | • Air cooled petrol engine 3.9 H.P- |
| Fuel Tank | • 3.1 Ltr. |
| 17. Overnight Heating System (Optional) recommended only if the night temperature falls below 5 degree centigrade | |
| | <ul style="list-style-type: none"> • The emulsion vessel is fitted with an overnight heating system comprising of 220V electrical heating element which is thermostatically controlled to prevent frost damage to the emulsion overnight. |
| 18. Truck chassis required | |
| Truck capacity | 10 ton |
| chassis required | 17 to 18 feet |

BENEFITS

1. Improved Efficiency

- **Faster Repairs:** Pothole patching machines significantly speed up the repair process, reducing the time required to fill a pothole. They can complete repairs in a fraction of the time it would take using manual methods.
- **Continuous Operation:** These machines are designed to work continuously, with little to no downtime. Operators can patch multiple potholes in a single shift, greatly improving productivity.

2. Cost Savings

- **Labor Reduction:** Traditional pothole repairs require multiple workers for tasks such as digging, filling, and compacting. Pothole patcher machines can perform these tasks with one operator, reducing labor costs.
- **Material Efficiency:** Pothole patcher machines are designed to use materials more efficiently, reducing waste and lowering material costs.
- **Long-Term Savings:** By maintaining roads properly, pothole patcher machines help extend the life of road surfaces, potentially reducing the need for expensive full-scale road repairs in the future.

3. GPS Tracking System & Camera System

- **GPS Tracking System:** GPS systems can calculate the most efficient routes to reach multiple potholes, minimizing travel time and maximizing repair coverage.
- **Camera System:** Cameras can precisely identify potholes, ensuring that only areas needing repair are patched, preventing unnecessary material usage and labor.

BENEFITS

4. Improved Road Quality

- **Better Surface Finishing:** These machines are capable of providing a smoother, more uniform finish when patching potholes, resulting in a higher-quality road surface.
- **Reduced Future Damage:** By filling potholes promptly, pothole patchers prevent further deterioration of the road surface, reducing the risk of additional damage and maintaining better road quality over time.

5. Environmental Benefits

- **Reduced Carbon Footprint:** Many pothole patching machines are equipped with eco-friendly technologies, such as reducing emissions or using recyclable materials, which helps lower the environmental impact of road maintenance.
- **Use of Sustainable Materials:** Some machines can work with eco-friendly patching materials that are made from recycled asphalt, reducing the need for virgin materials and supporting sustainability efforts.

6. Versatility

- **Multiple Applications:** These machines can handle a wide variety of road conditions, from small cracks to large potholes, and can work with different types of patching materials (hot mix, cold mix, or even rubberized materials).
- **Adaptability:** Pothole patcher machines can be adapted to various weather conditions and road types, making them useful for municipalities or contractors dealing with different environments (urban, rural, highways, etc.).

BENEFITS

7. Labor and Time Optimization

- **One-Person Operation:** Many pothole patching machines can be operated by a single person, reducing the need for a large crew and allowing workers to focus on other maintenance tasks.
- **Improved Scheduling:** Due to the speed of operation, crews can schedule repairs more efficiently, ensuring that high-priority areas are addressed first and that maintenance is regularly performed to prevent further deterioration.

8. Reduced Traffic Disruptions

- **Fewer Traffic Delays:** Since pothole patching machines work faster than manual methods, they help minimize traffic delays and disruption during repairs, especially in busy urban or highway areas.
- **Less Roadway Occupancy:** Many pothole patchers are designed to operate while the machine is moving, reducing the need for long-term road closures or detours.

9. Improved Public Perception

- **Better Road Maintenance Image:** Efficient and timely pothole repairs reflect positively on local authorities and road maintenance contractors, improving public satisfaction and confidence in road infrastructure management.
- **Preventative Maintenance:** Regular use of pothole patching machines demonstrates a proactive approach to road maintenance, preventing the issue from escalating into a more serious problem.

BENEFITS

10. Increased Worker Safety

- **Less Manual Labor:** Pothole patching machines reduce the need for workers to perform potentially hazardous tasks, such as working in high-traffic zones or handling heavy materials manually.
- **Ergonomic Benefits:** Modern machines are designed with ergonomics in mind, providing operators with a safer and more comfortable work environment.

11. Technological Advancements

- **Precision Application:** Some machines come with advanced technologies that help ensure the patching material is applied precisely and at the right temperature, improving the durability and longevity of the repairs.
- **Integrated Monitoring:** Some pothole patching machines are equipped with sensors and monitoring systems that provide real-time feedback on repair quality, material usage, and other factors, helping to ensure optimal results.

12. Spray Bar Nozzle & Hand Spray Bar

- **Spray Bar Nozzle :** The spray bar nozzle allows for a more controlled distribution of the patching material, ensuring that only the necessary area is filled, reducing waste and creating a more even patch.
- **Hand Spray Bar :** Increased precision in applying patching material, faster repair times, better control over the patching process,

THE EXPERTS FOR POTHOLE REPAIRS



TRAILER MOUNTED

Introducing the 1200 Series

Trailer mounted units, 2 to 10 cubic metre capacity



The 1200 Series is gravity-fed and was designed to have fewer moving parts and be lighter than the original series. It is the newest model of patching machines, is the simplest to use and has very low maintenance costs without the loss of performance. It can be mounted on a trailer or a truck chassis depending on the size of the hopper.

SPECIFICATION

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| .Engine- Eicher 621es make Diesel Engine (Water Cooled) (25HP / 50HP / 75HP) |
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| Blower- AB-5305 Air blower |
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| Air compressor - a nest Iwata TLT-50-12 |
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| Plate Compactor- Honda |
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| Hopper- Fabricated MS 5 mm plate size 4.5 cum |
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| Emulsion Tank - 1600 liter |
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| Water tank - 170 liter |
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| Kerosene/Diesel oil tank 70 liter |
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| Spray nozzle- 100 mm Aluminum |
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| Hose - Flexible hose 105 mm |
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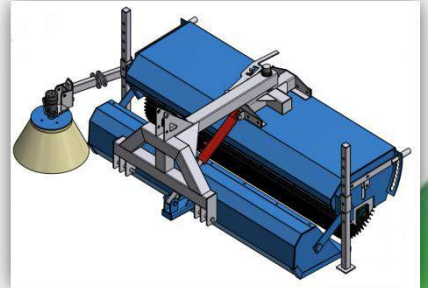
OUR EQUIPMENTS



ASPHALT PAVER



ASPHALT DRUM MIX PLANT



ROAD SWEEPER MACHINE



KERB PAVER MACHINE 1000



KERB PAVER MACHINE 100



COMPACT CONCRETE BATCHING PLANT



ASPHALT BATCH MIX PLANT



STATIONARY CONCRETE BATCHING PLANT



COUNTER FLOW DRUM MIX PLANT



HORIZONTAL STOREGE SILO



BITUMEN DRUM DECANDER



KERB CUTTING MACHINE

OUR EQUIPMENTS



**DUST
CONDITIONER**



**WASTE COMPOST
MACHINE**



**SEGRIGATION
COMPOST MACHINE**



**REVERSIBLE
BATCHING PLANT**



**BITUMEN
EMULSION PLANT**



**WET MIX MACADAM
PLANT/DLC PLANT**



**COAL FIRED
BURNER**



**AASPA POTHOLE PATCHER
WORKING PROCESS**



**MOBILLE CONCRETE
BATCHING PLANT**



**BITUMEN PRESSURE
DISTRIBUTOR**



**BITUMEN EMULSION
SPAREYER**



**FULLY AUTOMATIC
ROAD MARKING
MACHINE**

OUR EXPORTS



GET IN TOUCH



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