



Mobile Cold Emulsion Spray Injection Pothole Patching Machine



VELOCITY are world leader with machine operating globally with support on 3M's

TPS – VELOCITY machines backed by more than 20 years experiences of VELOCITY-UK AND TPS all India service / spares support base.

Disclaimer : Actual product may vary due to product enhancement/design changes

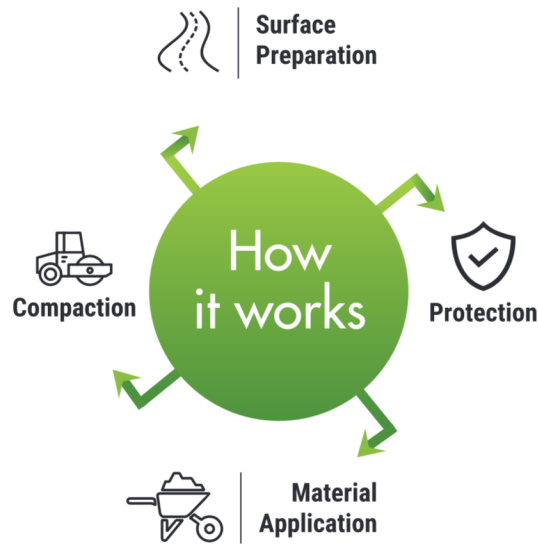
The Mobile Cold Emulsion Spray Injection Pothole Patching Machine is a Truck Mounted Equipment suitable for repairing and maintenance of Bituminous Roads which include preventive and emergency repair of Potholes, sealing and extending the life of worn-out conventional repair, sealing of depressions, alligator cracks, crazing, pre-surface dressing, patching, repair to shoulders etc. in a fast and efficient manner.



High velocity air is used to remove all dust and debris from the surface leaving a perfect base for repairs.



Cleaning and compaction with the help of plate compactor



A cold bitumen emulsion is forced into every cracks and crevice, sealing the defect and protecting it by preventing the ingress of water.



The aggregate mix is fired at high velocity through a delivery hose, evenly coating the aggregate granules with bitumen emulsion.

Salient Features

- Mobile self container unit – can easily travel to distant locations
- Low Carbon foot print as all materials are cold applied.
- Defects fully sealed to prevent water ingress and further damage
- Unlike a conventional hot mix machine, the cold emulsion spray injection pothole patching machine can be used to repair the road at any time during the year, as the machine can be used to repair wet road surfaces during the rainy season or in winter season
- Permanent repairs quickly blending into the existing road surface
- Fast repairs immediately open to traffic
- Improved public perception due to speed of repair

Sl.No.	Technical Parameter	Specification –(Depending upon Model)
1.	Truck Chassis	
	Make	TATA Motors / Ashok Leyland / Eicher / Equivalent
	Rated Engine Horse Power	Min. 90 HP
	Gross Vehicle Weight (GVW)	7500 Kgs to 28000 Kgs.
	Fuel Type	Diesel/CNG
2.	Auxiliary Industrial Engine	
	Make	Ashok Leyland / Cummins /Equivalent
	Rated Engine Horse Power	35 HP to 49 HP
	Fuel Type	Diesel/CNG
3.	Blower Type / Pressure Rating	Twin / Tri-Lobe / 700 - 750 milibar
4.	Air Compressor	Reciprocating Piston type with Air Tank, Pressure Gauge, Pressure Relief Valve etc. as per system requirement
5.	Pressurized Emulsion Tank	500 Ltrs. to 1600 Ltrs. With Pneumatic Emulsion Feed System
6.	Inline Emulsion 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.
7.	Aggregate Hopper	1.5 Cu.M to 10 Cu.M / aggregate feed through Hydraulically operated belt conveyor/gravity feed.
8.	Pressurized Water Tank	50~100 Ltrs. for cleaning of aggregate delivery hose and wetting of aggregate if dry.
9.	Pressurized MTO Tank	20~25 Ltrs. for nozzle and emulsion line cleaning.
10.	Hydraulic System	Gear Pump / Hydraulic Oil Tank
11.	Placement Boom	3.2 Mtr. boom with more than 300 degree rotation and 4 Mtr. placement hose
12.	Safety Feature	Emergency Stop Button / Blower High Temperature Switch / Blower High Pressure Switch / Pneumatic, Hydraulic Pressure release valves, Pressure gage etc.
13.	Controls	<ul style="list-style-type: none"> • Auxiliary Engine ON-OFF and other controls from outside the cab of unit. • Speed controls of conveyor at rear of hopper. • Flow control of Emulsion at Nozzle. • ON-OFF Control of conveyor at nozzle. • Throttle/Speed control of Auxiliary Engine at nozzle.
14.	Miscellaneous	<ul style="list-style-type: none"> - Reverse Camera 1 No. - 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.
15.	Vibratory Plate Compactor	
	Plate Size Drive Engine Fuel Tank	<ul style="list-style-type: none"> - 380 x 480 mm - Air cooled petrol engine 3.9 H.P - 3.1 Ltr.
16.	Overnight Heating System (Optional) recommended only if the night temperature falls below 5 degree centigrade.	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.
Note: The machine can be customized as per client's requirement.		

CONTROLS AT NOZZLE

- Auxiliary Engine Speed / Air Flow Control
- Aggregate Conveyor ON / OFF Switch
- Emulsion Flow Control Valve



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Joint venture between TPS Infrastructure Limited and Velocity UK

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