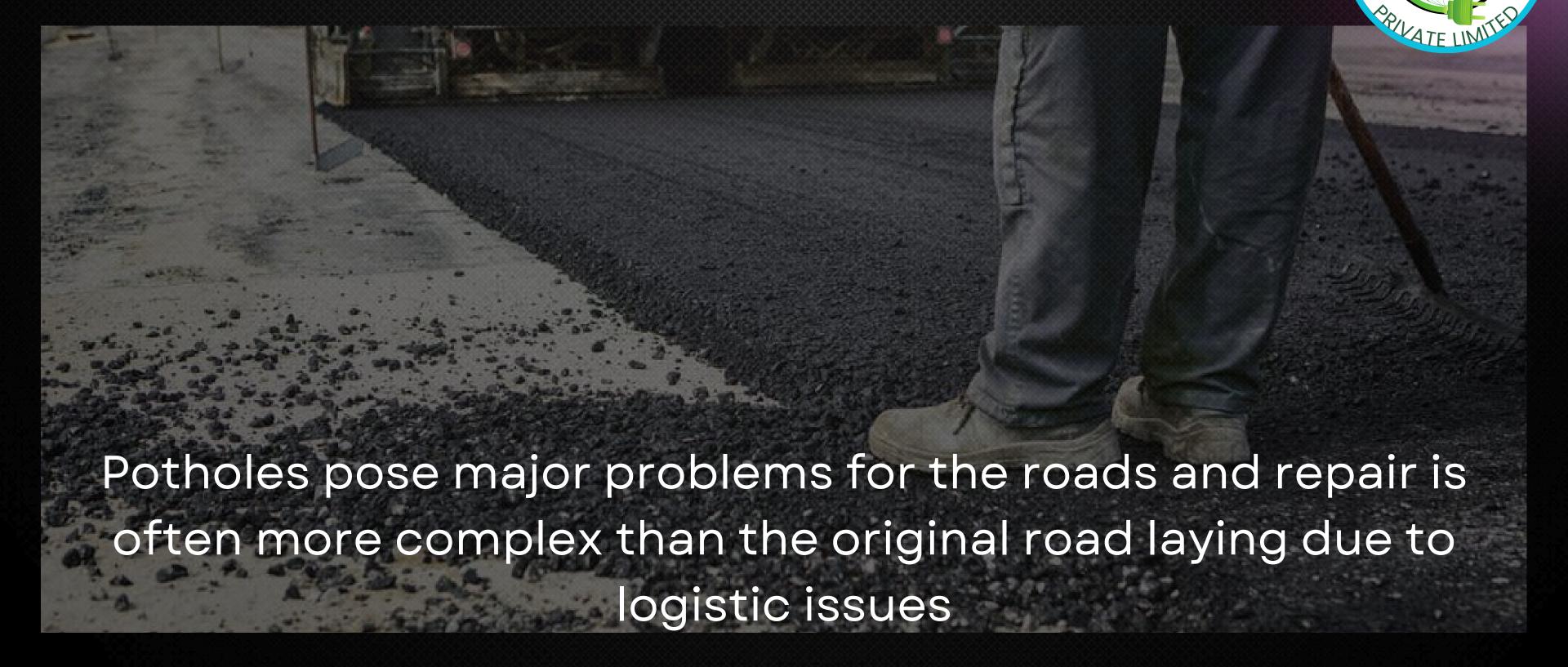
Myshon







POTHOLES ON ROADS ARE UNIVERSAL



EXISTING PROCESS TO REPAIR POTHOLES

- Present method is Manual,
 Highly Time Consuming, and
 Cumbersome.
- Difficult to carry out repair work within stipulated time.
- Difficult to ensure quality of the patch as the temperature, maintenance of the asphalt poses challenge.
- Manual process exposes the workers to traffic hazards.
- Weather also poses big challenge and affects the productivity.



Myshon









Safe. Fast. Easy.
PRESERVES OUR ROADS,
CONSERVES OUR
ENVIRONMENT



ABOUT PYTHON MFG. COMPANY

- Python Manufacturing Inc. is based in Canada
- The Company has been building highly efficient Industrial and Farm equipments for more than 40 years.
- The people at Python have been designing and manufacturing trendsetting equipments to meet the needs of farmers, contractors, cities and communities in the world.





PLANT FRONT



ASPHALT LOADING



PYTHON 5000

VALUE PROPOSITION

- Best of the available technology from Canada i.e., fully automatic, ALL-IN-ONE equipment
- Road Maintenance crew of one person makes potholes repairs.
- Each Pothole is filled in less than 3 minutes.
- The new equipment will repair potholes more effectively than traditional methods, saving time, timely completion of the job.
- Improving safety of maintenance crews and the users.
- Easy to fill the potholes using the self-propelled pothole patcher.
- No hold up of the traffic.
- Enhances the life of the road, Long Lasting repair.
- Provides a new driving experience to the users.



FOUR STEPS PROCESS FOR POTHOLE FILLING

The hole is cleaned. A high volume blower provides a blast of the air to remove loose rocks and debris.

2

A tack coat of hot emulsion is applied to the area to be patched.

A roller with hydraulic pressure is used for compacting the patch

3

Asphalt maintained at the desired temperature between 90-100 centigrade is filled into the pot.

Traffic can flow immediately

AWINWIN



Potholes can cause damage to vehicles or even result in a motorist losing control of a vehicle and crashing. Road maintenance crews are in danger when repairing potholes on busy roadways.



The automated pothole patcher allows fewer workers to make longer-lasting, more immediate potholes repairs in the coldest weather. Highway maintenance departments save money and improved safety is beneficial situation for everyone.



SR.NO	PRESENT METHOD	PROPOSED METHOD USING PYTHON 5000
1	Manual by using hand tools	Equipment is comprehensive and single operator can complete the job
2	Material required for the operation like asphalt or aggregate Bitumen, Tack oil is handled manually.	The equipment can carry sufficient stock of asphalt at the desired temperature and also Tack oil.
3	Asphalt prepared in batches is transported without any mechanism to maintain the desired temperature of 90-100 degree centigrade	Equipment's Hopper temperature is maintained at desired level 90- 100 degree centigrade by using Engine exhaust. The temperature maintenance is ensured when the equipment also has external heating facility using electrical power during night halts in case it is necessary.



SR.NO	PRESENT METHOD	PROPOSED METHOD USING PYTHON 5000
4	Temperature of asphalt around 90-100C is most important factor for achieving the desired strength after compacting. Therefore, in the present method, the asphalt is heated using dry material available around the area which is very cumbersome and often ignored as it is difficult to monitor the process.	The equipment incorporated the asphalt heating and temperature maintenance feature. When the asphalt is dispensed into the pothole the loss of temperature is negligible as the travel time of the material from the hopper of the equipment to the pothole is few seconds.
5	Asphalt filled in the pothole is compacted mostly by hand pounding which will not give proper strength all round	The equipment incorporates a compaction roller which is also hydraulically pressurised to get the required uniform compacting strength.



SR.NO	PRESENT METHOD	PROPOSED METHOD USING PYTHON 5000
6	The operation being in open air, the work gets affected by rain and also during peak summer heat.	The equipment has an air-conditioned cabin. So, the operation can be carried on during all weather including rain and hot temperature days.
7	Safety standards are difficult to achieve and workers are exposed to traffic hazards	



SR.NO	PRESENT METHOD	PROPOSED METHOD USING PYTHON 5000
8	The operation is from Dawn to Dusk. Night work is avoided due to safety of workmen and also poor visibility.	The operation can be through day and night. The equipment features powerful focus lights different operators may be employed for each shift and accordingly the work can be carried out for 24 hours. The equipment incorporates, hazard warning lights, beacons to deviate or warn the traffic.
9	In many cases, traffic may have to be stopped to carry out the work and also may need the assistance of traffic police.	the equipment is compact and takes less time to fill a pothole. Therefore no need to disturb the traffic. Also may need any assistance from Traffic Police.
10	Logistics of material and men from site to site is quite cumbersome therefore time is required for execution is long. This affects timely completion of the jobs.	The equipment is a vehicle designed to travel 95 KMPH of max. speed. Therefore moving the resources from site to site is easy and less time consuming. This facilitates timely execution of jobs.

Bython

Python 5000 Specifications

DIMENSIONS

GMWR - 25,950 lbs. Total empty weight: 14,900 lbs. (5818 kg)

Wheel base: 114 m. (250 cm) Overall width: 100 in. (254 cm) Overall Height: 120 in. (305 cm) Overall Length: 256 in. (650 cm)

CAPACITY

Asphalt 5 tons Tack Oil: 35 Gallons (158 titres)

COOLING SYSTEM

Liquid Cooled Permanent Anti-freeze Radiator Front Area (50 Sq. sr. (4194 cu. cm) Radiator Thickness: 3 in. (76 mm) Fan Diameter: 20 in. (506 mm)

AIR FILTER

2 Stage Dry Type

ASPHALT TEMPERATURE CONTROL SYSTEM

Adjustable from ambient temperature to 200°F (80°C)

OPTIONAL AUXILIARY ASPHALT HEAT SYSTEMS

240 volt electrical system.

OR

240 volt electric with 10,000 watt generator

WHEELS

Front wheels: 22.5 x 8.25 in. (572 mm x 210 mm) Rear wheels: 22.5 x 8.25 in. (572 mm x 210 mm)

TIRES

Front Tire Size: 295/70R02.5 Rear Tire Size: 295/70R02.5 Load Range: H, 16 P.R

ELECTRICAL

Alternator DC 12V 130A Buttery DC 12V 3 x 750 CCA

Hom: Standard

ENGINE

Manufacturer: John Diere EPA Tier 3, 4045 HF

Power Rating: 173 BHP (129 kW)

Rated Speed 2400 rpm

Pinak Torque (1500 spm). 476 lb.ft. @ 1500 spm

Displacement 275 cs. in (4.5.L) Displacement 2010 Cm-Road Cestified Engine

TRANSMISSION

Hydrostatic Drive System, Capable of 55 mph (50 km/hr)

FUEL TANK CAPACITY

55 Gallenn (209 Litren)

INSTRUMENTATION

Fuel Gauge, Voltmeter, Tachometer Wirtour Meter, Speedometer W/Odometer, Water Temperature Gauge, Engine Oil Pressure Gauge, Auger Pressure Gauge, Hydrautic Oil Pressure Light

FRONT AXLE

Gross Axie Flating (GAWR) 12,000 lbs (5455 kg) Steelable Drive Axie, Leaf Spring Suspension with air bags

REAR AXLE

Gross Axier Rating (GAWH) 18,000 Lbs. (8182 kg): Leaf Spring Suspension

LIGHTING

Headlights with Hillow Seam & Integrated Signal Lights Combination Turn/Tail/Brake Lights, Back up Lights Side Marker Lights, Rear IO Lights Front & Rear Strobe Lights, Cab Mounted Work Lights

OPERATOR CAB

Pressurized - Low Noise Level Heater and Air Conditioner

STEERING

Tit Telescopic Power Steering

BOUNDS

4 When Dr. Brakes, Hydrautic Asset Power Brakes with Electric Operated Fail-Safe System



>The Python 5000 is environmentally-friendly, saving energy by capturing engine exhaust to heat the asphalt. The standard John Deere engine meets EPA Tier 3 standards and the optional engine is 2010 On-Road Certified.

<The large arrow board clearly alerts traffic to the presence of the Python 5000 when it's on the job.





Bushon

PYTHON 5000 SPECIFICATIONS

10 Reasons to Own a Python 5000

Produces Consistent. **High-Quality Patches**

The Pytture 5000 preduces large lasting patches, equal to the orginal surface quality. It also excells at repairing longitudinal tracks

2 Safe Work Environment

The operator rever leaves the comfort of the dienate-controlled cats. It's safer for other drivers on the road had

Uses Readily-**Available Materials**

The Python 5000 ones of standard but or cold aspired mixes and keeps them at the desired temperature.

- Fast!

The average politine can be patched in about two trinutes.

All-Weather Operation

The Pythin 5000 produces excellent. patitives in both hot and sub-zero

PRESERVE YOUR ROADS. CONSERVE YOUR RESOURCES

The Python 5000 regressents a unique solution for your road repair problems while at the same time helping out with your budget. With maid maintenance costs increasing faster than your budget cars accommodate, the Python 5000 may be the cost savings solution you have been looking for.

This one-person operated, self-contained unit travels guickly to the job - and then quickly and efficiently require potholes and torrelational cracks. It takes the Python 5000 approximately two minutes to prepare a pothole. fill it and compact it into a patch that will last as: long as the surconding payment.

So those small potholes - ones that are usually are left unrepaired. because it's simply not economical to send a crew out to repair them can now be repaired early in the spring before they get to be big. problems. And by doing this, you'll preserve the life of your roads for peans

SAFETY FIRST

The Python 5000 call is: extremely conductable and offers a high level of visibility. But even more importantly. It's safe for the driveroperator. All functions are carried out from the safety of the cab. No longer is the operator exposed to traffic, and no longer is the operator required to perform labour-intensive tasks, or work directly with the auchait.



HOW THE PYTHON 5000 WORKS

The operator fills the hopper with the asphalt mix of choice - either not or cost. The hopper keeps the auphalt at the desired temperature. by cophoring heat from the engine exhaust.

The operator drives the Patrion 5000 up to the pothole and, using in-cab controls, positions the multi-axis working arm over the top of he ticks. All work is clearly visible to the operator. An er jet roughskelds water, dutil, gravel and other dobits from the pothete. roviding a clean contact area for the patching material. Depending on the conditions, the spenitor may decide to spray the area with an

The auger system corner the required amount of asphalt mix from he hopper and drawers it to the potitions. The multi-axis working arms provides the finishing touches, greating a

compacted, finalised patch in an average of text

The operator is then ready to move on to the next pothole, leaving barried a patch that's superior to those created by manual methods.

desired, one of two optional systems can be yant: to keep the repholi at the right temperature.





10 Reasons to Own a Python 5000

Simple to Operate

All functions controlled from milds the climateuntrolled costs by a simple psychick.

Maneuverability, Visibility & Quiet Comfort

The Python 5000 offers insubstitution well-lifty and a powerstature may for operation; no they can also on the job god. terrigin freigh and plant. The highly manayeerable, short whilefluse charges responsement the Aghinest arross accessible

Large Hopper

A 5 list councity hopper life dreatly from the aupholi plunt - and then keeps the material but Bill it's marky to be used:

Highly Mobile

The Pathon \$000 travers from job to job at tighway speeds. And when the operator. sertions at the july, he never has its leaves the safe: chrusto-controlled pati-

Python 5000 Saves \$\$\$ and Makes \$\$\$

Add years to the tife of your roads and Tiple your maintenance productivity by moving from a truck and two- or three-person parchargsystems to the Python 5000.

6 Basic Tools

- 1. Multi-Akis Working Arm
- 2. Air Jot
- 2. Auger & Conveyor
- 6. Scroud trake)
- Tack Oil Applicator



EASY TO USE. EASY TO MAINTAIN

The Python 5000 is easy to operate. The operator doesn't need a commercial driver's Scense, and mineral training is reeded to operate the Python 5000.

transmission, and its powerful turbodensel angine is highly accessible for make of realitymphon.













REVIEWS

American Road Technology & Solutions Private Limited

The Hindu, 17th November, 2013

Ironing out bumpy roads

Pothole-filling machine put on the job on city roads

HMP has embarked on an-Gen experiment to protect est from the result feachenking josether on the perand readed the city.

A posttole-Office quarties one-test by Chief Manager bhermands, decementated only free from ago, the HMP had experimented citis another puticole-IID/19 recision that retird include

About 3,749 km of artestal of oil-should made an ex- fairnish in Bangalore on Sattarday



watching the Pathon 5000 fill potincies throng its

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final Technology and Solumed to livery the symmal level sub-seturial stretich potheir-Provider a point.

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PWD: Diministry II C. Mahopersons, Triosport Menuter tent has possible, at a mode of amount 10,000 has of mode, of and have possibly 70 year most of sector 20,0. Modess Kanner waid the chadrenant One Probable

DNA of flangaiore, 17th November, 2013



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American Road Technology & Solutions Private Limited

Deccan Herald, 17th November, 2013

New technology



Python 5000, the advanced pothole-filling machine, at work on Race Course Road on

DNA BANGALORE

DECCAN HERALD

THE HINDU

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Thank you!