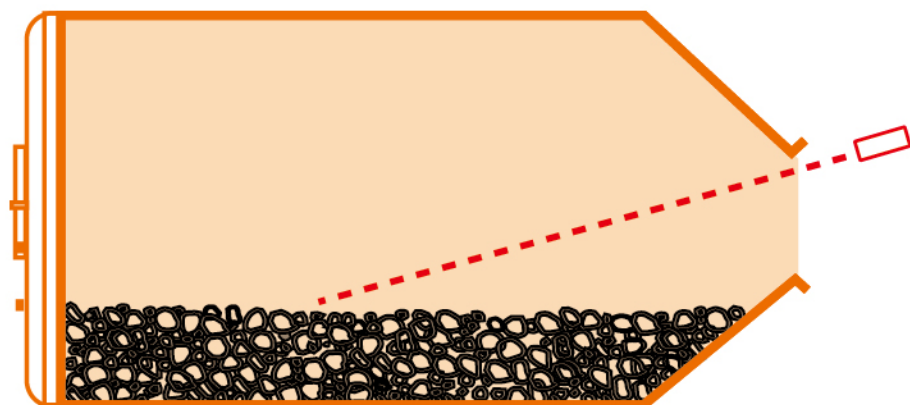
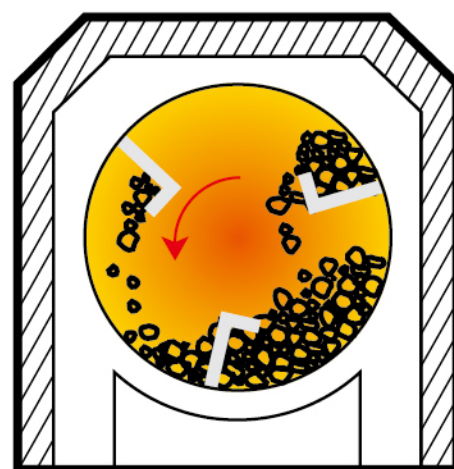


## Asphalt Hopper

- Intermittent rotation control method avoids overheating and aggregate segregation of asphalt mix
- It is capable of heating asphalt mix while the truck is moving (Optional)
- Infrared temperature sensor detects accurately the temperature of asphalt mix inside the hopper



Accurate Infra-red Temperature Sensing System



Rotary Heating Hopper

## Labor and Cost Saving Configuration

- Besides hot-in-place recycling during patching, PM 390 can also 100% recycle pavement asphalt lumps after breaking
- Automatic asphalt-feeding device and roller lifting mechanism save time and labor
- Easy-operated centralized control system



## PM390 at site



## Specifications

Heating Panel	Dimensions	2100mm×1700mm
	Heating System	intermittent radiant heating
Hopper	Type: rotary	Capacity: 1800kg
Vibratory Roller	Operating Weight: 490kg	Centrifugal Force: 16kN
Chassis (Local Standard Model)	Gross Vehicle Weight: 16000kg	Engine Power: 155kW
LPG Tank	Capacity: 1m <sup>3</sup>	
Emulsion Spraying System	compressed air type and thermostatically controlled	

We provide other options to suit different applications. Please contact us for more details. Specifications can be changed without prior notice for continual products improvement.

### Freotech Road Recycling Technology (Holdings) Limited

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Address:

29/F., Chinachem Century Tower, 178 Gloucester Road, Wan Chai, Hong Kong



# PM390 Hot-in-place Patching Vehicle

Faster, Better Quality, Less labor, Low cost, Low Noise  
100% Recycling, Market Proven for 20 years



## Integrated, Compact and Efficient Patching Vehicle

- Rapid Heating Rotary Asphalt Hopper for Emergency Patching
- Rotatable&Transformable Heating Panel for Large Area and Irregular Road Defects
- Compact, High Level of Integration, Simple Operation



Scan QR code for video



## Components

② Heating panel and hydraulic scarifier rakes  
Heat up asphalt road rapidly then scarify

① Walk behind single drum vibratory roller and roller lifting mechanism



③ Asphalt feeding mechanism

④ Electrical control box  
Easy to operate

⑤ Spoil bin  
To hold contaminated asphalt mix

⑥ Chassis

⑪ LPG tank  
Provide enough fuel for the hopper and heating panel

⑫ Rotary heating hopper  
Cold asphalt mix will be rapidly heated to working temperature

⑦ LED arrow board & strobe light



⑩ Emulsion asphalt and rejuvenating agent spraying

⑨ Tool box

⑧ Transformable heating panel  
For irregular cracks & defects repairing

**\* TM390**

Version without Heating Panel



## Freetech Hot-in-place VS Traditional Saw-Break-Fill

### Freetech Hot-in-place Patching

- 🕒 20mins
- 👷 2-3 Workers
- 🚚 1 Hot-in-place Patcher

00:08:00



Heating

00:10:00



Scarifying

00:15:00



Spraying Emulsion Asphalt

00:20:00



Adding New Mix, Leveling and Compacting

# VS

### Process Comparison

- 1 Sawing & Breaking-free
- 2 Dust & Disposal-free
- 3 Integrated & Convenient function
- 4 Noise-minimum
- 5 New Asphalt Saving

### Traditional Saw-Break-Fill

- 🕒 90mins
- 👷 More than 5 Workers
- 🚚 More than 7 Machines

00:30:00



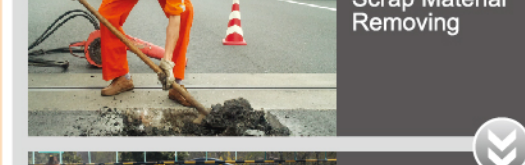
Traditional Saw-Break-Fill

01:00:00



Breaking

01:10:00



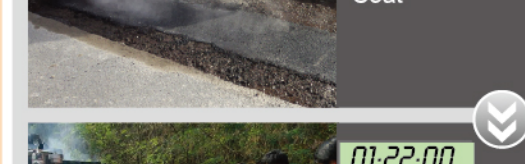
Scrap Material Removing

01:15:00



Cleaning

01:17:00



Spraying Tack Coat

01:22:00



Adding New Mix, Leveling and Compacting

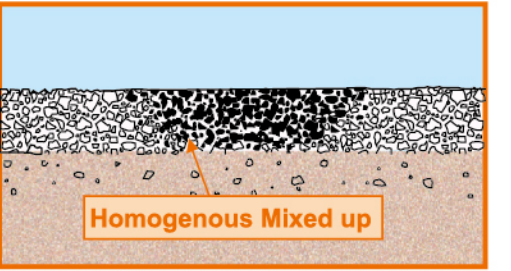
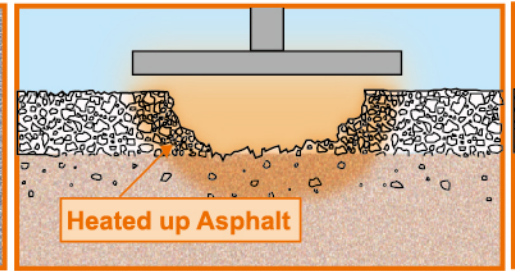
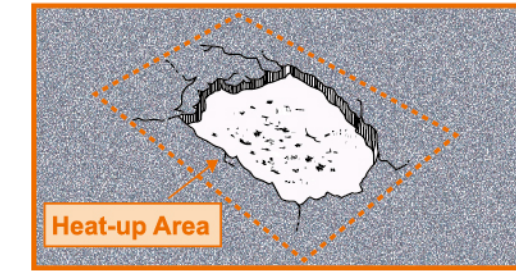
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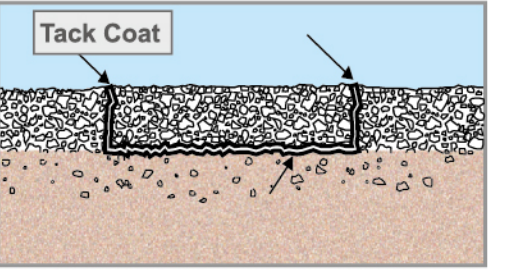
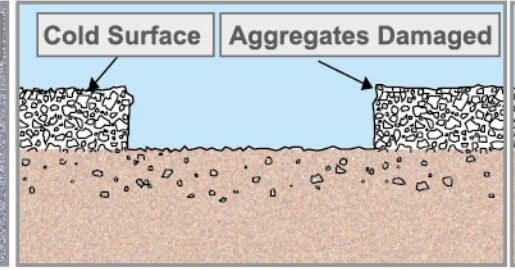
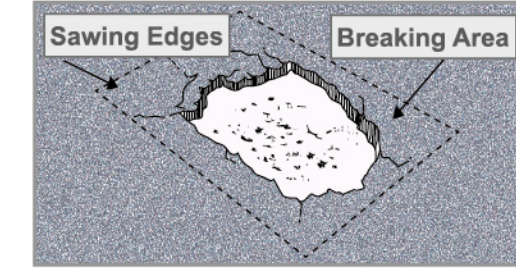
Compacting

## Quality Comparison

### Freetech Hot-in-place Patching



### Traditional Saw-Break-Fill

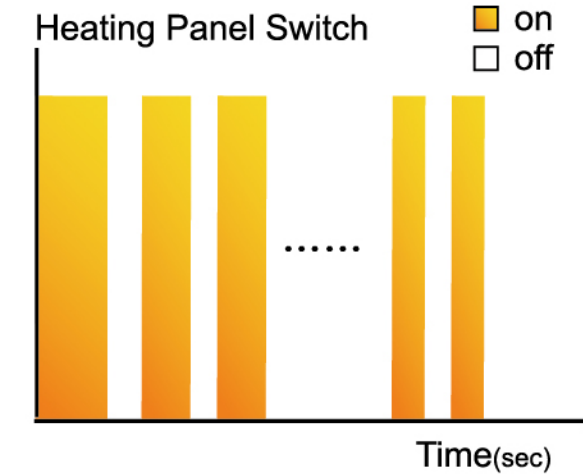


## Features & Benefits

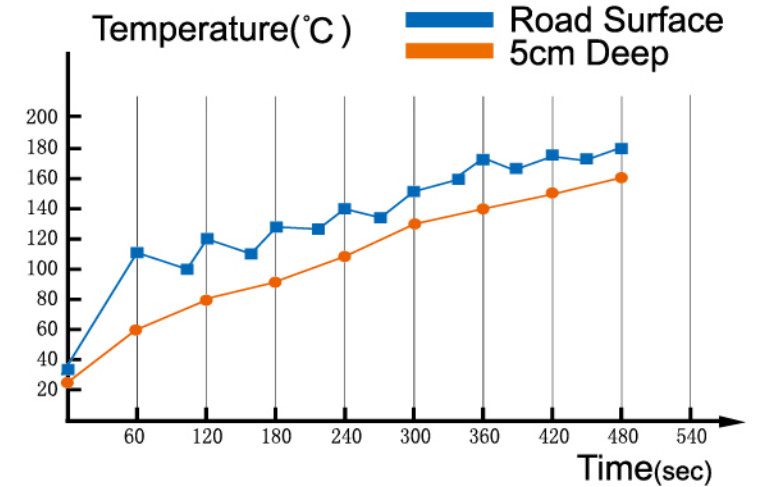
### Heating Panel

- Intermittent radiant heating 4-6 cm deep to avoid overheating or aging, superior to other heating technology

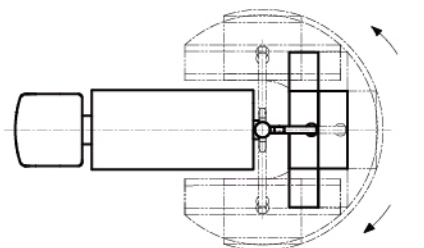
### Freetech Intermittent Radiant Heating



### Time vs Temperature



- \* Optional rotatable & transformable heating panel for irregular cracks & defects repairing



Extended width of 4.8m, rotating & shifting, covering pavement over 26m<sup>2</sup>