



# Hot In-Place Asphalt Recycling



*featuring the*  
**Ecopaver 400**



# Hot In-Place Asphalt Recycling with the Ecopaver 400 Multi-Stage Recycler

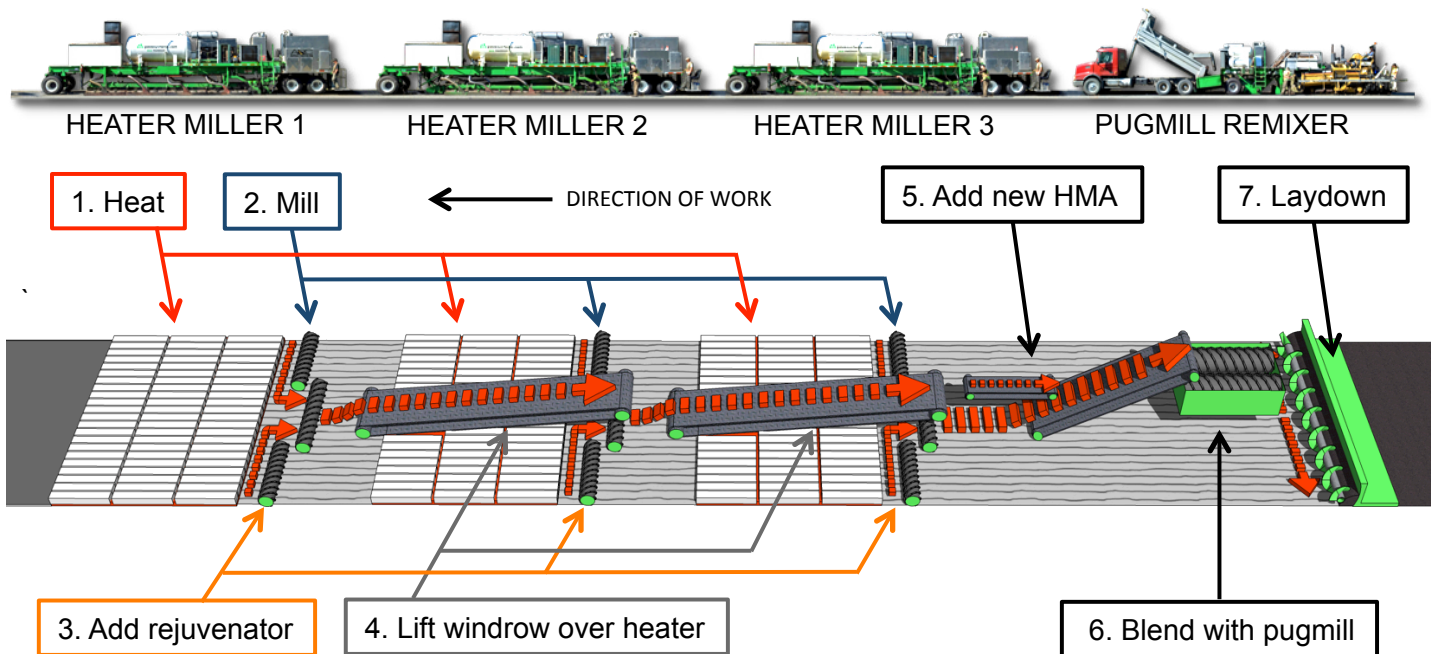
## Hot In-Place Recycling Benefits:

- Cost savings of 30% to 50%
- 100% of reclaimed material is reused
- Greenhouse gases are reduced by 30%

## Ecopaver 400 Advantage:

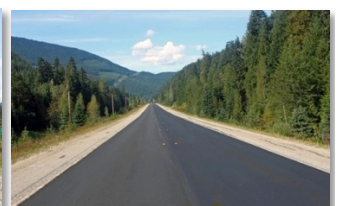
- 50 mm depth v 25 mm of single stage
- Up to 4 lane kilometers per day
- Quality comparable to new HMA

The **Ecopaver 400 Multi-Stage Recycler** performs a pavement rehabilitation method known as Hot In-Place Asphalt Recycling (HIPAR). Enabled by Ecopave's superior Multi-Stage Hot Milling Process it can heat, remove, rejuvenate and relay asphalt pavement to a depth of 50 mm (2") at up to 4 lane kilometers (2.5 miles) per day. A rejuvenating agent is added to restore binder properties and up to 30% new HMA can be added to improve gradation and correct loss of profile due to dips, ruts and potholes.



## HOW IT WORKS

1. Radiant heat is applied to the surface to liquefy the binder.
2. Rotary cutters mill a portion of the desired depth and windrow it to the center.
3. Rejuvenating agents are added to restore binder properties.
4. A conveyor lifts the windrow over the next heater, exposing the lower layer for additional heating.
5. The above steps are repeated two or three times depending on system configuration.
6. New HMA is added to modify the aggregate gradation and improve smoothness.
7. The final steps are laydown and compaction using conventional equipment and methods.



cost savings up to 50%

conserves non-renewable resources

reduced emissions



# The Ecopave Group

## World Leaders In Asphalt Recycling

### The Market Situation

With the days of cheap oil and hot mix behind us pavement managers everywhere are seeking cost effective alternatives to conventional paving methods. The quality and effectiveness of our people and products positions us to provide a world leading solution.

### Introducing the **GREEN TEAM**

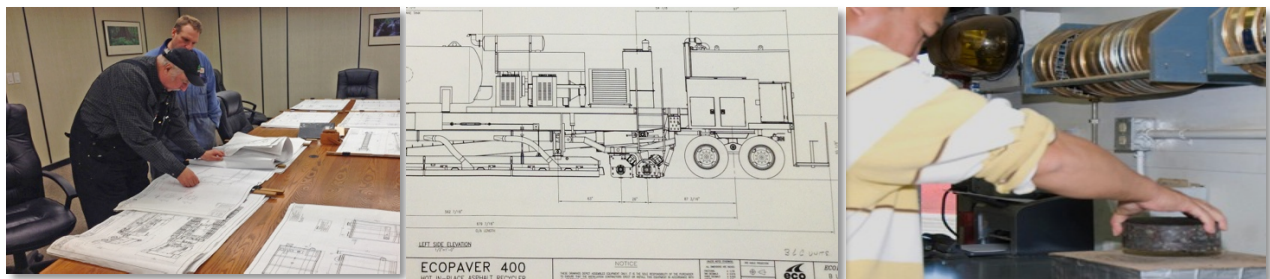
**Field Operations:** In order to best understand and improve the technology we have operated one of our trains in BC, Canada for over 25 years completing over 2500 lane kilometers. The knowledge and experience we have gained in HIPAR operations is unparalleled. Our customers can be assured that we can support them in all situations.



**Manufacturing Operations:** Our experience and "state of the art" manufacturing techniques ensure that each Ecopaver is built to precise design specifications and standards. We have recently doubled our manufacturing capacity.



**Product Design and Development:** We have over 25 years of HIPAR technology design and development experience. Our designers and design partners work using the latest technologies and techniques. A new and improved Ecopaver 400 will be released in 2013.





# Component Specifications of the Ecopaver 400 Recycling System



## Preheater

- Starts the heating process
- On-board Emissions Incineration System
- 10 million BTU Propane Radiant Heating
- Working size is 4 meters x 12 meters
- Transport size is 3.2 meters by 12 meters
- Driven during mobilization



## Heater Miller x 2 or 3 units

- Heats and removes the pavement
- Computerized recycling agent system
- 375 HP C9 Caterpillar Diesel Engine
- 10 million BTU Propane Radiant Heating
- On-board Emissions Incineration System
- Working size is 4 meters x 17 meters
- Transport size is 3.2 meters x 17 meters
- Unit is towed during mobilization



## Pugmill Remixer

- Adds new virgin HMA, blends with Pugmill
- Computerized recycling agent system
- 275 HP C7 Caterpillar Diesel Engine
- 200 TPH Twin Shaft Pugmill Mixer
- Working size is 4 meters x 10 meters
- Transport size is 3.2 meters x 10 meters
- Unit is trailered during mobilization

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