



# *User and Service Manual*

**Roadmender**



**CE**

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## DECLARATION OF CONFORMITY

We,

**Billian(Roadmender)Ireland Ltd**

Of,

**Ballyneale Farm,  
Ballingarry,  
Co. Limerick.**

Declare under our sole responsibility that the product:

**Roadmender**

To which this declaration relates is in conformity with the following standard(s) or other normative document(s):

Following the provisions of the following Directive(s):

**2006/42/EC–Machinery Directive and its amending directives**

for the intended purpose of

**Mixing and heating Roadmender asphalt**

Signed: \_\_\_\_\_ Date: \_\_\_\_\_

**Ballyneale Farm  
Ballingarry  
Co.Limerick**

Place of issue: **Republic of Ireland**

**[1]**

**CE**

### General Description and Intended Use

Roadmender is specifically for use in pothole and utility repairs. Specially prepared bags of asphalt mix are heated in the drum to 150 degrees centigrade (302 degrees fahrenheit). The drum is then hydraulically tilted to tip out the product into a wheelbarrow for use. The maximum load that the drum can take is 250kg.

Roadmender is only intended for use by trained operators as described within this Manual. All other uses fall outside the Manufacturer's recommended operation and are performed at the Operators' own risk.

Operators interacting with Roadmender must be aware of the instructions in this User and Service Manual and must wear the correct Operator Personal Protective Equipment (see page 9).

Roadmender must NEVER be left unattended when in use.



### **Installation Instructions**

Roadmender is delivered in an assembled state. Before it can be used, it should be setup and prepared as per this Manual's instructions.

Roadmender must only be operated when permanently fixed or temporarily secured to a double axle trailer so as to ensure that there is no movement whilst in operation.

### **Recommended Maintenance**

The general maintenance of Roadmender includes:

- Greasing of all moving parts including grease nipples.
- Checking oil and water levels in engine.
- General Engine/Machine maintenance.
- Ensuring nozzle in burner is kept clean.
- Testing emergency stops on a regular basis to ensure they are functioning correctly.

## General Operation

The operation of Roadmender involves the filling of the drum with 20kg degradable plastic bags of specially prepared asphalt mix. The maximum load that the drum can hold is 250kg.

When starting from cold, allow engine to heat up for five minutes before loading the drum.

The burner is hydraulically lowered into position at the front of the drum and fired up.

**ALWAYS ENSURE THAT THE DRUM IS ROTATING ONCE THE BURNER HAS BEEN FIRED UP.**

Allow the drum to revolve and mix the product until it reaches a temperature of 150 degrees centigrade (302 degrees fahrenheit). This takes approximately 6 minutes depending on the ambient temperature.

Once the mixture has been heated to this temperature the burner should be switched off and returned to its transit position.

The drum is then tipped forward by means of two hydraulic rams so that the performance grade asphalt can be poured in to a wheelbarrow for use.

ALWAYS	Ensure that the Isolation Switch, located next to the battery is turned off after shutting down Roadmender
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NEVER	Leave Roadmender unattended whilst in operation
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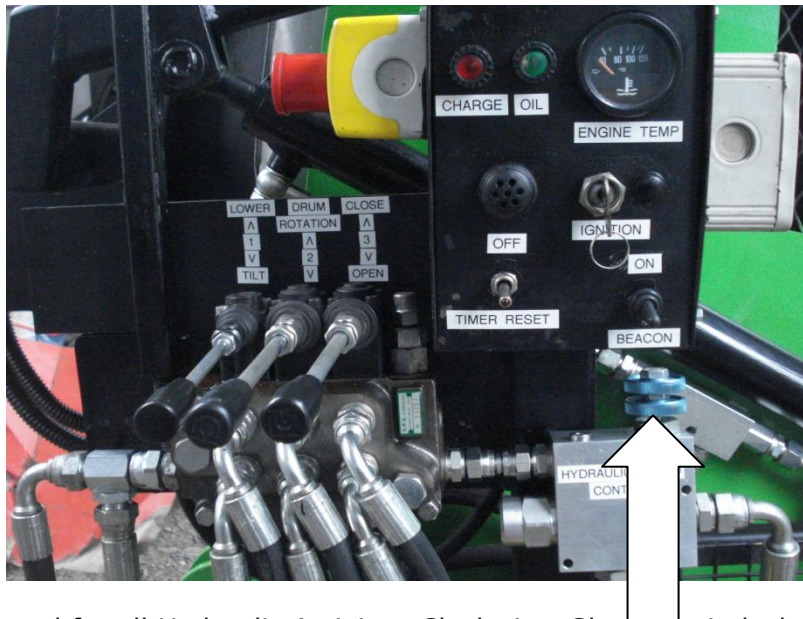
### Operating Roadmender

- Turn on the Isolation Switch located next to the battery in the engine compartment.
- Start engine with ignition key and allow it to warm up for five minutes.
- Turn on Beacon.
- Open the hydraulically assisted door and burner (lever 3).
- Fill the drum with the required number of 20kg premixed bags.
- For optimum performance, only eleven bags should be heated at a time.



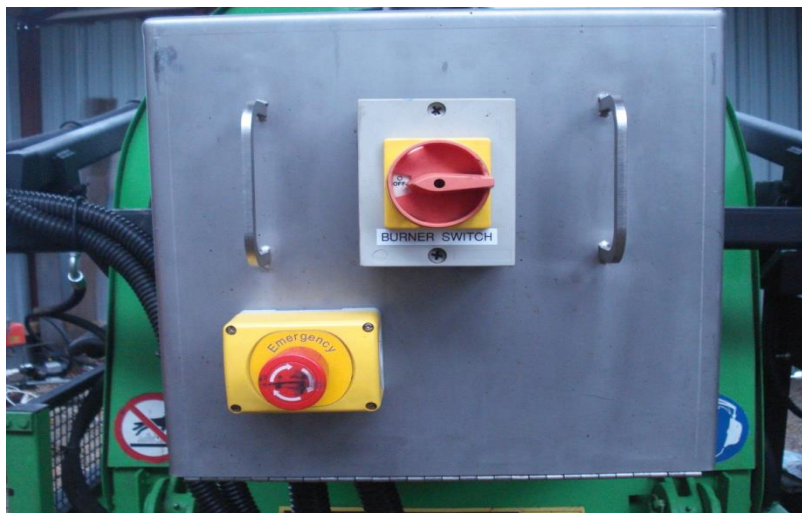
- Close the hydraulically assisted door and burner (lever 3). The burner will not fire up until it is firmly closed.





(Speed Control for all Hydraulic Activity. Clockwise, Slow. Anti-clockwise, Fast)

- Lift rotation lever (lever 2) to start drum revolving.
- Switch on Timer Reset.
- Turn on Burner Switch.



- Periodically check the temperature OF THE MIX

Raise the door (lever 3) which will automatically turn off the burner.

Stop drum rotation (lever 2).

Point a laser AT THE MIX and not at the surrounding steel.

Lower the door and burner back into the closed position (lever 3), which will automatically re-start the burner.

Re-start drum rotation (lever 2)



- After approximately 6 minutes (depending on the ambient temperature), when the mixture has reached the required temperature of 150 degrees centigrade (302 degrees fahrenheit), the burner should be raised (lever 3). If thick white smoke is escaping from the chimney the mix has been over heated.
- Stop the drum revolving (lever 2) and switch off the Burner Switch.



- Tilt the drum forward (lever 1) and restart drum rotation (lever 2) in order to pour the heated mixture into a wheel barrow.



- In case of emergency, push either of the Emergency Stop Buttons to shut down the engine.
- To restart Roadmender, reset the Emergency Stop Button by turning it to the right.
- To shut down Roadmender, turn off the Ignition and turn all switches into the OFF position, including the Battery Isolation Switch.
- Roadmender must NEVER be left unattended when in use.

### Timer

- The Timer is set to turn off Roadmender automatically after a certain length of time, in the event that it is inadvertently left on. The Timer should therefore not be tampered with or changed in any way.



## Safe Operation

### Safe Operation of Roadmender

- Operators' competence should be approved through an operator sign-off sheet.
- Follow the procedure set out on pages 4-8 to ensure safe operation.
- Never overload the drum. (Maximum load 250kg.).

**Note:** Ensure that the drum is cleaned out after use to avoid mixture solidifying and collecting on the inside of the drum. If the mixture becomes stuck to the inside of the drum heating time may be affected and when the drum is rotated Roadmender may be out of balance and vibrate dangerously.



Protective  
Clothing

### Operator Personal Protective Equipment (PPE)

Operators should wear protective clothing when using Roadmender.



Hand  
Protection

Protective gloves



Foot  
Protection

Protective footwear



Wear ear  
protectors

Hearing protection



HALF FACE MASK  
RESPIRATOR  
MUST BE WORN

a half face mask to protect from fumes



Eye protection  
must be worn

eye protection

## Machine Labeling



**Authorised  
personnel only**

UNLADEN WEIGHT:	800KG
MAXIMUM LOAD:	250KG



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Limited**

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