

RAYOLITE USER GUIDE

HSA Bitumen Applicator

HSA Asphalt Crack Sealing Machine

Specification

Model	HSA
Generator Model	YAMAHA ET950 (Subject to availability)
Walking Mode	Hand Push
Material Tank	Volume 60 Litre
Fuel Type	Liquefied Gas
Heating Medium	Conduction Oil
Election Speed	Adjustable
Net Weight	165 kgs
Packing Size	1500mm x 800mm 1250mm
Unit Colour	Yellow
Lead Time	4 to 6 weeks (Subject to availability)



1. Operation

1. Open the LPG valve, use electronic ignition light the liquefied gas stove located under the front of the machine body (front with observation hole). Start heating, adjust the flame in the stove, and adjust the opening size of the valve to adapt the combustion, (opening size is too big may cause a poor combustion or extinguishing, opening size is too small may cause red flame or poor combustion.)

2. Put the clean joint sealant into the melting furnace (about 20kg each time, or according to required amount), cover on the furnace cover. Normally, should feeding the material moderately according to the using time. When continuous use, it is better to maintain a certain finished material in the stove, which can improve the thermal efficiency, and improve the melting efficiency greatly.

3. Pay attention to the thermometer temperature, the temperature shows on the thermometer can't exceed the allowable temperature of caulking material. If exceed the allowable temperature may cause caulking material harden.

4. Start the generator well injected mixed oil, follow the generator instructions to supply power for the control and heating system.

5. When the temperature of the crack filling material meets the requirement, firstly, open the power switch located on the electrical control box, press the heating switch in the middle, about 5 minutes later, press the pouring switch, then open the governor switch and speed potentiometer to take a trial crack filling to make sure the discharge nozzle normal pouring out material.

If the motor rotates tired or slowly, which indicates that the gear pump or delivery line temperature is low, you should immediately turn off the pouring switch, stop the motor, repeat the above operation or increase liquefied gas flame to increase the temperature.

6. Push the crack sealing machine to the side of expansion joint, let the discharge nozzle 3 be directed at the cleaned expansion joint, press the pouring switch, the motor rotates and the crack pouring start, then push the machine forward, match the advancing speed and the size of the expansion joints, the amount of discharge can be adjusted by replacement of discharge nozzle.

2. OPERATION CAUTIONS

1. Machine power source is two-stroke gasoline generator, please operate this machine according to operation manual strictly.

2. This machine use 30# thermal oil, will reduce thermal oil after repeated use, please remember to add. The thermal oil is injected into side of mounting hole, the standard thermal oil level is 1/3 of the tank, please do not make the air flow blockage.

3. Sealing pause time do not more than 5 minutes, if pause time is too much longer, the sealing material in pipeline will be solidified.



4. In the course of operation, there are three situations when discharging mouth do not discharge material:

- A. The sealing material in the tank was run out or the temperature is not high;
- B. The former filter of gear pump was blocked by impurities, material couldn't flow into gear pump;
- C. The discharging mouth was blocked (the temperature discharging mouth heating is not high).

Please check according to the above situation.

5. When the sealing material melting will send out gas, which is harmful to our body, please cover up the furnace cover, operator should wear face mask, gloves and other protective things.

Attention: In order to ensure the machine long lifetime and security, when use this machine for the first time, the asphalt content may not less than 1/ 2 of the capacity.

Rayolite Pty Ltd

Address: 237-239 Berkeley Rd, Unanderra, NSW 2526

Postal: PO Box 1156, Unanderra, NSW 2526

Phone: [\(02\) 4271 5056](tel:0242715056)

Mobile: [\(0407\) 473 889](tel:0407473889)

Email: sales@rayolite.com.au

The facts stated and the recommendations made are based upon data appraised in our own laboratories and our own research and that of others. Due to possible differences in specifications, application and interpretation of results, no guarantee can be made of these products and they are sold without warranty, express or implied in law or in fact upon the condition that the purchasers make they own test of the products or samples thereof to determine the suitability of the products for the purchasers intended use. Statements concerning the possible use of products or processes are not recommendations or permission to use the same in a manner that would infringe any patent or to practice as patented invention without a licence.

Published Date: 24/11/2025