

# Tsubaki Automatic Lubricator for Roller Chains

## Instruction Manual

Thank you for choosing the automatic lubricator for roller chains.

Please be sure to read this instruction manual to ensure proper use of the automatic lubricator for roller chains.

### 1. Specifications

Model No.: SFM68

Power supply: H<sub>2</sub> gas pressure (dry cell battery)

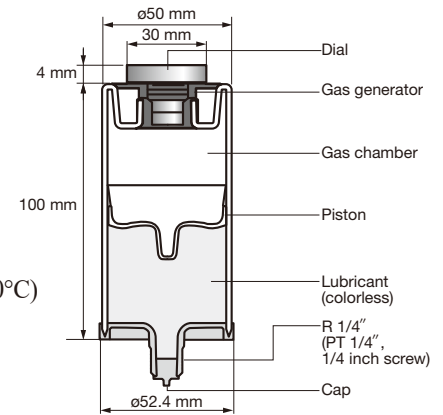
Operating pressure: Max. 0.5 MPa

Volume: 125 mL

Operating temperature range: -20 to 55°C

Discharge period: 1 to 12 months, stepless (indoor atmosphere with ambient temperature of 20°C)

Lubricant: Lubricant for food processing machinery



### 2. How to Use

#### (1) Cut off the protruding yellow nipple with a knife.

(If you are using the optional brush, install the brush after cutting the nipple.)

#### (2) Set the dial to "1" with a flathead screwdriver and leave it there until the lubricant is dispensed.

There is a time lag between when the dial is turned to "1" and when lubricant is dispensed.

(It takes about 1 day with the dial at "1," and about 3 to 5 days if the optional brush is installed.)

#### (3) Set the dial to the desired discharge period.

For a discharge period of 12 months, the dial is set to "12" and the discharge volume is approximately 0.014 mL/h. (20°C atmosphere)

For a discharge period of 6 months, the dial is set to "6" and the discharge volume is approximately 0.029 mL/h. (20°C atmosphere)

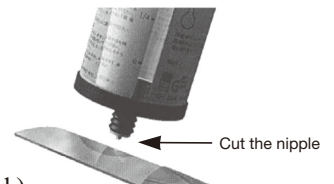
\* To stop lubrication, set the dial to "0," and to resume, set the dial to "1 to 12."

#### (4) Thoroughly lubricate the lubrication point manually in advance.

#### (5) Mount the lubricator at the lubrication point using a clamp (optional), etc.

(The clamp has an M4 size mounting hole.)

#### (6) Periodically check for proper lubrication after lubrication has started.



### 3. Installation Method

When using the optional brush, make sure that lubricant penetrates the gap between the outer and inner plate on the sag side of the chain.

At the same time, lubricate between the bushing and roller. The brush should be applied lightly to the plate of the chain.

When using the optional clamp, drill a tapped hole in the bar, etc., and secure it with an M4 bolt, or drill a through-hole through which an M4 bolt can pass, and then secure it with a bolt and nut.

Note: This products is recommended for use when brush or drip lubrication is required. Do not use for roller chains used in the "oil bath" or "forced lubrication", as this will not provide sufficient lubrication.

[Recommended Operating Range]

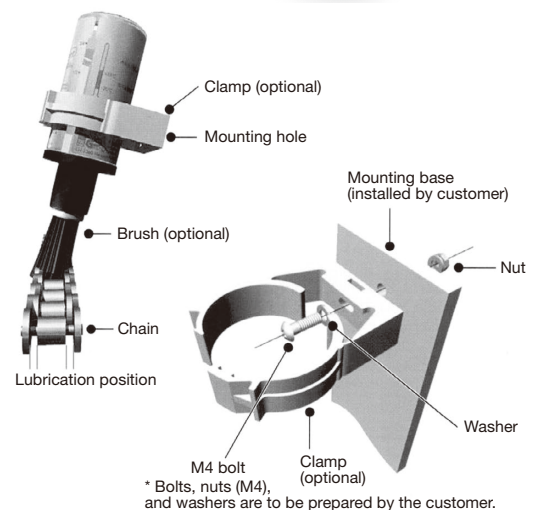
Chain size: For #40 to #100 drive chains

#40 to #100

For #2040 to #2100 small size conveyor chains

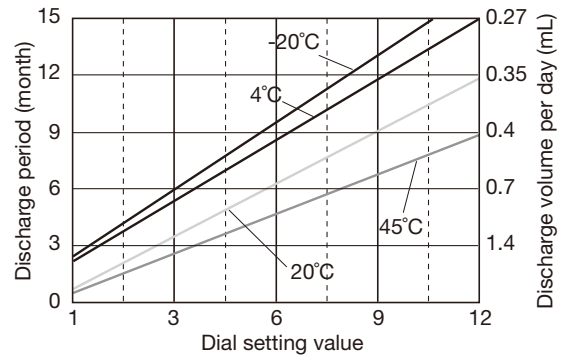
Chain speed: 50 m/min or slower

Current lubrication method: Brush or drip lubrication



## 4. Operating Precautions

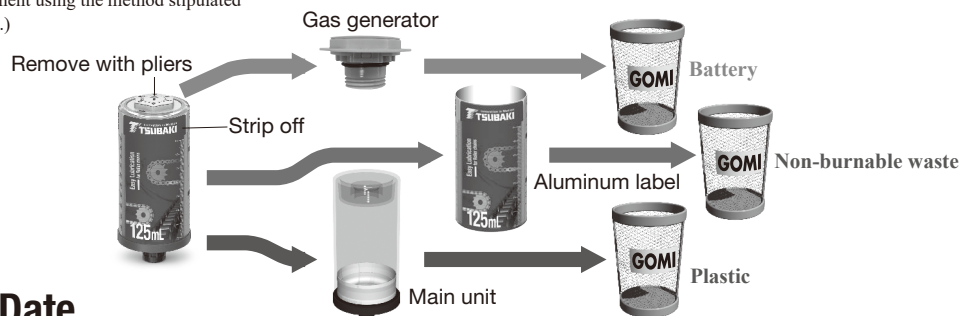
- The amount of oil dispensed varies depending on ambient temperature. The amount of oil released will be lower when the temperature is lower than room temperature, so the dial should be set to a lower value (shorter than the desired discharge period). (See the diagram on the right.)
- The length of the lubrication path (piping) should be less than 0.5 m with an inner diameter should be 6 mm or more. The path should also not be segmented.
- Do not use near fire or in places directly exposed to heat.
- To stop the discharge of lubricant while it is still in progress, return the dial to 0 (zero).



## 5. Disposal after Use

Remove the gas generator (dial section) from the main unit and dispose of it. The gas generator is screwed into the main unit, so remove it with pliers, etc. After removal, dispose of it as a battery without disassembling it. Do not remove the gas generator near fire.

(Dispose of each component using the method stipulated by your local authorities.)



## 6. Expiration Date

The battery (gas generator) has a limited service life. Its use should start within 2 years from the date of manufacture.

(Example of date of manufacture)

Batch: 1234567  
MFD: 2022-12-05  
Year Month Date



### Warning

Observe the following points to prevent hazardous situations.

- Observe the general standards stipulated in Part 2, Chapter 1, Section 1 of the Ordinance on Industrial Safety and Health.
- When installing, removing, or performing maintenance and inspections:
  - Perform the work according to the instruction manual.
  - Always turn off the equipment before performing these tasks, and make sure that the switch is not accidentally turned on again.
  - Always wear appropriate clothing and protective gear (such as safety glasses, gloves, and safety shoes).
  - Be sure to stop chain operation when starting or stopping lubrication.
- Do not use near fire or in places directly exposed to heat.
- Do not remove the gas generator near fire.
- Do not allow any shock to be applied to the automatic lubricator or optional parts.
- Do not modify or alter the product.
- Do not use this product for any purpose other than lubrication.



### Caution

Observe the following points to prevent accidents.

- Handle the automatic lubricator with a thorough understanding of its structure and specifications.
- Before installing the automatic lubricator, inspect it to confirm that it has not been damaged in transport.
- After lubrication begins, check periodically to ensure proper lubrication.
- When handling more than the designated amount, do so at a manufacturing, storage, or handling facility that satisfies the standards required by law. (Hazardous material Category IV, Class IV petroleum under the Fire Service Act.)
- Store in a cool, dark, well-ventilated place.
- During installation and use, do not perform any extraction, air application, etc. that may cause the surface of the unit to be charged with static electricity.
- When cleaning the unit, move it to a safe working area and use methods that do not generate a static charge.

This product is designed for use within Japan.