

BLuebe "BK" external MQL Applicator

User's guide

TABLE of CONTENTS

1. IMPORTANT NOTICES
2. OVERVIEW
3. PARTS
4. HOW to FILL LUBRICANT
5. HOW to USE

FUJI BC Engineering Co., LTD.

3-1, Shioiri-cho, Mizuho-ku, Nagoya, 467-0851, JAPAN

TEL: (+81)52-819-5411 FAX: (+81)52-819-5410



Ver.4.4 Nov.,2025

IMPORTANT NOTICES

- 1. Use our genuine Bluebe lubricants [LB-10(available as LB-6000), LB-8].**
It may brake or damage to rubber seal of BK applicator inside to use unsupported lubricants. Improper lubricant usage would cause applicator brake and any leakage and/or cause serious accident such as injury or death.
- 2. MOUNT** BK applicator with screws or magnets on upper plate around machine **vertically and horizontally**. Mist would not come out stably when BK stands at an angle. It would not be divided into each nozzles even when 2 nozzles equipped.
- 3. DEDICATED Nozzles** required for BK applicator.
All the nozzles in our products does not have compatibility with BK applicator. Please contact our sales representative to enquiry changing nozzles.
- 4. DO NOT fill lubricant above 400mL.**
Cannot control and grant consumption of BK applicator with lubricant filled 400mL above. With the overfilled situation, please drain lubricant to follow procedure "How to drain lubricant" as page 5.
- 5. Select solenoid valve to fulfill 1) or 2) options below to turn on and off BK applicator.**
It may brake or damage to solenoid valve because mist flows back to applicator when not selecting either options.
 - 1) Use **2-port solenoid valve** because exhausted port would cause lubricant backflow.
 - 2) Insert **"CHECK VALVE between BK applicator and solenoid valve"** when unavoidable circumstances to use solenoid valve with exhausted port.

OVERVIEW

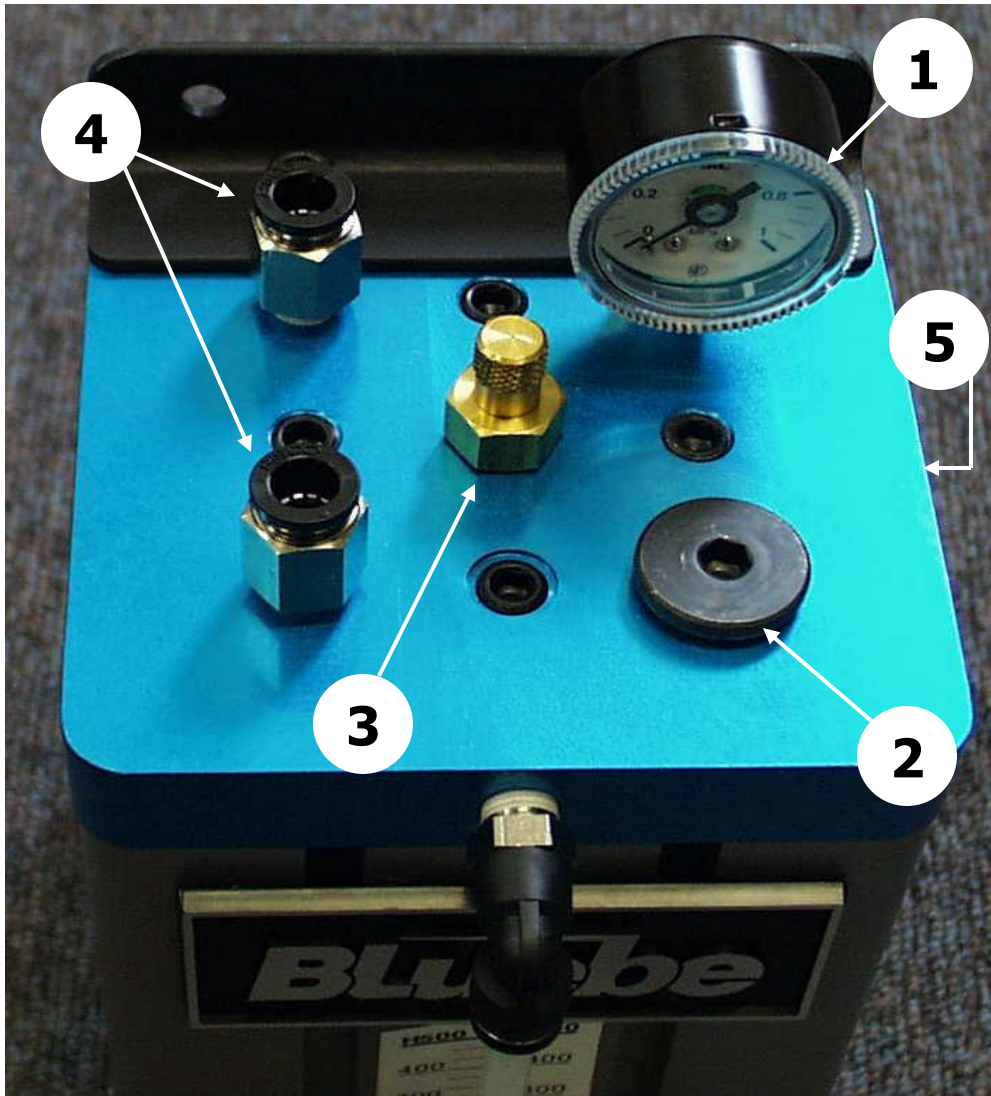


Front view

SPECIFICATIONS

- **Tank capacity:** max 400 mL
- **Nozzles:** Dedicated nozzle for BK required.
- **Feature of controlling inner pressure:**
Adjustment valve equipped to prevent mist from smoking and to control lubricant consumption.
- **Supplied Air:** 0.4MPa
- **Flow rate:** over 120L/min(ANR)
(Strongly recommended to fulfill 200 L/min(ANR))
- **Supported Fluid:**
Bluebe genuine lubricant **LB-10** (available as Accu-lube **LB-6000**), **LB-8**.
- **OPTION:**
ON/OFF solenoid valve, Air filter regulator,
Magnets for mounting applicator.

PARTS



Upper view

- 1. Pressure gauge for inner pressure**
- 2. Lubrication supply port (plug)**
- 3. Needle valve for inner pressure control (mist control)**
- 4. Mist outlets**
Connected to dedicated nozzles with $\varnothing 8$ (O.D.=8mm) tubing
- 5. Air inlet port (Rc1/4)**

HOW to FILL LUBRICANT

- 1. Please make sure pressure gauge shows zero** on upper plate before pulling lubrication supply plug.
- 2. DO NOT fill lubricant over "H" line.**
Please fill lubricant "SLOWLY" with funnel not to spill out because it takes time to reflect actual amount of lubricant on fluid level gauge.

※Case: Oversupplied of lubricant

DRAIN lubricant when supplied lubricant is higher than H line.

PLEASE make attention to pull tubing of liquid level line. Incorrect use may brake or damage to O-ring of fitting inside and tubing bended.

[How to drain lubricant]

- (1) Take off tubing of liquid level gauge from upper side of L-shaped fitting.
- (2) Rotate bottom side of L-shaped fitting.

HOW to USE

ATTENTION: MIST starts to come out when lubricant filled and air supplied.

1. How to control and adjust concentration ratio of mist and air.

- ① Supply air with 0.4MPa.
Rotate needle valve counterclockwise to adjust inner pressure gauge showing 0.2MPa.
This is STANDARD concentration ratio of mist and air
- ② Concentration ratio of mist is too high, please rotate needle valve counterclockwise from standard state.
Concentration of air raises while that of mist decreases. The applicator cannot raise concentration of mist.
- ③ Above steps would cause supplied air pressure decrease.
Please keep supplied air pressure 0.4MPa when mist coming.

2. Cycle time is too short to turn on and off the applicator.

The applicator has delayed response time from air being supplied to raise inner pressure up to 0.2MPa. There would be possibility cycle time is too short to reach inner pressure to 0.2MPa for some reasons such as cutting process being very short.

Strongly Recommend to keep enough time in advance to raise pressure because mist comes out insufficient and unstable state under the situation.

Warranty

- Use of lubricants other than our genuine oil products will void the warranty.
- If any malfunction or equipment defect occurs within one year of delivery due to causes attributable to our design or manufacturing, we will provide repair services or replacement parts.
- Do not disassemble any equipment components unnecessarily. Unauthorized disassembly will void the warranty.
- The accuracy and cutting performance of products processed using this equipment cannot be evaluated based solely on the equipment itself. Therefore, such outcomes are not covered under warranty.

