Great long-seller for cutting lubrication

The definitive solution for tapping lubrication











Magic Cut e-mist

Mist lubrication for cutting





Features

- · PROLONG TOOL LIFE by spraying cool mist.
- REDUCE OIL CONSUMPTION by atomizing the minimum amount of lubricant.
- Simple operation; just apply compressed air and set adjusters.
- Light, compact design, made of aluminum, enables uncluttered setup of multiple units.

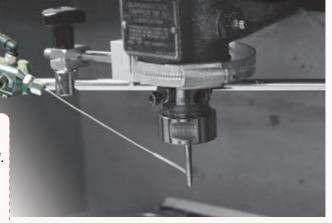
TAP TOUCH Automatic Tapping Lubricator

Drip lubrication, without misting

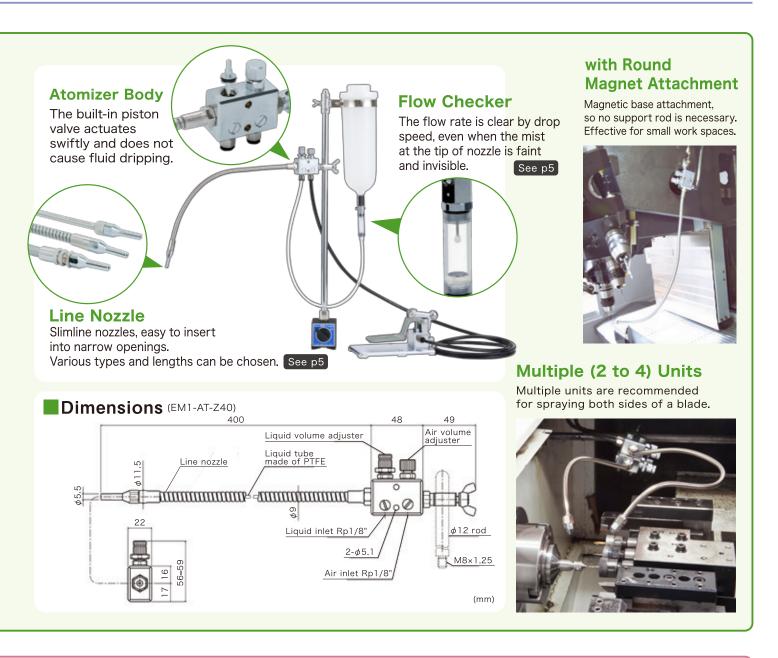
TAP TOUCH

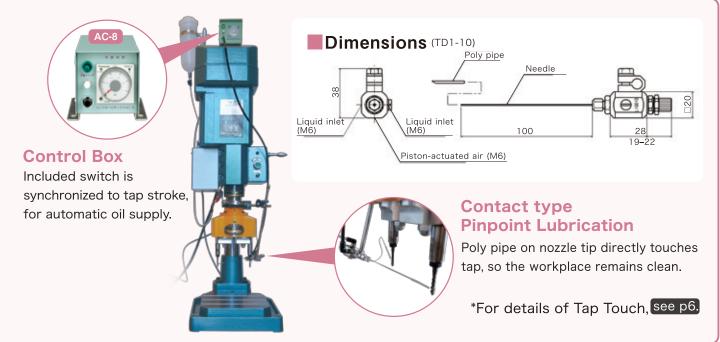
Features

- Drip-feed system, use only for rolling tap up to M6*.
- Control the drip timing automatically using the control box.
- · Drop-by-drop level fine adjustment.



*For rolling tap over M7 or cutting tap, please use Magic Cut.

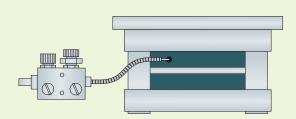




A wide range of applications, beyond cutting lubrication

Magic Cut is an MQL device, that cools the tool with a cold mist, created by atomizing a tiny quantity of oil, around 5-60 mL/h. By adjusting the volume of liquid and air, it is possible to simultaneously lubricate and blow away the cuttings. Attaching an optional cap or pressure-feeding liquid, enables a variety of lubrication tasks by spraying.

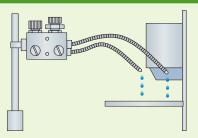




Mist can be sprayed directly inside a mold by inserting the tip to the joint of the mold.

*The liquid needs to be pressure-fed.

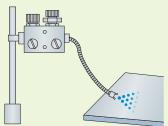
3 Drip lubrication (with Short air nozzle)



By closing the air adjuster completely, drip feed lubrication is also possible.

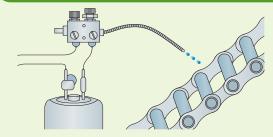
*Please use a 3-port air valve.

2 Press lubrication (with Fan pattern nozzle)



To spread mist, e.g., applying lubricant to sheet metal, a fan pattern nozzle is effective.

4 Water pistol-like lubrication (with Short air nozzle),



If the air adjuster is completely closed and liquid pressure is increased, it is possible to spray a liquid a slightly distant object, similar to using a water pistol.

*The liquid needs to be pressure-fed. Use a 3-port air valve.

5 types of Air Nozzles



Air Nozzle

(code 19500) Standard type. Mist can be sprayed on a blade tip with pinpoint accuracy.



Short Air Nozzle

(code 29135)
With low-pressure air a beautiful mist can be created. This is suitable for lubrication tasks.



Oil Hole Air Nozzle

(code 29137)

The nozzle shape enables insertion in a one-touch fitting for $\phi 6$ mm tube. No mist leaks out.

The liquid needs to be pressure-fed.



Fan Pattern Air Nozzle

(code 29136)

Enables to spread mist. Suitable for lubrication tasks.



Fan Nozzle Attachment

(code 14001) It is used by placing it over a standard air nozzle. Air nozzle and short air nozzle are available in thick nozzle specifications.
 (Use in combination with φ1.2 liquid nozzle*.)
 *standard liquid nozzle: φ0.6 mm

*Fan pattern air nozzle is limited in terms of installation direction, but suitable for Z pipe of at least 40 cm. For other applications use 14001.

Oil



Model	Size	Code	Classification	Features	Suitable Materials
AM-30	4L 18L	MOL-AM30-04 MOL-AM30-18	Refined mineral oil	Excellent workability. Also resistant to seizing.	Steel, Aluminum, Non-ferrous metals
AM-50	4L 18L	MOL-AM50-04 MOL-AM50-18	Refined natural vegetable oil	Not hazardous to human health or the environment.	Steel, Aluminum, Non-ferrous metals
AM-70	4L 18L	MOL-AM70-04 MOL-AM70-18	Oil-in-water emulsion	10 to 20 times thinning. Excellent cooling performance.	Steel, Aluminum, Non-ferrous metals

Standard Set ■EM1-CM-Z40 E-1 Ε В -3



*There are three types: None, A and FD.

Standard Set Contents (EM1-CM-Z40)

A Atomizer (1 line) EM1-AT-Z40 A-1 Atomizer body (1 line) 15001

A-2 Line nozzle (Z type, 40 cm) FN-Z40

B Tube fitting R1/8" $\times \phi$ 6 mm 18190 (\times 2)

C Rod PL12X480

D Ring hanger 14009

E 0.5 L Container (with Flow checker) 14161

E-1 0.5 L Container 14160

E-2 Flow checker for 1 line atomizer

E-3 Fluid tubing $\phi 4 \times \phi 6$ mm 18516

F Air tubing $\phi 4 \times \phi 6$ mm 18506

G Magnetic base MB-1

H Foot air valve C-50E





▲Tube-type Flexible Nozzle

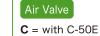


*Enter "-1.2" for thick nozzle.



*Enter "-1.2" for thick nozzle.





U = with U-4E

X = None



▲Foot Air Valve C-50E Valve U-4E *While the upper roller is pushed, air comes out.

Fixing

 $\mathbf{M} = \text{with MB-1}$

V = with VS-1X = None



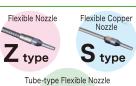
◀ Vise VS-1

Type

Line Nozzle

Z = Z type S = S type

 $\mathbf{C} = \mathbf{C}$ type



Length Line Nozzle

Z type 20 cm, 30 cm, 40 cm (standard), 50 cm, 60 cm

Stype 20 cm, 30 cm, 40 cm (standard), 50 cm, 60 cm, 80 cm

C type 50 cm, 100 cm, 150 cm, 200 cm

Air Cap

None = Air Nozzle (standard) A = Short Air Nozzle

FD = Fan Pattern Air Nozzle

T = Oil Hole Air Nozzle

See p4.

Container



0.5L, with Hanging wire

Length 255 mm, ϕ 80 mm with Tube fitting (R1/8"× ϕ 6 mm)



Length 380 mm, ϕ 104 mm with Tube fitting (R1/8"× ϕ 6 mm)

Code CT-E2.0

2.0L, with Hanging wire Length 470 mm, ϕ 133 mm with Tube fitting (R1/8"× ϕ 6 mm)

Container CT-E 0.5 C1

Flow Checker

0.5L 1.0L 2.0L

Flow Checker

C1 = For 1-Line Atomizer, C2 = For 2-Line Atomizer C3 = For 3-Line Atomizer, C4 = For 4-Line Atomizer

None = without Flow Checker

A fluid tubing is included only with containers that have flow checkers.

Flow Checker



For 2-Line Atomizer Code 14202 connected to φ4 × φ6 mm

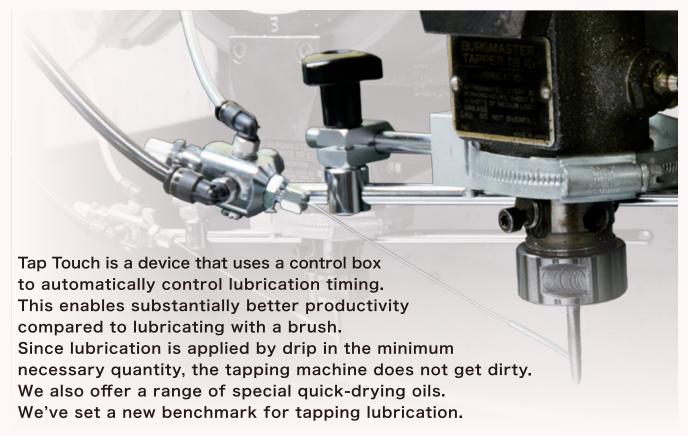
fluid tubing

For 3-Line Atomizer Code 14203 connected to φ4×φ6 mm fluid tubing

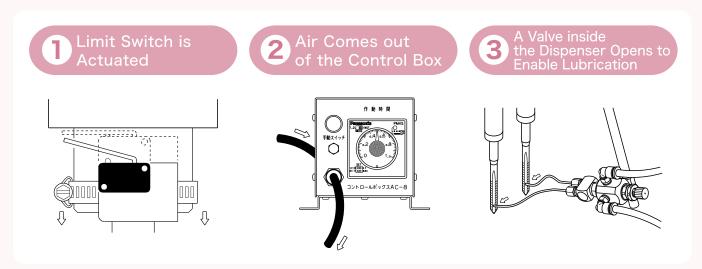
For 4-Line Atomizer Code 14204 connected to φ4×φ6 mm fluid tubing

These cannot be used for highly viscous oil.

■New standard: fast, convenient, and dirt-free



■Automatic Lubrication Linked to a Control Box.



*If using an air valve other than AC-8, make sure to use a 3-port type. *Tap Touch is a mist-free drip-feed system.

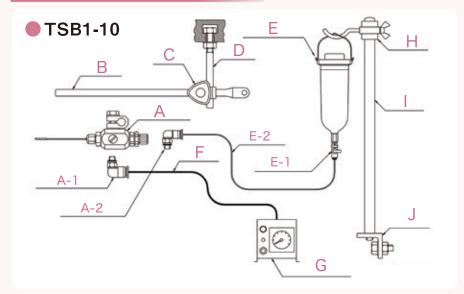
Tapping Oil



	Model	Size	Classification	Features	Suitable materials
1	FUSO-631F-04	4L	Refined isoparaffinic	Complete-evaporation type. Leaves no oil on surfaces. Colorless clear liquid.	Zinc-coated steel, steels, aluminum, etc.
	FUSO-631F-18	18L	hydrocarbon solvent		
	FUSO-624FR-04	4L	Contains synthetic sulfurized	Leaves only a very thin film of oil. Sulfur contents reduce "galling and seizing."	Stainless steel, carbon steel, zinc-coated steel, etc.
	FUSO-624FR-18	18L	compounds		
	FUSO-650R-04	4L	Mineral oil	Viscous brown oil. Superior performance to protect parts from rusting and corrosion.	Carbon steel, zinc-coated steel, stainless steel, etc.
	FUSO-650R-18	18L	IVIII IOI GI OII		

^{*}These items are available only in Japan. *Any low-viscosity oil (i.e., not genuine oil) can also be used.

Standard Set



25187

Standard Set Contents (TSB1-10)

Rod ϕ 8 mm×100 mm

D

Dispenser (1 Line)(with A-1, A-2) TD1-10 A-1 Tube fitting for air inlet M6 $\times \phi$ 6 mm PL6-M6M **F** A-2 Tube fitting for liquid inlet M6× ϕ 4 mm 25156 В Arm ϕ 8 mm \times 300 mm 25186 C Holder (ϕ 8 mm× ϕ 8 mm) 14012

0.5L Container set (with E-1, E-2) 25197 E-1 ϕ 4 Ball valve R1/8"× ϕ 4 mm

E-2 Fluid tubing $\phi 4 \text{ mm} \times \phi 2.5 \text{ mm}$ Air tubing ϕ 6 mm× ϕ 4 mm

Control box G

Н Hanger for container

Т Rod for container ϕ 12 mm×960 mm 25188 25191

J Angle bracket (with M8 bolt) BVC01-4





A video showing the installation process is available on YouTube.

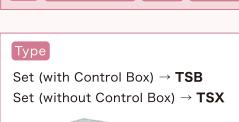
Please scan the QR code using your smartphone camera app.

25192

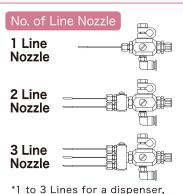
18506

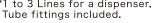
AC-8

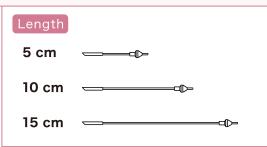
25190





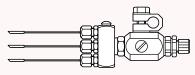






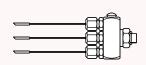


= Needle B (ϕ 1.1 mm× ϕ 1.5 mm) В





*1 to 3 Lines for a dispenser. Tube fittings included.









*Length: 5 cm, 10 cm, 15 cm

■CONTROL BOX

AC-8 Ideal for tapping lubrication



Easy control using limit switch

- ●ON/OFF control in synch with the mechanical stroke.
- Only the application time can be set.

Data				
Voltage/Electric power	100 VAC/10 W			
Maximum air flow rate	220 L/min			
Dimensions	W105×D150×H90 mm*			
Mass	800 g			

AC-9 Ideal for pressing lubrication



Fine-grained control in accordance with the input signal is possible.

- ♠The spray can be adjusted according to the signal input frequency.
- BIt is possible to set a delay (standby time) between the signal input and spray.
- The spraying time (duration) can be adjusted.

Data				
Voltage/Electric power	100 VAC/50 W			
Maximum air flow rate	250 L/min			
Dimensions	W242×D157.5×H86 mm*			
Mass	2.5 kg			

*The dimensions include projections, such as the feet.

LUMINA AUTOMATIC SPRAY GUN



Features ●Large-droplet mists, without overspray, or fine atomizing mists for producing beautifully coated surfaces.

Applications ●Stamping press●Die casting●Injection molding●Rust prevention●Coating●Flux coating●Humidification

■ • ■ FUSO SEIKI CO.,LTD.

:: 扶桑精機株式会社

6-12-17, Hon-komagome, Bunkyo-ku, Tokyo, 113-0021, JAPAN Phone +81-3-3947-1334 https://www.fusoseiki.co.jp/