*The **finishing** experts*

INNOVATION FOR THE PLANET

Thanks to our 65 years of knowledge, our customers get the best electrostatic spraying in industry while saving material, increasing their productivity and protecting the environment.

Product performance, reliability and ergonomics are constantly being improved in the spirit of innovation which has made the name of SAMES famous.

INNOVATION FOR ALL PROTECTION

For more information about us:

www.sames.com

Find your **local contact** by flashcode:

ATEX: SAMES LUB

CE Ex II 3 G

SAMES Technologies

CS 70086 - 13 Ch. de Malacher - Inovallée

38243 Meylan Cedex - FRANCE

Tel: +33 (0)4 76 41 60 60 - Fax: +33 (0)4 76 41 60 90

Your SAMES expert partner:

SAMES LUB
LUBRICATING SOLUTION

- A modular design for spraying
- Precise spraying of lubricants
- Electrostatic spraying

- **High Transfer efficiency** (>98%)
- **Accurate low flow** (<1cc)
- **Minimum space required**
- **Easy integration**

*The **finishing** experts*

SAMES LUB

LUBRICATING SOLUTION

APPLICATION:
Fin and tube machining & press tools

LUBRICATION IS NECESSARY:

- Tool protection: to control temperature to avoid wear
- Secure non-clogging of strip on tool
- Provide a good quality to the strip folded

THE MARKETS

AUTOMOTIVE/TRUCK
Fins are used for radiators, heater cores and AC condensers

H V A C
Fins are used for building heat exchangers

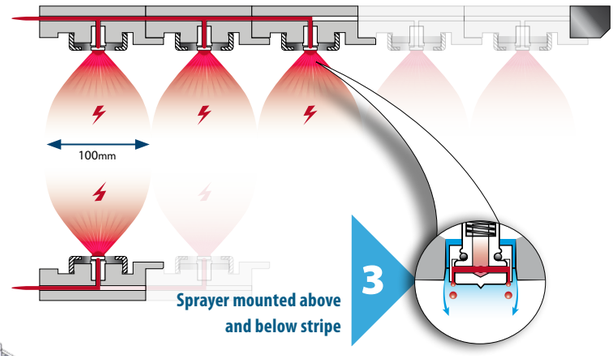
HEAVY INDUSTRY
Lubrication is used on press work

MODULAR DESIGNED SPRAYER

If stripe width is above 100mm, **SAMES LUB** sprayers can be connected to lubricate on larger width, **on a common rail**.

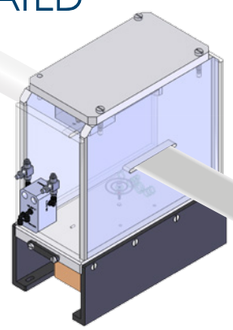
Our design allows to connect up to **5 atomizers** in one block with one **single control** for High Voltage, air flow, oil flow.

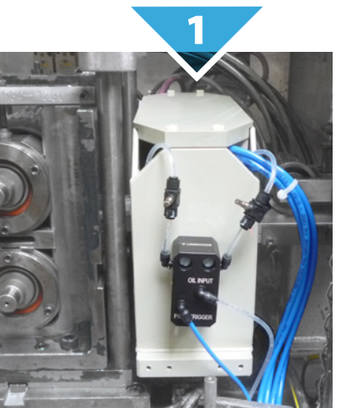
This modular design allows SAMES Lub to lubricate coils of **any width** with a very regular oil flow.

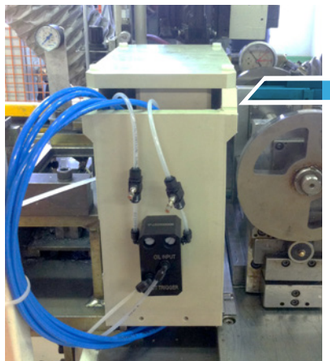


SAMES LUB INTEGRATED SOLUTION:

1. INSULATED BOOTH
2. EASY INTEGRATION
3. ACCURATE FLOW CONTROL
4. EASY TO USE







CUSTOMER BENEFITS

- **REDUCTION IN OVERSPRAY**: Transfer efficiency > 98%
- **ENVIRONMENTALLY FRIENDLY**: No more VOC rejection
- POST-TREATMENT OF **LUBRICANT IS NO MORE REQUIRED**: Heat degreasing can be removed
- **ENERGY COSTS** SAVINGS: No more post-treatment = gas, electricity, water, ... consumptions reduced
- **MAINTENANCE** REDUCED: No more system cleaning
- **SAFETY** IN WORKSHOP IMPROVED: No risk of slipping for operators

ELECTROSTATIC APPLICATION IN LUBRICANT SPRAYING
(SAMES PATENT PENDING)

Phase 1:

↗ Droplets forming

An air flow blows the droplets which are formed at the outlets of the injection holes

Phase 2&3:

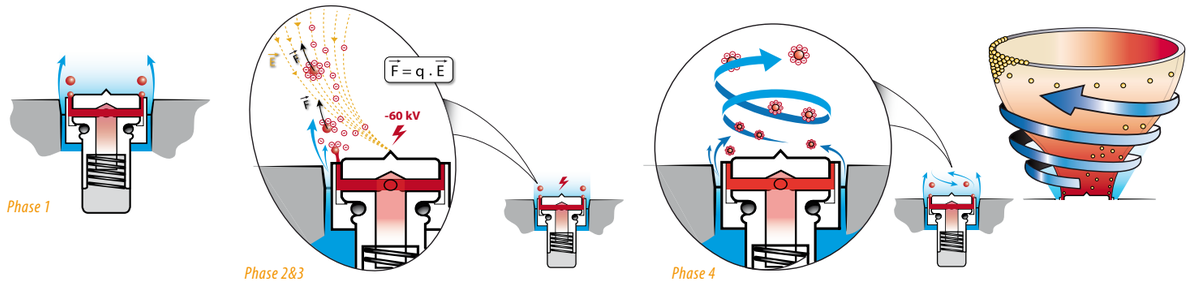
↗ Calibration & transportation of the droplets

Charged and calibrated droplets are accelerated and transported by the electric field

Phase 4:

↗ Stabilization of the spray

A **vortex air** spray with a very low pressure is added. The spray is confined in an semi-hollow conical adjustable volume



CONTROL OF LUBRICANT SPRAY

Due to low flow of lubricant being sprayed (down to 1 cc/min), a flowmeter controls the spray presence.

In case of lubricant missing, flowmeter will alarm operator and is coupled to the main machine.

↗ Lubricant flow regulation control in closed loop is available upon request

SAMES LUB FEATURES

Designation:	nominal
High voltage (kV)	50
Flow rate (cc/min.)	2
Spray distance (mm)	70
Pattern size (mm)	100
Settings:	
Atomizing air (bar)	0.2
Additional air (bar)	0.2
Lubricant (bar)	0.2