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.

**The finishing experts**

**SAMES TECH 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

**SAMES Technologies**

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**www.sames.com**

For more information about us:

Find your local contact by flashcode:
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

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THE MARKETS

AUTO-MOTIVE/TRUCK
Fins are used for radiators, heater cores and AC condensers

HVAC
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:

INSULATED BOOTH

ACCURATE FLOW CONTROL

EASY INTEGRATION

ACCURATE FLOW CONTROL

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 sem-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:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
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<tbody>
<tr>
<td>High voltage (kV)</td>
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<tr>
<td>Flow rate (cc/min.)</td>
<td>2</td>
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<tr>
<td>Spray distance (mm)</td>
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<tr>
<td>Pattern size (mm)</td>
<td>100</td>
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</table>

Settings:

<table>
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<tr>
<th>Parameter</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Atomizing air (bar)</td>
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<tr>
<td>Additional air (bar)</td>
<td>0.2</td>
</tr>
<tr>
<td>Lubricant (bar)</td>
<td>0.2</td>
</tr>
</tbody>
</table>