

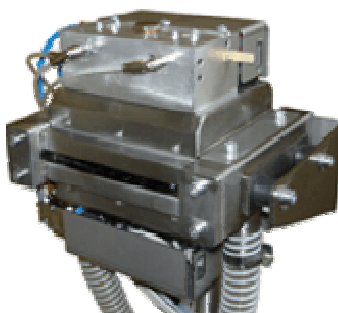
"Your monitoring specialist"  
certified ISO 9001 + ISO 14001



Stamping Line

## Minimal Oil Spraying System MOSS8000

Lubricating of sheet and die, preservation of single parts



MOSS8000

The lubrication of tool and coil in the sheet metal forming is state-of-the-art. It increases process reliability and boosts the quality of the products as well as die life.

### Performance Features

- Contact-free application of lubricants and suspensions
- Up to 70% savings on consumption of lubricants
- Applicable for a large variety of viscosities
- Multi-level filtering
- Adjustment of the film application without any time lag
- Pump – injector or common-rail principle
- Discrete regrease of the cutting punch prevents abrasion
- All actuators can be triggered by remote control
- Spraying chambers in several standard sizes available, special sizes on request
- Changeover is fully automated
- Self-cleaning filter – low maintenance cost
- Compact design with fully integrated oil sump
- Easy to maintain and modular construction offers optimum expandability
- Data base for consumption of lubricant



Quality Management  
ISO 9001:2000  
Voluntary participation in regular monitoring

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Environmental Management  
ISO 14001:2004  
Voluntary participation in regular monitoring



The innovative Minimal Oil Spraying System MOSS8000 offers you still more advantages:

- Finest proportioning of the oil film
- Closed system: no leak of harmful oil vapor
- Excessive lubricant will be recirculated into the primary cycle
- Up to 70% savings on consumption of lubricant

## Function Principle

Lubricant or suspension is being conducted through double-medium injectors by a precision pump. Via air pressure the medium is atomized and sprayed on the workpiece. The medium in excess is extracted by suction, recycled and recirculated. A multi-level filter warrants that no harmful hydro carbon is being emitted into the environment. The spraying volume can be adjusted at the operation panel at any time. A data base for the oil consumption is available.

The operation of MOSS8000 can be carried out comfortably by handheld or PC:

- Data base for easy changeover
- Parameters are revisable at any time
- Real-time visualization of the measuring results
- Remote control of all actuating elements
- Database-driven storage of process data
- Administration of lubricant safety data sheets

## Technical Data

- |  |  |
|--|--|
| • Power supply                         | 230 VAC, 50/60 Hz  |
| • Output                               | 700 VA   |
| • Air pressure                         | 6 bar, anhydrous   |
| • Consumption pneumatic                | Approx. 150 liter/minute   |
| • Standard sizes for spraying chambers | 70 mm – 620 mm (other sizes on request)  |
| • Lubricant container                  | 20 liter   |
| • Recommended properties of lubricant  | Flashpoint > 55 °C<br>Kinetic Viscosity < 120 mm <sup>2</sup> /s at 20 °C<br>Density > 700 kg/m <sup>3</sup> |
| • Protection class                     | IP 54  |
| • Dimensions (L x B x H)               | 800 x 400 x 750 cm   |
| • Weight                               | 100 kg   |



## Service Module



Oil is taken from a can or central oil supply and is dosed in a deposition can. For optical control the deposition can is having an inspection glass. The fill level is regulated by sensors.

From the deposition can a precision pump (reciprocating and rotary pump) is drawing and pumping oil into the spray chamber. The redundant oil, which is collected in the spray chamber, is carried to the Service Module by a vacuum and returned into the lubrication circuit

## Manual control unit „easy Touch“



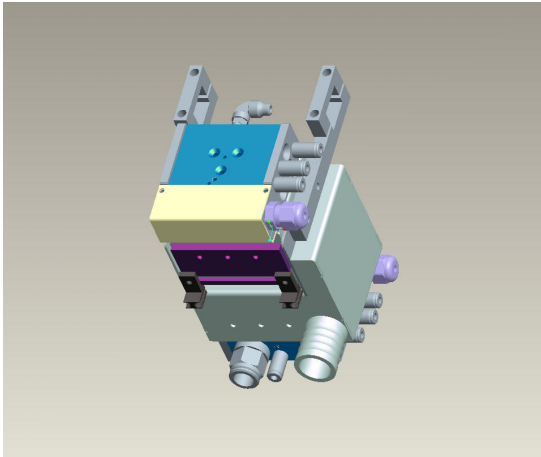
For display of all input information, operating notification and alerts the MOSS8000 is having a manual control unit “easy Touch”.



## Example Spray chambers

Other sizes on request.

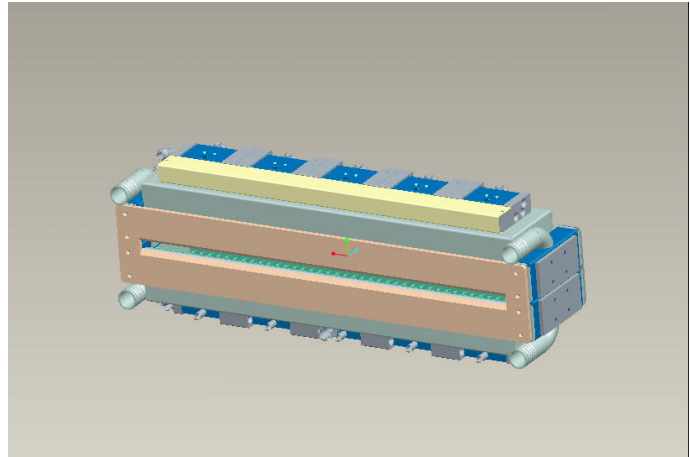
### Spray chamber 70



Max strip width of 65 mm.

The chamber consists of an upper and lower chamber, each with a spray unit. So the metal strip is furnished with a homogeneous oil strainer.

### Spray chamber 520

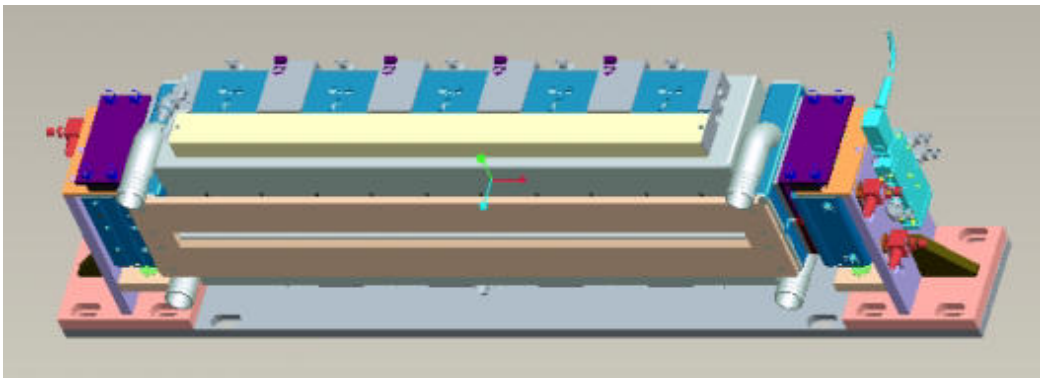


Max strip width of 500 mm.

In the lower and upper chamber there are built in each five spray nozzles. The spray nozzles can be activated section wise.

### Spraying chamber with function „Chamber Lifting up“

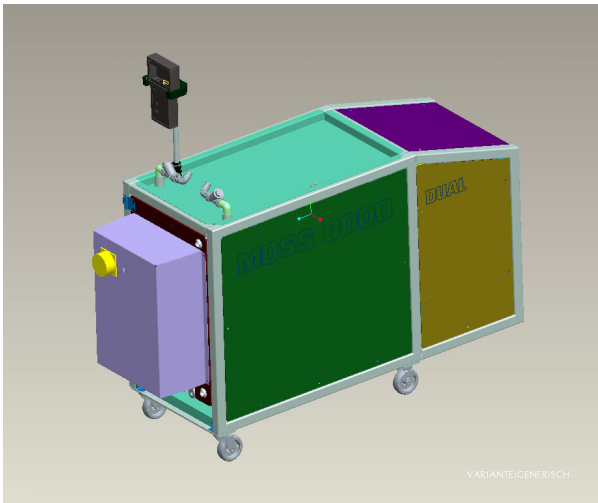
The upper and lower chamber can be driven apart with the function “Chamber Lifting up”. Afterwards the metal strip can be realigned fast and comfortably. Furthermore the spraying chamber can be cleaned very easily.





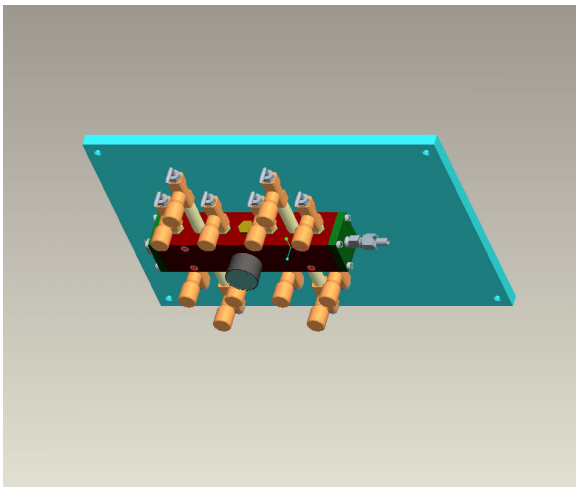
## Options

### Service Module MOSS8000 Dual



If a machine is used with two different oils, which should not be mixed up, MOSS8000 Dual should be used. At the push of a button a fully automatic oil switch is performed in 10 minutes over an oil- and vacuum switch.

### Instrument oiling DLU8000



With the instrument oiling DLU8000 various devices can be oiled. Different flow rates are adjusted by a dosing valve. Oil pressure is electronically regulated between 0.5 to 1.0 bar. 6 or 12 oil outputs are offered (DLU8000/6 or DLU8000/12).