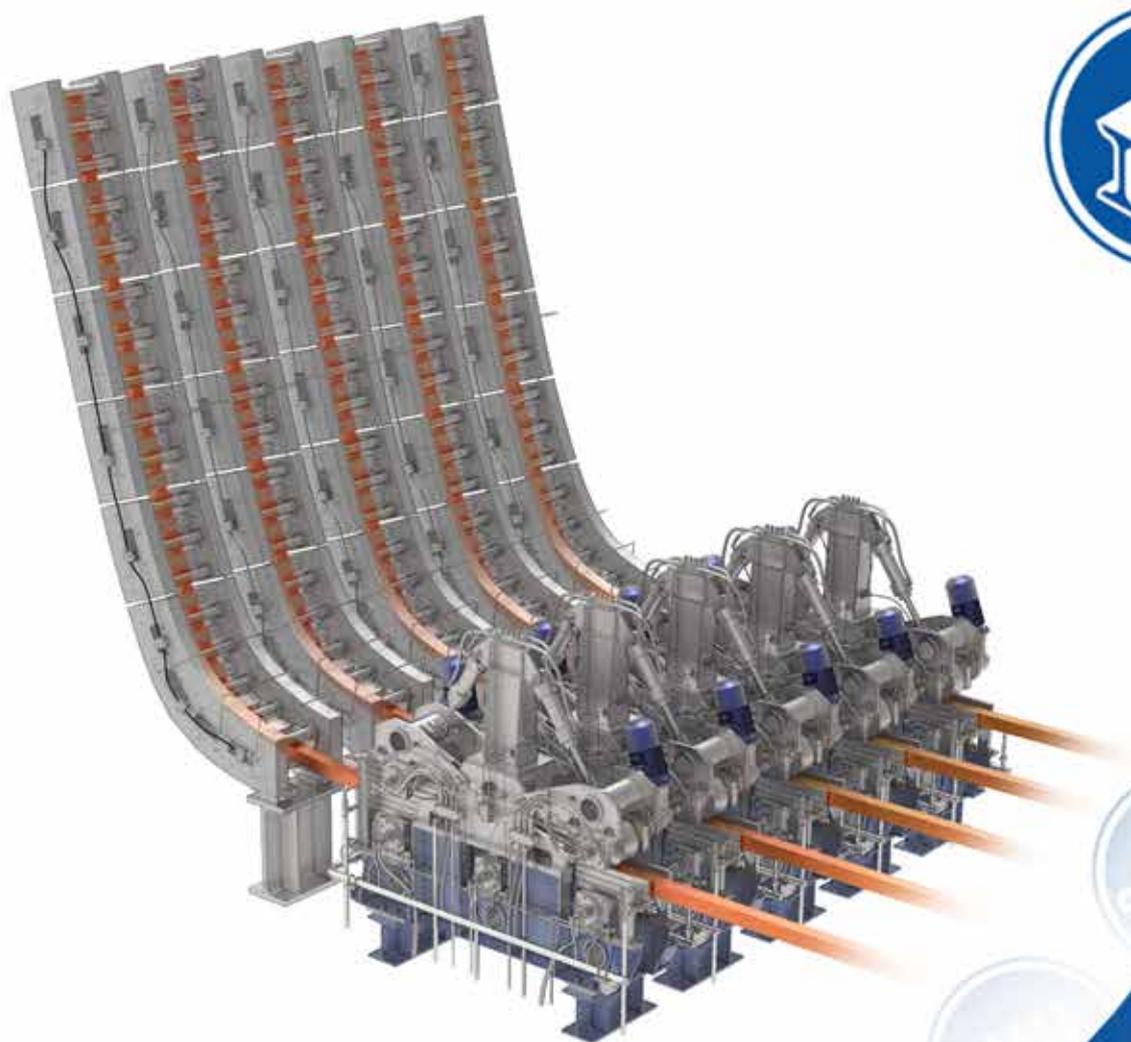


# DropsA

Lubrication systems specialists

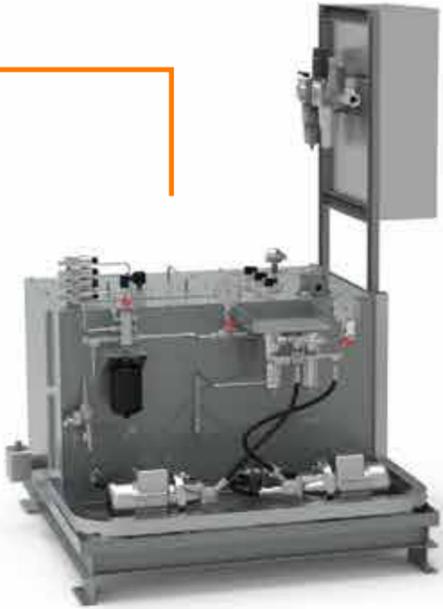
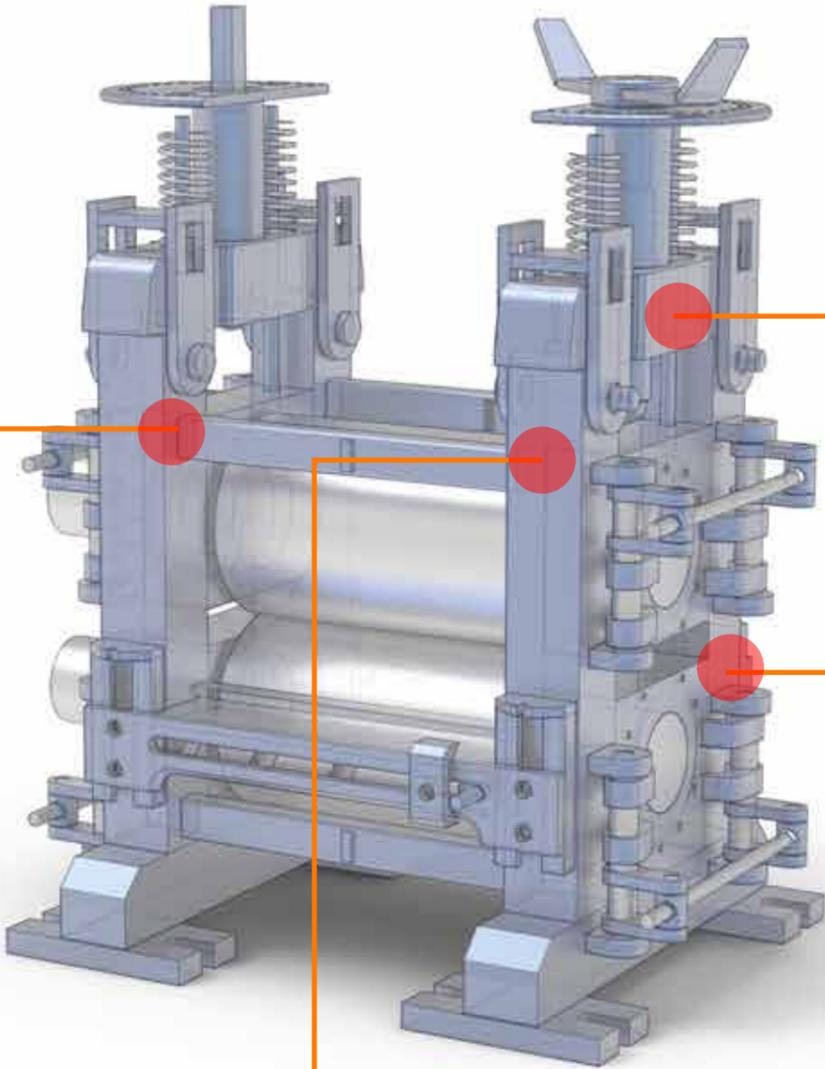
## STEEL AND ALUMINIUM





**LUBRICATION SATELLITE**

The "SATELLITE" control panel is an intermediate panel made up of an SMX divider with calibrated elements, an air treatment unit, pressure switches, flow meters and mixing valves. This panel is installed between the oil system and the cages. Depending on how widespread the system is, on the quantity and position of the cages and the bearings to be lubricated, 1 or several satellites can be installed in order to divide up the system and increase control and reliability. All of the air and oil flow rates are adjustable from the PLC installed on the oil system in order to vary the quantity of lubricant to be sent to the stands based on use, temperature or wear.



**OIL SYSTEM**



**SMX SERIES AIR-OIL DIVIDERS**

Of the various types of systems that can be used for air-oil lubrication of rolling cages, the use of SMX air-oil dividers is popular and supported especially for previously grease-lubricated rolling mills, with small cages, in order to optimise costs and drastically reduce lubricant waste and the environmental impact. The typical system that uses these dividers includes a main line with dual-line dividers installed on satellites with cycle control



**SPLITTER TUBES**

The "splitter tube" type lubricators created by DropsA are products customised based on the characteristics of the bearings and the holes available on the rolling cages. The splitter tube is flow rate splitting tube based on a proportional dosage. The air/oil mixture entering the tube is distributed to the two-three or X number of outlets based on the model and the need. DropsA used fluid-dynamic calculation (FDC) instruments and experimental data to optimise balancing of the output flow rate pressure in order to obtain a more accurate distribution of the air/oil flow onto the lubrication points.



**SPLITTER BLOCK**

The air/oil Splitter Block is a lubricant manifold that divides the flow of the air/oil mixture in equal proportions based on the number of outlets of the divider. The incoming air/oil mixture is distributed into two, four, six or eight outlets. The main advantages stemming from the use of this air/oil distribution technology lie in the possibility of using only one tube containing air and oil. The technology used for the air/oil Splitter Block, although less accurate than volumetric technology, can achieve substantial levels of savings on initial costs, because it allows the number of tubes utilised to be reduced. The splitter block is usually used to convert old grease-lubricated rolling mills to air-oil systems where, however, the holes on the individual bearing chocks cannot be used for the use of splitter tubes.



**END OF LINE PRESSURE SWITCH**

The end of line pressure switch is installed outside the main line to control correct operation of the system. It allows an alarm signal to be sent or the machine to be stopped when the line pressure does not reach the set calibration value



**GREASE STATION**

The initial part of the rolling process, after the continuous casting and prior to the rolling mill, is lubricated by DropsA with grease systems and dual line dividers. Given the need to operate continuously and to guarantee maximum reliability, redundant systems are proposed with pumps in standby that operate automatically, starting and stopping at regular intervals to extend the life of the motors and the most stressed elements and to reduce maintenance times. Sumo 2 series pumps with 100 kg reservoirs are usually installed on skids along with the electrical equipment, instrumentation and control valves (pressure switches, pressure gauges, pressure transmitters, solenoid valves, etc.).



**DUAL LINE DIVIDERS**

Modular dividers for the dual line system are versatile and precise components. They are made up of bases and valves (in AISI 316 Stainless steel or in AVP steel). The valves can be supplied with adjustable or fixed flow. The modular dual line dividers provide the following advantages:

- Flexibility in increasing or decreasing the number of modular elements assembled
- Time savings: the divider valves can be replaced without intervening on the assembly or on the fittings and tubing.
- Reduction of maintenance costs: the total modularity of the system allows quick and low-cost operations.
- Reduction of costs for replacement part stock thanks to the interchangeability of the valves and the related bases.

All of the SUMO II, MINISUMO, MINISUMO II, etc. series pumps are available, besides in the standard versions, paintable following the customer's specifications, also in special variations in accordance with NEMA, EAC, ATEX standards for zone 1 and 2.



Automatic lubrication: optimisation of costs and work times



The use of lubrication systems is even more indispensable for the correct operation of machines when they operate in difficult environmental conditions such as those in steel mills. The installation of an automatic lubrication system allows machine down times to be reduced and allows consumption of the lubricant to be controlled and the life of the bearings, chains and gears to be increased. Thanks to their many years of experience and a capillary network of branches and resellers all over the world, DropsA provides specific solutions for every need and follows the customer from the definition of the project to the installation to post sales support. The solutions proposed for the steel and aluminium sector are applicable on all the various types of machinery:

-   
CONTINUOUS  
CASTING SEGMENTS
-   
STRAIGHTENERS
-   
CAGES
-   
LOOPERS
-   
SHEARS

Systems Solutions

-   
TOTAL LOSS  
LUBRICATION
-   
GREASE  
LUBRICATION
-   
AIR/OIL  
LUBRICATION
-   
OIL RECIRCULATION  
LUBRICATION
-   
MQL NEAR DRY  
MACHINING LUBRICATION

DropsA

Since 1946, DropsA has been producing systems and components for centralised lubrication, continuously developing new products and patents that have contributed to making the lubrication sector all over the world more innovative and competitive.

DropsA offers a vast range of products capable of maximising the profitability and productivity of your machinery, providing the latest technologies in terms of systems, functionality and components. Thanks to the branches and the specialised distribution channels, DropsA provides prompt responses, support and assistance to customers on a local or global level, guaranteeing the same high quality standards all over the world.



DropsA Production

The production, processing and automated assembly systems that are in the central plant near Milan are equipped with an advanced quality monitoring and product traceability system in order to guarantee both highly efficient processing and product assembly that accurately reflects the technical specifications.

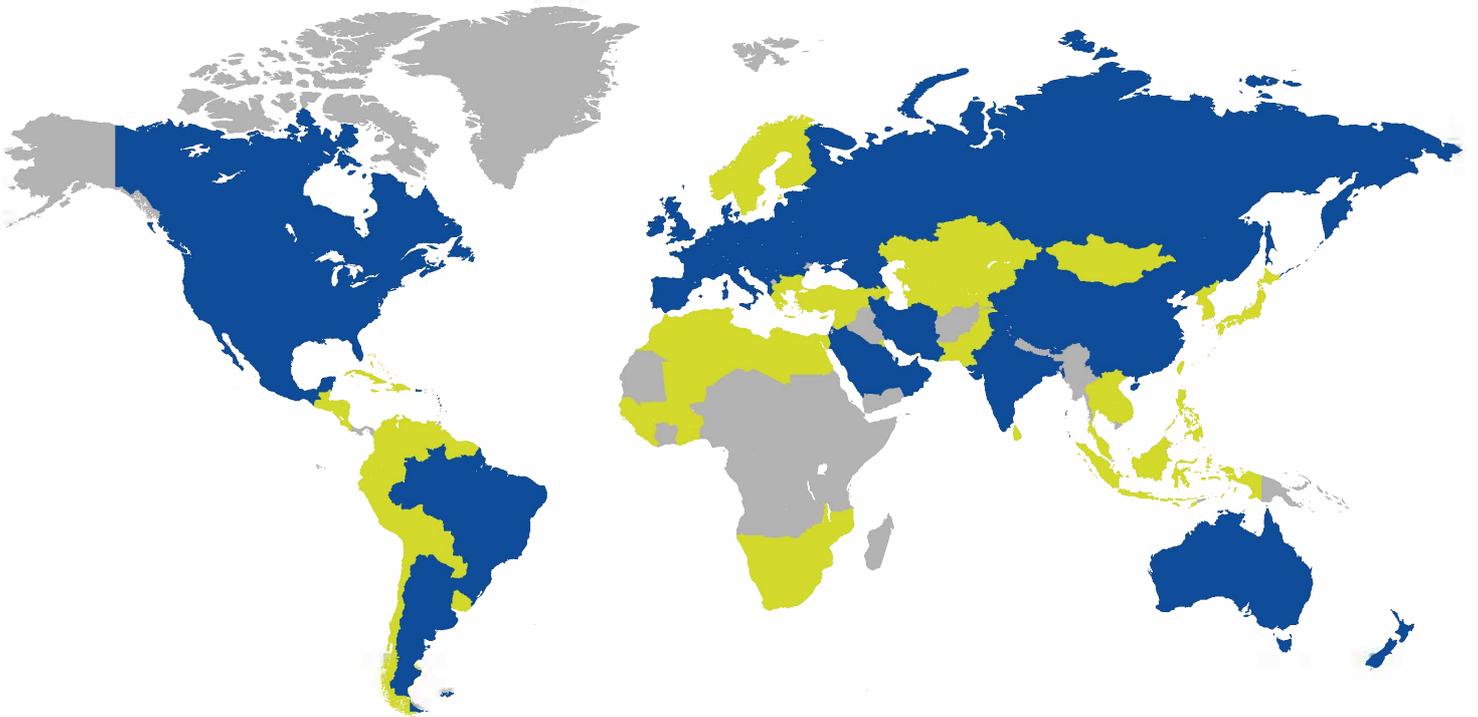
Continuous investments in all of the areas of design, engineering and production of the products ensure a constant increase in the reliability of the products themselves.



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