

ORSCO® Continuous Spray System:

A True Innovation in Oil Lubrication Technology



The ORSCO Philosophy:

“The best approach to lubrication is to deliver the least amount of lubricant required. Anything else is wasted.”

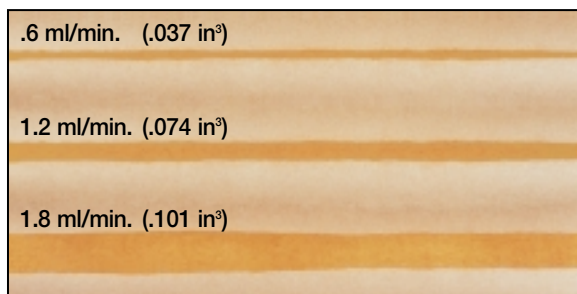
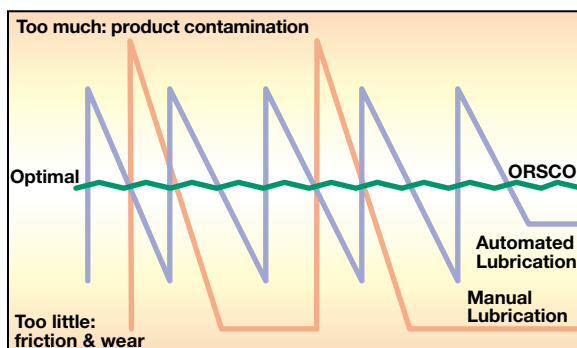
A True Innovation in Oil Lubrication Technology

The major difference between ORSCO oil lubrication systems and other lubrication technologies is the use of a continuous, ultra-fine, non-mist delivery of lubricant. The ORSCO system can spray minute quantities of lubricant for a selected duration of time.

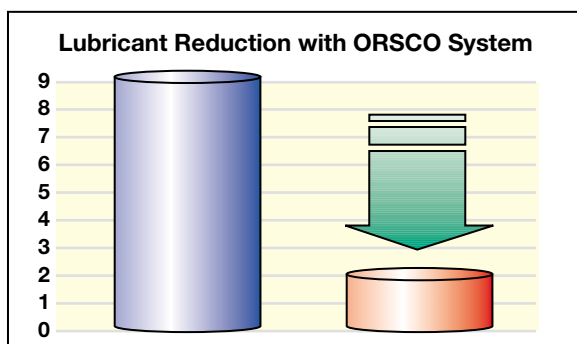
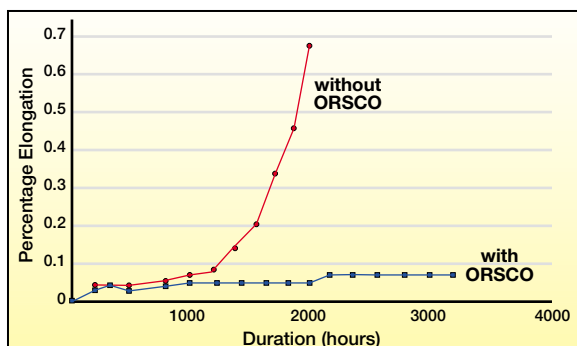
The ORSCO systems deliver minute quantities of oil, resulting in significant cost savings by decreasing lubricant consumption, reducing product contamination and eliminating under/over lubrication.

In critical applications where cleanliness is a must, the ORSCO system achieves exceptional performance.

The system is successfully used in Plastic Film, Textile, Food Processing, Baking, Automotive, Metal Stamping, Fiberglass, Electronics, Can Decorating, Mining, Pulp and Paper, Machine Tool and many other industries.



Typical ORSCO Spray patterns



Eliminates the Too Much—Too Little Factor

The ORSCO system lubricates more effectively than traditional cyclic lubrication systems or manual lubrication. With the ORSCO system you are always at the optimum lubricating range.

Eliminates Contamination

ORSCO's patented, precision spray nozzles lubricate exactly where required with an accurate amount of lubricant to reduce product contamination. Unlike traditional oil mist systems, ORSCO's spray technology eliminates environmental contamination typically caused by "stray mist."

Continuous, Consistent Spray

ORSCO systems are capable of dispensing one drop of lubricant continuously for a period exceeding four minutes. No change in spray pattern occurs even after another drop of lubricant is injected.

● This red dot is the actual size of a drop of oil (.03ml/0.002 cu³) the ORSCO system can deliver in a continuous consistent spray pattern up to four minutes.

Dramatically Increases Life Expectancy of Lubricated Devices

Percentage elongation (shown on the chart for chains) is maintained at a consistent low level, even after 3,000 hours of use. The result is five to ten times longer life expectancy of the lubricated devices.

Up to 90% Lubricant Reduction

If you calculate the actual amount of lubricant that is needed for a particular application, the majority of automated and manual lubrication systems over lubricate. Because ORSCO systems lubricate continuously with an ultra-fine, non-misting spray, only the exact amount of oil required to lubricate is used.



ORSCO Products and Services

Series 150

A standard and easy to install system for up to eight lubrication points with multiple variations to choose.

Series 200

A customized system that provides basic monitoring with unlimited lubrication points.

Series 300

An advanced engineered lubrication system with complete fault monitoring.

Coaxial Delivery Systems

Point of use lubrication delivery system for air tools, cylinders, pumps, guns, drills and motors.

Services

ORSCO design services are available for complex systems and for special applications. If necessary, ORSCO will custom design nozzles or systems specific to the particular application.

ORSCO has been part of the Lincoln Industrial product family since 1998.

Technical Information

ORSCO, Inc.

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A Pentair Company

ORSCO® Series 150

A Standard Packaged Lubrication Solution



The ORSCO Continuous Spray Lubrication Systems drop lubricant use up to 90% and help eliminate oil waste or air contamination.

An Easy To Install System For Up To Eight Lubrication Points With Multiple Control Options Available

System Features

- Lubricates up to eight lubrication points
- Adjustable lubricant output volume
- One dedicated positive displacement injector per spray nozzle
- Viscosity range 100 to 2000 SUS/460 to 9200 CST
- System mounted remote from nozzles (up to 60 feet/18 m)

We designed our Series 150 as an engineered standard package. The Series 150 is simple to assemble and install, as well as easy to operate and maintain. With the different control options and nozzle quantities it is a flexible application oriented package.

Control Options

- C Option:** Customer controlled option with a terminal strip for connection to PLC, PC or machine control.
- T Option:** Incorporates the ORSCO TDR-11 timer module to control the injector timing for volume adjustment.
- R Option:** Incorporates the ORSCO TDR-11 timer module to control the injector timing. Timer relays are used to control spray cycle timing.

Dimensions

Size: 18.5" x 19.63" x 7.44"
470mm x 500mm x 190mm

Power Options

AC and DC power options.

Nozzles

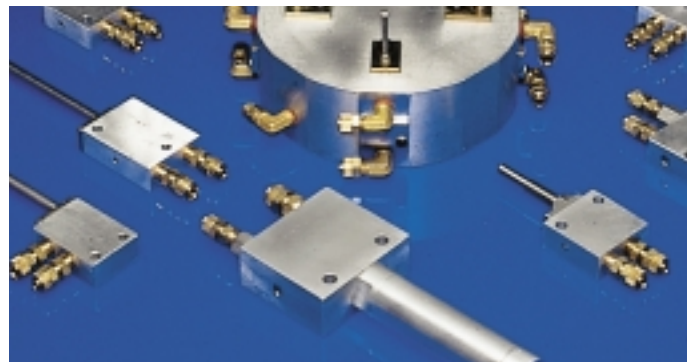
ORSCO's patented precision spray nozzles apply lubricant with a unique non-misting air-oil blend for maximum effectiveness. Nozzles are available as a standard or custom designed specific for special applications.

Typical Applications

- Chain Lubrication
- Fin Mill
- Light Assembly
- Conveyors, etc.

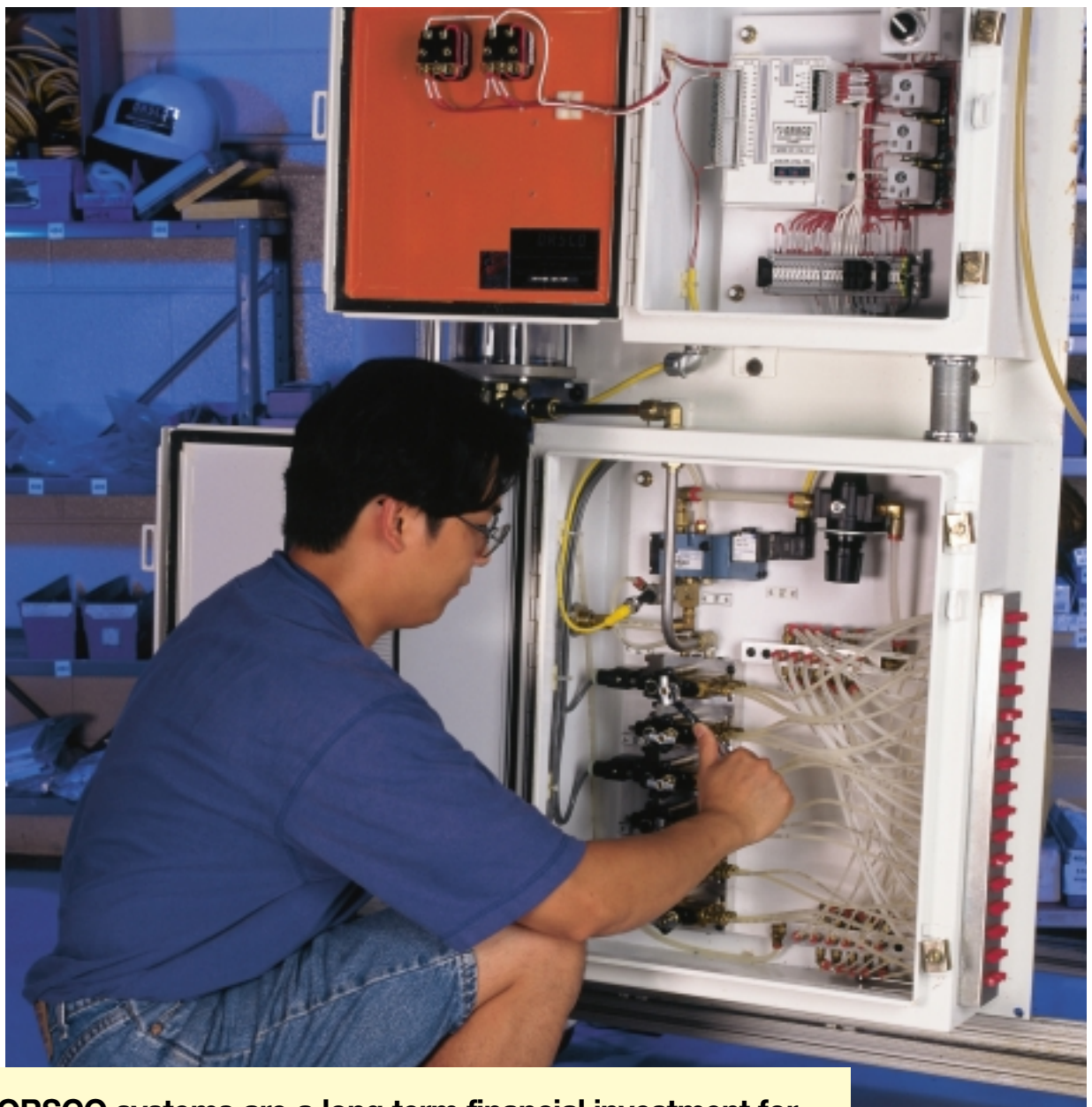
Technical Information

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ORSCO® Series 200

Custom Designed Oil Lubrication Systems



The ORSCO systems are a long term financial investment for your applications. With a short return on investment, the ORSCO system is an ideal solution for your lubrication needs.

A Fully Customized System For Unlimited Lubrication Points

System Features

- Basic fault monitoring
- Unlimited lubrication points
- Lubricant volume adjustment capabilities
- Spray nozzles operate with regulated air pressure as low as 5 psi (.35 bar)
- Dispenses lubricant exactly where it's needed—even hard to penetrate areas
- Continuous delivery or intermittent operation



The Series 200 system is a customized package designed for unlimited lubrication points.

Dimensions

Size: Varies per the number of nozzles required

Fault Monitoring

- Low oil reservoir fault
- Low air pressure for the system

Nozzles

ORSCO's patented precision spray nozzles apply lubricant with a unique non-misting air-oil blend for maximum effectiveness. Nozzles are available as a standard or custom designed specific for the particular application.

Typical Applications

- Assembly lubrication
- Accurate, clean delivery of most fluids
- Chain lubrication, etc.

Technical Information

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ORSCO® Series 300

Fully Monitored Oil Lubrication Systems



The ORSCO Series 300 Lubrication System provides complete monitoring of both air and oil lines for 100 percent delivery verification.

An Advanced Engineered Oil Lubrication System With Complete Monitoring Capabilities

System Features

- Unlimited lubrication points
- No limitations on spray direction
- No change in spray pattern, even when another drop of lubricant is injected
- Capable of dispensing one drop of lubricant continuously for over four minutes
- Full fault monitoring capabilities

The Series 300 System is the most advanced of the ORSCO systems available. This customized system allows ORSCO engineers to design to your specifications. The addition of a PLC gives the Series 300 the edge over other systems, allowing for complete delivery verification. With capability for unlimited lubrication points, the Series 300 can work with any application.

Dimensions

Size: Varies per the number of nozzles required

Fault Monitoring

- Reservoir level condition
- Low air/oil pressure in the line feeding the nozzle
- High air/oil pressure in the line feeding the nozzle
- Injector (pump) pressure spike verification



Nozzles

ORSCO's patented precision spray nozzles apply lubricant with a unique non-misting air-oil blend for maximum effectiveness. Nozzles are available as a standard or custom designed specifically as required by the particular application.

Typical Applications

- Assembly operations
- Critical chain applications
- High speed spindles, etc.

Technical Information

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ORSCO® Coaxial Systems

Precision Injector and Co-Axial Lubrication Assemblies



ORSCO systems are preferred for their reliability. When you have a job that needs to get done, ORSCO is the name you can trust for dependable lubrication.

Consistent—Dependable—Reliable

System Features

- Point of use lubrication delivery
- High level of control
- Modular connectors for easy maintenance
- Central fill capability

ORSCO Coaxial systems provide oil injection for exact air tool lubrication.

Benefits

- Proper lubrication of air tools
- Consistent torque
- Decrease in air tool maintenance
- Decrease in housekeeping costs

Options

- Multiple air tool lubrication capabilities
- Suspension options (all tool rail types)
- Automatic or manual lubricant fill
- Standard or custom assemblies
- Hose selection options
- Tool end coupling type options
- Base assembly options

Applications

Single Point

- Air tools (short cycle)
- Cylinders
- Pumps
- Rivet guns
- Air valves

Air Logic Lubricator

- Grinder air motors
- Dye mixer motor
- Air powered drills
- Long running air motors (run longer than one minute)

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Hoses with Internal Capillary Tubes



Family of Coaxial-Components