Outer Diameter Lubrication

When the next step in your assembly can use a little help.

AIS offers an **Outer Diameter (O.D.) Lubrication option** to apply additional lubrication to the outside of an O-ring immediately prior to installation. This option is commonly used when downstream assembly, material characteristics, or part geometry benefit from increased surface lubrication.
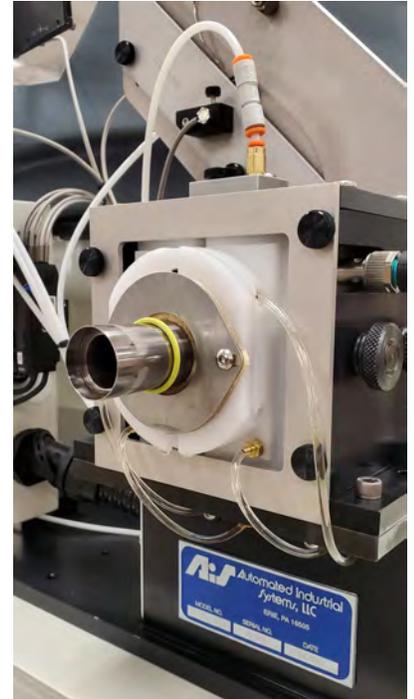
How the O.D. Lubricator Works

The O.D. Lubricator uses an **abrasion-resistant industrial foam** to apply lubrication to the outer diameter of the O-ring as it is installed onto the component.

The foam is mounted on a **stainless steel plate** attached to the front of the stripper jaws. Dedicated lubrication lines deliver lubricant to the O.D. Lubricator, saturating the foam during operation.

As the O-ring passes through the O.D. Lubricator, the edges of the foam contact the O-ring and deposit additional lubrication* around the outer diameter. The lubricated O-ring is then placed onto the part.

*NOTE: AIS cannot guarantee 100% lubrication coverage on the outer diameter of the O-ring.

Available Lubrication Configurations

1. Standard Lubrication Integration

The O.D. Lubricator can operate using the **same lubricant type already supplied to the machine** needed for installation.

This setup includes:
- **Utilizes the machine's existing lubricant**
- **No additional reservoirs** required
- Maintains a simplified lubrication system

This configuration is commonly selected when the goal is incremental lubrication without introducing a secondary lubrication circuit.

2. Dedicated Grease Lubrication

For applications that require **heavier or more persistent lubrication**, the O.D. Lubricator can be configured to operate with grease using a dedicated system.

This setup includes:
- A **separate grease reservoir**
- An **independent pump**
- A **level sensor** for grease supply
- Stainless steel delivery lines

Using grease can provide robust lubrication on the O-ring's outer diameter, which can reduce friction and improve ease of assembly further down the production line.

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