

ASP-3

External O-Ring Installation Machine

Accommodates O-Rings ranging from 2.0" (50.8 mm) O.D. and up**

AIS is the world's leading manufacturer of O-ring and seal installation machines and the only company to utilize the revolutionary radial stretch technique, a solution that significantly enhances durability, simplifies installation, minimizes damage, and ensures improved seal integrity. The ASP-3 is the largest machine in the AIS external semi-automated line, custom-engineered for applications requiring precise, repeatable installation of large-bore o-rings and seals starting at 2.0" O.D. Where the ASP-2 reaches its ceiling, the ASP-3 takes over.

ASP-3 machines deliver a precise, repeatable installation process for large o-rings and seals. Once the part is placed into the mandrel, a simple push, by operator or by robot, activates the system, precisely installing the o-ring or seal exactly where it needs to be. The upper size limit is application-dependent; contact AIS to qualify your specific seal and part geometry. A typical layout features a vibratory feeder bowl, a gravity-fed track, and installation tooling tailored to your unique needs.



Ideal For:

O-Rings

Cup Seals

Back-Up Rings

Quad Seals

Teflon Seals

and More!



ASP-3 Optional Features and Upgrades

O-Ring Detection – A sensor verifies the presence of an O-ring on the mandrel during each machine cycle. If no O-ring is detected, a warning light is triggered, and the machine automatically shuts down.

PLC Expander – Enhanced I/O interfaces to support integration and data exchange.

Low Lube Reservoir Sensor – A sensor monitors the lubricant level and activates a warning light when the reservoir is running low.

Low Bowl Sensor – A sensor monitors the O-ring or seal level and triggers a warning light when the feeder bowl is running low.

O.D. Lubricator – Applies lubrication to the O-ring's outer diameter, facilitating smoother installation in the next stage of your process.

Medical Package – Stainless steel components specifically suited for medical and cleanroom applications.

Variable Placement Module – A rotary actuator with a transfer mandrel places seals onto parts in vertical or other orientations.

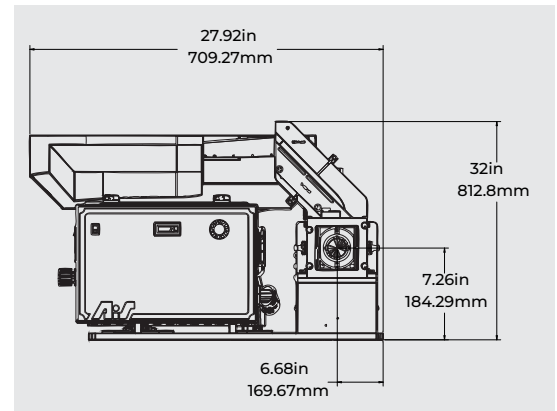
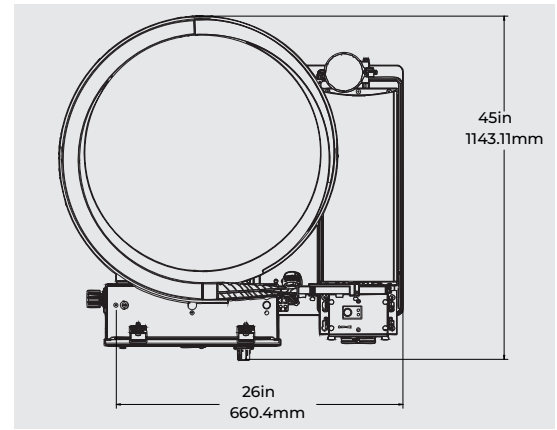
Machine Specifications:

115 VAC, 60Hz (Other voltages upon request.) 65-90 psi (6.025 bar) air supply.

- Accommodates O-Rings from 2.0"* (50.8mm) and up** (50.8 mm) Outside Diameter**
- Cycle rates of up to 12 per minute (over 720 per hour)
- Digital resettable counter
- Compact, bench-top mounted machine
- Right or Left hand configurations available
- Seamless horizontal or vertical integration with automated systems
- Streamlined tooling changes to support additional applications

* For O-Rings smaller than 2.0" O.D., explore our ASP-2 machine.

** Dependent upon ratio of cross section to Outside Diameter and O-Ring material.



STANDARD ASP-3 DIMENSIONS

AIS AUTOMATED
INDUSTRIAL
SYSTEMS

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