



ADS have developed an exciting response to manufacturers' requirements for high precision sealing of enclosures and many other applications where top performance seals are essential. Using polyurethane (PU) foam to form the gasket or seal, production processes can now become fully automated with increased mechanical and sealing properties. The ADS Foam Sealing machine is the precise equipment for producing quality PU foam seals each and every time, whether they be electrical enclosure seals, air filter assemblies, street lighting/lanterns, or other forms of light assembly work.

Machinery is purpose built to suit the customer's exact manufacturing requirements and typically comprises a 3-axis linear robotic manipulator, materials mixing and dispensing system, and a component handling system.

Our machine can traverse up to 2.2 metres across a work-piece. A cross arm provides the second robotic axis and can extend to 1m giving a total working area of 2.2 sq.m. This design allows ample space in front of the machine for the work-piece and operator.

The materials system has 2 precision gear pump circuits which allow the materials to circulate and maintain optimum condition. When foam is required, the materials meet in a dynamic mixer chamber to ensure that a constant stream of foam is dispensed.

Successful foam sealing is achieved because the ADS equipment is able to combine a constant stream of thoroughly mixed material with a constant linear velocity of the mixing head over the work-piece. The use of pre-loaded bearings, precision ball screws and pre-loaded ball screw nuts further enhances the accuracy obtained.

The combination of drive and metering features offers users of the ADS Foam Sealing machine a precision tool to elevate manufacturing quality to new levels and to enhance their own product specification.

Summary of Key Features

- Robust fabricated mild steel construction
- Tight control of speed and PU flow rate
- Sophisticated ability to position components to ensure precision seals
- Excellent repeatability in production to eliminate any failures/errors
- Easy to operate including self-programmable software

WE ALSO MANUFACTURE

ADS product range is continually expanding and includes prototype design and build as well as repeat-order manufacturing solutions:

Linear Robotics Systems

- palletising
- pick and place
- box clamping and welding
- large wheel fixing technology

Conveyor Systems

- belt
- slat band and indexing
- chain and wire band
- gravity and driven roller

Lift Systems

- chain hoist and tilt for skips and tubs
- pneumatic and hydraulic table lifts

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