

Jesco[®]

Products Company, Inc.

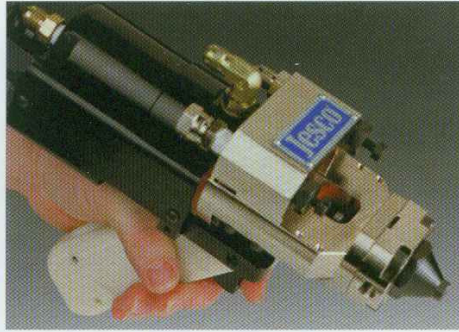


A typical automotive assembly line station for injecting acoustical (NVH) foam in vehicle

Autofoam[™]

Systems

Autofoam™ Systems



Pistol grip gun (patent pending)

Impingement Mix Gun

The key to good quality foam and trouble-free operation is the utilization of a manageable yet robust and ergonomically compliant applicator gun

Since 1991 Jesco has been developing and improving the Autofoam™ Dispense System and two component mix gun for a variety of chemistries that have been successfully qualified for production. The balance of temperature and injection techniques, as well as pressure control and actuation response, are the key elements in Jesco's success. Whether automated or manual application, the gun has to be articulated in order to fill the appropriate cavity. Pistol and parallel grip styles were designed to facilitate versatility.

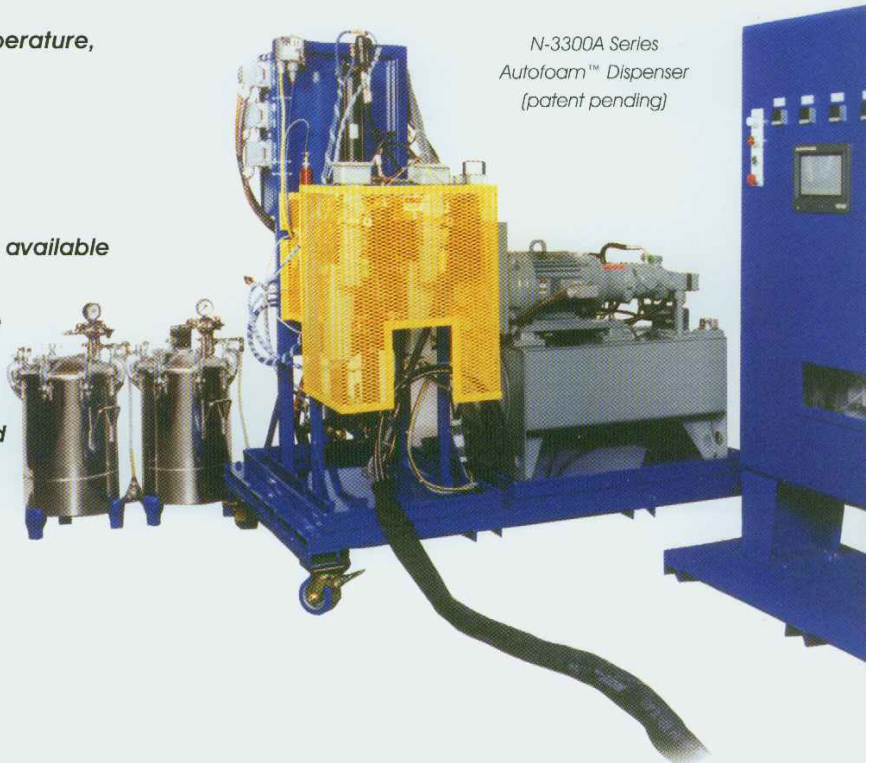


Parallel grip gun (patent pending)

On the cover: Two separate guns are suspended from individual two axis trollies. Balancers are also utilized to maximize hose management.

System Features

- Positive displacement metering
- Controlled flow rate independent of temperature, pressure, or viscosity fluctuations
- Hydraulic driven
- Shot meter design
- Continuous or metered shot capabilities with position/volume feedback
- Manual dispense, multiple configurations available
- Full automation interface
- Flow rate and volume reporting available
- Meter capacity custom sized
- Programmable shot size capability
- Programmable shot sequencing standard
- Shot repeatability of $\pm 1.5\%$
- 16 different pre-programmed shot sizes can be selected at random
- Allen Bradley PLC controller standard
- Touchscreen operator interface
- High duty cycle/long life design on all components including the mix gun



N-3300A Series
Autofoam™ Dispenser
(patent pending)

Vehicle Noise Reduction Challenge Met

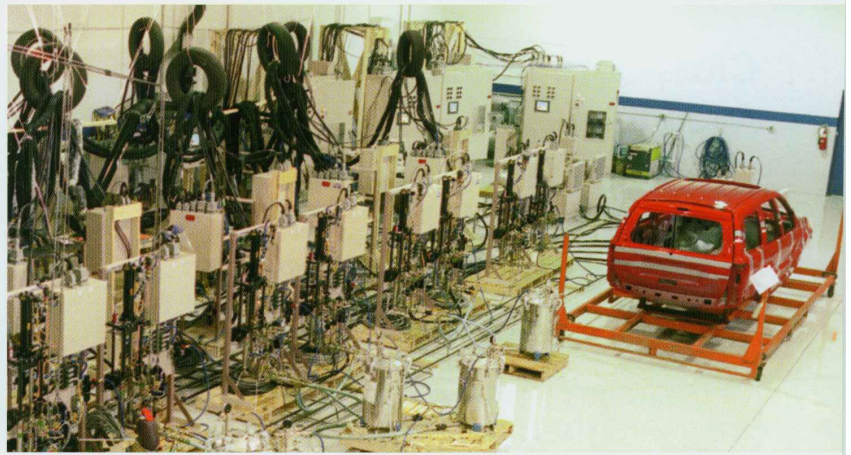
The first major installation was at an automotive assembly plant in May 1998. The assignment was to inject foam into 24 locations within a vehicle to provide noise reduction. Three operators were assigned to each side of the line. The plant was to run three shifts per day, six days a week.

Jesco stepped up to the challenge and provided a robust, production dispense cell meeting the automotive manufacturer's expectations. All runoff criteria was performed at Jesco's research and development facility in conjunction with the automotive manufacturer's personnel.

News of Success Gets Around...

Based on the success of the (Autofoam™ Dispense System's) performance, other automotive plants were intrigued enough to want Jesco to set up systems for their plant operations. Each foaming system proved to be a positive performer.

Full system interface including, F.I.S., PFCS and AVI systems provided vehicle tracking and repair



Autofoam™ Dispense System setup for vehicle sound deadening validation

notification. These are among a few of the features utilized by the various plants. An entire hose management system, as featured on the cover, was also furnished. Sound deadening qualities are a key feature with automotive designers as well as the consumer.

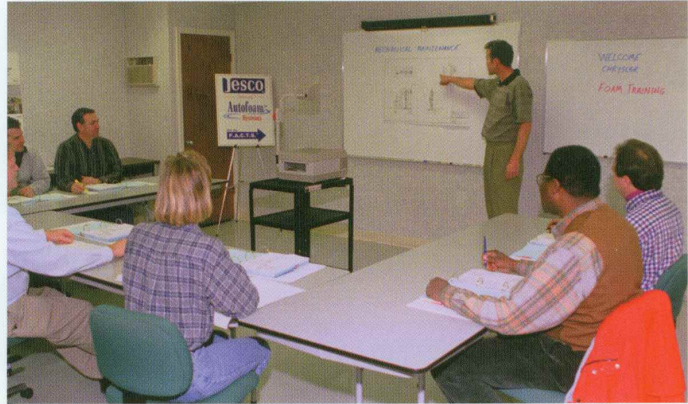
Jesco has taken an active role in providing cutting edge equipment solutions to the automotive industry. Jesco now has acoustical foam dispensing equipment in over ten locations including lab and production environments. Jesco is ready to take on your foaming challenge.

Autofoam™ Dispense Systems can be configured for specific assembly line needs



Classroom Training Available

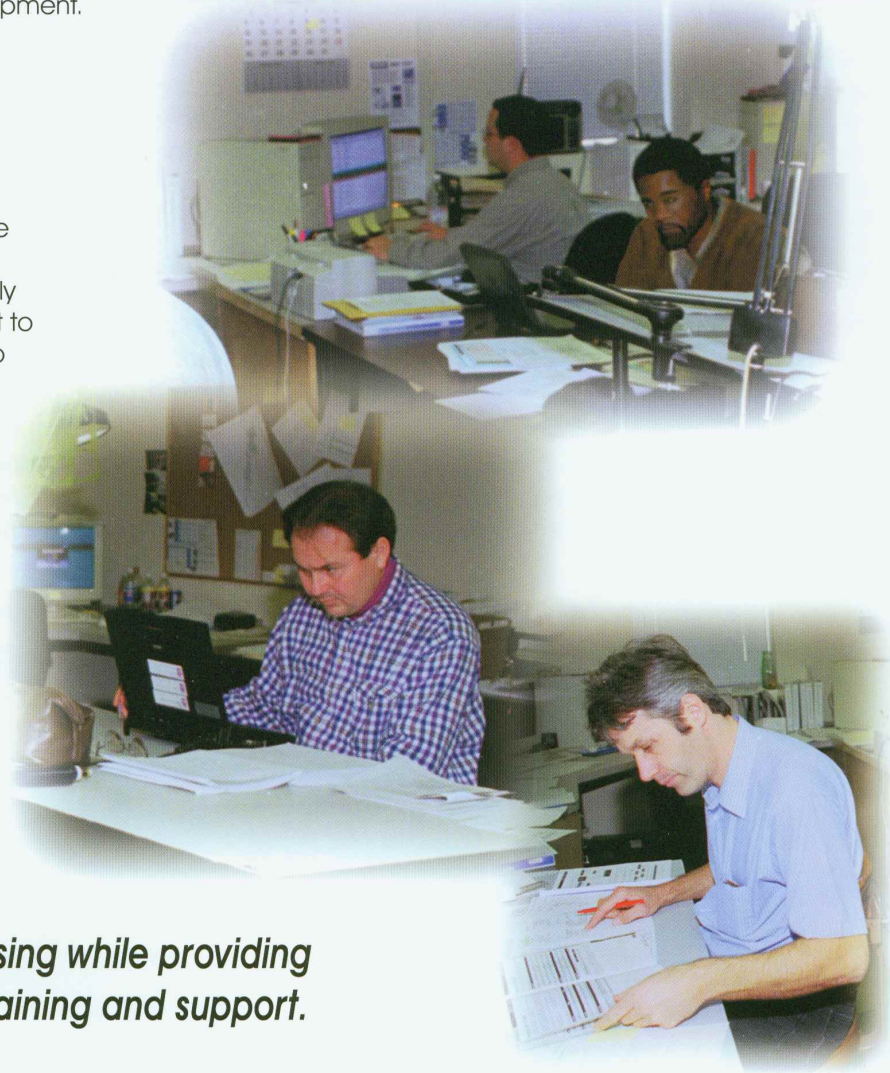
System knowledge is vital to a successful installation and production launch. Jesco offers a full range of classes that cover comprehensive information for skilled trades, operators and supervisors. Classes can be conducted at Jesco's Training Center (shown) or at your facility. Each student receives a reference manual which is covered in the morning session as well as an afternoon of hands on training with on-site equipment.



Engineering

Jesco employs over 100 years of collective engineering talent. As a leader in dispensing solutions since 1964, Jesco has crafted a wide range of sophisticated, user friendly products. We encourage concept to production involvement in order to zero in on the best approach to meet your specific needs, maximizing your competitive edge in today's ever changing market.

3D design to custom software development is available. Compliance to end user specifications in respect to controls, safety and functionality is standard procedure.



Jesco's mission is to offer total engineering solutions for fluid dispensing while providing outstanding customer training and support.

Jesco Products Company, Inc.

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