



Aseptic Vial Processing from PennTech Machinery Corporation

PennTech manufactures advanced aseptic vial processing equipment that is uniquely engineered to outperform. A special emphasis is put on high quality, small scale, and efficient design principles.

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Company Background

Based in Pennsylvania, PennTech Machinery Corporation is a world leader in the manufacture of complete aseptic vial production lines. Since founding in 1992, success in performance and reliability has led to an ever increasing and diverse product line. PennTech's specialty lies in low-to-medium speed applications; however, our product line includes many machines exceeding 400 vials per minute. PennTech's machine design philosophy is "soft" rather than "hard"; servo motors rather than gears, belts, and chains. Their mottos are "Less is more" and "Smaller is better". In doing so, their U.S. made equipment has a very small footprint, making them easy to maintain, changeover, and operate.

Product Overview

Continuous aseptic processing has significant advantages. In less than 30 minutes, a vial goes from the vial washing machine, to the sterilization/depyrogenation tunnel, to the filler/stoppering/capping machine and (for those requiring it) into the external vial decontamination machine with no operator intervention or re-contamination.

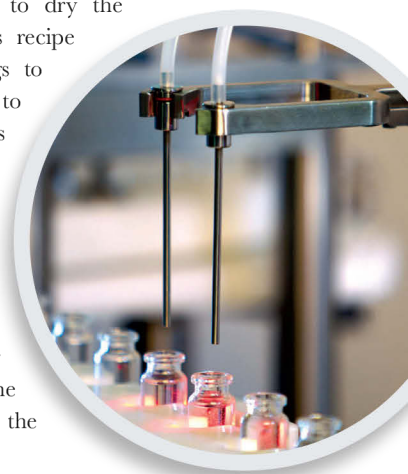
The objective of vial washing is to remove particulate matter and microorganisms. Traditional vial washers have many moving parts in the washing chamber, all of which generate particulate matter. PennTech washers have only two moving parts and their main drive is servo-driven. Specific settings for spray time and indexing time reduce water consumption, resulting in a highly efficient vial washing process.

PennTech offers an effective method of loading vials into the depyrogenation tunnel. Keeping control over the vials at all times, vials are fed from the vial washer via a sanitary conveyor before gently being pushed into the tunnel by an oscillating pusher. No format parts are required. This is essentially a set-it-and-forget-it automatic process requiring no operator intervention.

PennTech's range of compact tunnels are designed for the continuous sterilization/depyrogenation of pharmaceutical glass containers, using hot air, in a class 100 environment according to US Federal Standard 209E. For this purpose, the tunnel has three chambers, each provided with HEPA-filters: the infeed chamber, the sterilizing chamber, and the cooling chamber.

When it comes to liquid filling, PennTech offers the FS(C) series, which is comprised of single and dual filling, and stopper/inserting machines, with or without the capping function, and is designed for 2ml to 100ml vials with an output of up to 200 vpm. The compact in-line design features Allen Bradley components and is equipped with servo motors.

If you are looking for an external decontamination vial washer, PennTech's EVW-Series is the industry's only in-line decontamination system to completely encapsulate vial caps with a watertight seal. This allows for increased washing pressures for a thorough cleaning of the entire vial body, including the bottom, which is exposed to the water jets. Compressed air is used to dry the vials before discharge. The set-up is recipe driven with automatic height settings to accommodate containers from 2ml to 500ml. With an output up to 400 vials per minute, 13mm and 20mm caps can be processed on the machine without needing to change parts. However, a typical changeover only requires exchanging the infeed and outfeed timing screws. It takes five minutes and is tool-less. The piping for washing and drying, as well as, the electrical control system is housed in the base of the machine.



Testimonial

"The RW-250 has allowed us to raise the bar on our aseptic vial washing process, as well as, cut costs associated with it. PennTech's machine engineering industry expertise truly speaks for itself. While there are other companies that may be able to satisfy our needs, PennTech has truly found solutions for compounding pharmacies that mimic Big Pharma in a smaller package. I strongly recommend others in my industry to explore what PennTech can do for their business."

— Hallandale Pharmacy

Key Customers

Atlantic Pharmacy & Compounding, Amgen, AstraZeneca, Bayer Pharmaceuticals, Boehringer Ingelheim, Bristol-Myers Squibb, Central Drugs Compounding, CSL, Eisai, Eli Lilly and Company, Empower Pharmacy, Fusion Rx Compounding, Genentech, Genzyme Corporation, Gilead Sciences, GlaxoSmithKline, Hallandale Pharmacy, JCB Labs, Johnson & Johnson, Medi-Fare Drug, Merck, Novartis, Park Compounding, Pfizer, Roadrunner Pharmacy, Roche, Sanofi, TEVA, and many more.

Ordering Information

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