



Subsurface Filler

Imagined

Develop a fully automated and highly accurate filler with flexibility to accommodate a wide range of container sizes and geometries with efficient changeover.

Engineered Solution

Developed a highly reliable yet flexible subsurface filling platform offered with 'net-weigh' or 'mass flow' fill controls yielding accurate and repeatable results.

Fully automated, multi-head, subsurface filler with continuous container indexing and diving lances for dedicated container sizes. Appropriate for products that foam up during traditional top filling methods due to air entrapment. Machine is constructed entirely from 300 series stainless steel and is wash down rated.

Incorporates flexible features for processing multiple container shapes and sizes on a single platform.

System is offered as a traditional net weigh filler, or as a mass flow filler, incorporating highly accurate Coriolis type flow meters.

Optionally included is a VFD controlled pump via an external digital potentiometer, enabling the controlled pressure ramp up at the start of each fill cycle and pump shut off at the conclusion of each fill cycle to prevent dead heading.

All interchangeable lance type nozzles are supplied with quick sanitary disconnect couplings for easy switch out. All nozzle assemblies are mounted on slideable bearing rods for quick and efficient positioning to accommodate the required range of container geometries.

Nozzles include positive shut off feature.



While filling in a gravimetric mode, unique pop up stations housing the load cells raise the container off of the conveyor surface to isolate the product for accurate and repeatable fill weights.



Product specific nozzle lances are lowered into the container prior to initiating the fill cycle. Nozzles remain subsurface of the product throughout the fill cycle, thus eliminating the opportunity for air to be entrapped.

Equipment comes standard with a retractable drip pan to catch any product drippings between fill cycles.

