

SYRINGE FILLING MACHINE MODEL 1100

Filling syringes quickly when run lengths are too short to warrant fully automatic machinery is a continual problem for both manufacturers and contract packagers. Typical systems fill one syringe at a time and require the operator's presence during the entire operation. The amount of fill is either controlled by eyeball, time or positive displacement. Eyeball has the obvious problems of accuracy, time/pressure is feed and viscosity dependent, and positive displacement requires involved clean-up and, in the case of abrasive materials, high wear rates and potential contamination.

To solve these problems TRIDAK designed its Dual Filling System. This system overcomes the problems described as follows:

A. Two syringes are handled simultaneously (Although the dispense cycles are actually independent).

B. The operator does not have to hold or watch the syringes during a cycle. Once the syringes are located on the nozzles the machine automatically grips and holds the syringes so the operator is free to get two more syringes while the first two are filling.

C. The adjustable level, dual photo sensor automatically senses each syringe plunger when it reaches the full position. This ensures an accurate fill while avoiding the problems previously described.

D. When the cycle is complete the same gripping system that holds the syringe in place pulls the syringe off the luer taper and ejects the syringe into a waiting container or onto a conveyor.

The machine is not restricted to Luer adapters and can be ordered to accept virtually any type of common syringe. Total machine cycle time is dependent on fill volume but is generally between 2 and 5 seconds.

