

# Ink Cartridge Filler

# **Imagined**

Develop a highly automated, universal cartridge filler for the ink industry to fill 4.4 lb and 8 lb cartridges by weight, and with minimal changeover time.

## **Engineered Solution**

Universally adaptable to process a wide range of cartridge geometries, with toolless changeovers in 10 minutes or less. Fully automated design with built in flexibility to fill by weight and selectively spray cartridges (pre- and post-fill) with antioxidant. Equipped with a high volume, floor standing, cartridge hopper, a plunger accumulator for continuous and uninterrupted processing, and an integrated labeling station.



## **FEATURES**

## Cartridge Bulk Bin Hopper:

- Inclined, cleated belt conveyor and cartridge singulator mounted within a stainless steel hopper, equipped with polycarbonate front guards.
- Capacity:
  - 400+ 4.4 lb cartridges
  - 250+ 8 lb cartridges

#### **Five Station Base:**

- Cartridge Load Station positively positions cartridges within cleats of the indexing conveyor.
- Primary Antioxidant Dispense Station pneumatically driven to spray antioxidant to the interior wall of the cartridge length prior to filling.
- Gravimetric Servo Driven Fill Station fills cartridges from the bottom up by weight.
- Secondary Antioxidant Dispense Station pneumatically driven to spray antioxidant to the top of the ink surface after filling and prior to plunger insertion.
- Plunger Insertion Station pneumatically presses plungers into the filled cartridge while venting the displaced air, and is equipped with a linear transducer to monitor plunger insertion depth.

#### Labeler:

10' long x 3" wide tabletop conveyor with label applicator station.

### Plunger Accumulator:

- 10 long x 1.75 wide belt conveyor mounted above and inline to labeler conveyor.
- Integrated with plunger escapement mechanism to singulate and load plungers into plunger track.

# **SPECIFICATIONS**

#### **Controls:**

- Allen-Bradley CompactLogix PLC with Ethernet
- PanelView Plus Compact 1000 Touch Screen HMI
- Digital Net-Weigh Fill Controls
- 230 VAC or 460 VAC, 3 Phase

# Throughput:

- 4.4 lb cartridges 10 per minute
- 8 lb. cartridges 7 per minute



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