

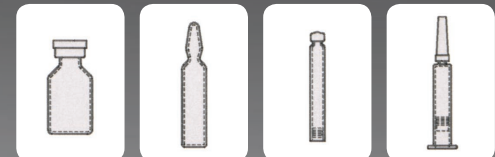


DI-100 LT/XL

Semi-automatic
Inspection Machine

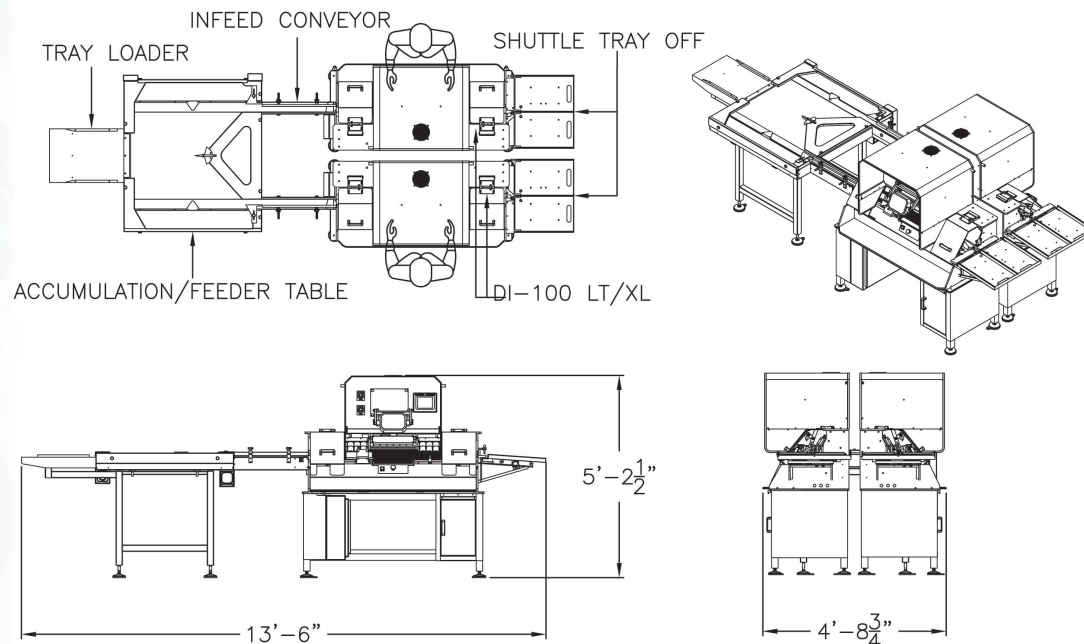


Innovative Designs



The DI-100 LT/XL Inspection System was designed to perform visual inspection of Vials, Ampoules & Syringes and Cartridges minimizing product handling.

This machine can handle a wide range of container types and sizes. Its max operating speed is 150 pieces per minute. Using one DI-100 LT/XL machine one operator can reach the same productivity of 4-5 operators in a typical manual-inspection process.



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Main Technical Features

PRODUCT CAPABILITIES:

Liquid, Lyophilized, Powder and Empty Containers

Inspection Criteria

AMPOULES

Particles
Fill level
Ampoules tip (static and dynamic)
Cracks and scratches on ampoules body

CARTRIDGES

Cake surface (for Freeze dried products)
Filling level (air bubble presence)
Alu-cap (crimping, dents, etc.)
Stopper presence/absence
Plug crowning
Plunger (presence, position, orientation, liquid between ribs, etc.)

VIALS

Fill level
Cake surface (for Freeze dried products)
Alu-cap (crimping, dents, etc.)
Stopper presence/absence
Cracks and scratches on vials body

SYRINGES

Fill level
Cake surface (for Freeze dried products)
Finger grip (flange) and plunger presence
Cracks and scratches on the whole syringe barrel
Needle cover (damaged, bent)
Plunger (presence position, orientation, liquid between ribs, etc.)

AVAILABLE OPTIONS

- Automatic reject: break beam curtain or push button type
- Reject classification: 4-6 categories
- Validation master plan package
- Modular infeeds/outfeeds for multiple containers
- Quick container size changeover
- Repeatability options for inspection aids
- Customizable recipes
- Back to Back configuration
- Dual hood/inline configuration
- Complete line integration: including accumulators, turntables and conveyors
- Rate, infeed, outfeed and reject counters
- Adjustable inclination of roller transport

TECHNICAL SPECIFICATIONS

Inspected Containers: Vials, Cartridges, Syringes, and Ampoules

Container Sizes:

Vials: 1ml (.300"/7.62mm dia) - 1000ml (5"/127mm dia)
Syringes/Cartridges: 1ml (.270"/6.86mm dia) - 100ml (1.7"/43.18mm dia)
Ampoules: 1ml (.250"/6.35mm dia) - 50ml (1.1"/27.94mm dia)

**Other container sizes available upon request*

Machine Speeds: Up to 150 parts per minute (container specific)

Pre-spinning: 2500 rpm max adjustable

Low Spin: 2 - 3 revolutions per container adjustable

Lighting (LED):

Top Tyndall: over 700 foot-candles
Bottom Tyndall: over 700 foot-candles
Back Lighting: over 500 foot-candles

Infeed:

Vials: Turning block or starwheel
Syringes/Cartridges: Worm screw or starwheel (needle down or up)
Ampoules: Starwheel

Outfeed: Turning block, worm screw or starwheel

Auto infeed reject: Cosmetic-stopper, cap and crimp

Output reject: 4-6 reject categories

Loading Height: 815 mm - 915 mm (32" - 36")

Loading:

Vials/Cartridges: Accumulator, turntables & conveyors
Syringes: Inline belt conveyor
Ampoules: Flat belt conveyor for trays/tray loading

Services Required: 120V 60hz

Noise: < 75 dB(A)

Dimensions: LxWxH
1448 x 685.8 x 1651 mm (57" x 27" x 65")
Basic machine (without infeed units)

The information given on this data sheet is accurate as for the date of issue. Nothing herein shall be deemed to constitute a warranty, explicitly or implicitly. It is the user's responsibility to determine the applicability and suitability of such material to any particular purpose.