

SEMI-AUTOMATIC INSPECTION MACHINE

VIALS

SYRINGES

AMPOULES

DI-100 LT



DABRICO INC





The DI-100 LT Inspection System was designed to aid in the visual inspection of Vials, Ampoules & Syringes while minimizing product handling. Our inspection machine is capable of handling multiple container types and sizes making it the only machine you will ever require for your semi-automated inspection needs. With operating speeds of up to 150 parts per minute, one operator can produce at the same level as 4-5 operators in a typical manual inspection process. Due to the technology, quality and service we have given in the past, pharmaceutical manufacturers have turned to us once again, for projects of all sizes.

Main Technical Features

PRODUCT CAPABILITIES:

Liquid, Lyophilized, Freeze dried,
Powder & Empty containers

INSPECTION CRITERIA:

AMPOULES

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

VIALS

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

SYRINGES

Particles
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, liquid
between ribs etc...)

CARTRIDGES

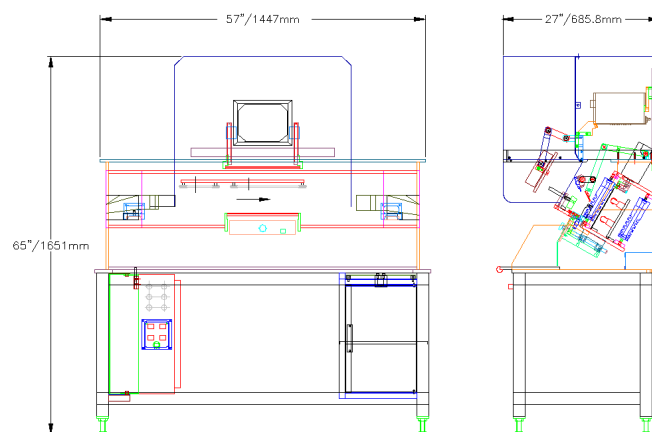
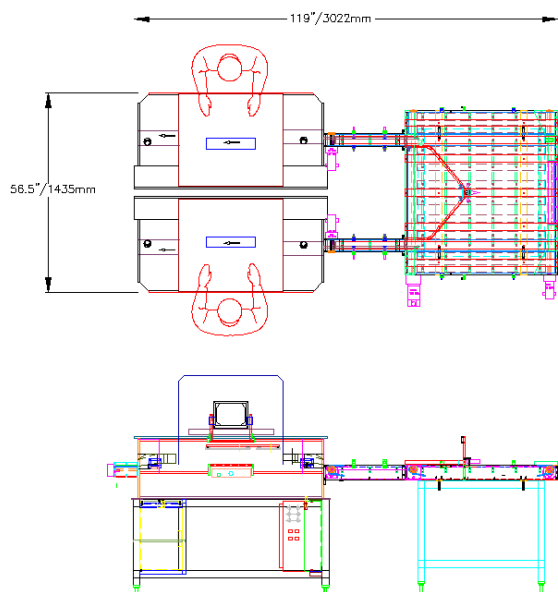
Particles
Cake surface (for Freeze dried products)
Filling level (air bubble presence)
Alu-cap (crimping, dents etc...)
Stopper presence/absence
Plug crowning
Plunger (presence, position,
orientation, liquid between ribs etc...)
Cracks on bottom edge
Cracks and scratches on cartridges body

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
- Complete line integration: including Accumulators, Turntables, & Conveyors
- Rate, infeed, outfeed, & reject counters

Technical Specifications

Inspected containers:	Vials/Cartridges, Syringes, and Ampoules
Container sizes:	
Vials/Cartridges:	1ml (.300"/7.62mm dia) - 1000ml (5"/127mm dia)
Syringes:	1ml (.270"/6.86mm dia) - 100ml (1.7"/43.18mm dia)
Ampoules:	1ml (.250"/6.35mm dia) - 50ml (1.1"/27.94mm dia)
Machine speed:	up to 150 parts per minute
High spin:	motor 2500 RPM
Low spin:	2 - 3 revolutions per container
Lighting:	
Top tyndall	up to 500 foot-candles
Bottom tyndall	up to 500 foot-candles
Back lighting	up to 350 foot-candles
Counters:	Infeed/Outfeed total count
Infeed:	
Vials/Cartridges:	Star wheel or Turning block
Syringes:	Worm screw & Star wheel
Ampoules:	Star wheel
Outfeed:	Star wheel or Turning block
Auto infeed reject:	Cosmetic - stopper, cap, and crimp
Output reject:	4-6 reject categories
Loading heights:	32"/812.8mm - 36"/914.4mm
Loading:	
Vials/Cartridges:	Accumulators, Turntables, & Conveyors
Syringes:	InLine Conveyor and/or Denester
Ampoules:	Conveyor for trays & InLine
Services required:	115 VAC, 15amps (other configurations available)
Noise:	< 80 dB(A)
Dimensions: LxWxH	57"/1448mm x 27"/685.8mm x 65"/1651mm



Engineering design so simple it's brilliant