



# VAL550 Labelling Systems



## Description

The VAL550 is a high-speed labelling system for pharmaceutical containers, including ampoules, vials, syringes, bottles and cartridges. Combining the latest electronic systems with high quality mechanical engineering, the VAL550 provides accurate and reliable high speed labelling.

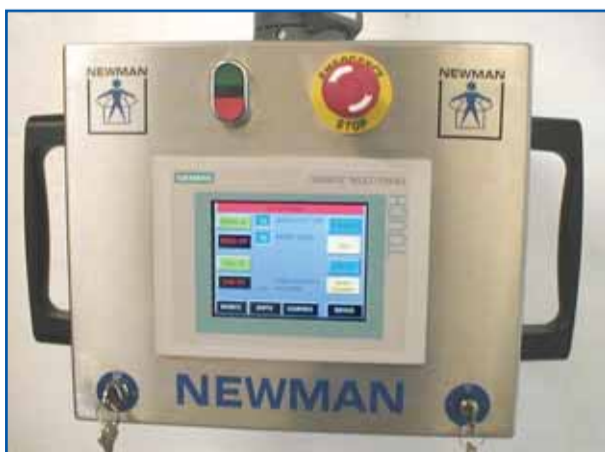
Designed specifically to meet the requirements of the international pharmaceutical industry and all of the industry's regulatory bodies, including the FDA.



Ampoules and vials bulk feed from trays

## Operation

Containers are fed either from trays (off-line operation) or automatically from upstream machinery (on-line operation) to the VAL550 infeed starwheel. Container flow is controlled via a simple 'blade' gating assembly. Containers pass to the labelling point, a sensor triggers the label feed, the leading edge of the label is driven off the backing web at a linear speed which matches the container speed. This ensures smooth, accurate placement on the container surface. The container, gripped between an applicator belt and presser pad, is controlled as the entire label is pressed firmly in place, ensuring high registration accuracy. The container, gripped between an applicator drum and presser pad, is controlled as the entire label is pressed firmly in place, ensuring high registration accuracy.



Colour touch screen control panel, Siemens

## Features

- 'Auto-teach' label length facility
- Non-synchronous container feed without scroll feed
- cGMP design
- Positive-accept security system
- Container feed by tray-in, tray-out feed, or in-line configurations
- Accurate label application
- Gentle container handling
- Extreme versatility for different applications
- Full regulatory compliance
- Hot foil coding unit
- Digital scales for rapid container changeover
- Fully validated security with critical device checking
- In Process Control - system verification without production stoppages
- Stainless steel 304 finish
- Validation documentation and implementation package
- Auto-reject system for both incorrect label data and missing label detection with reject verification
- Touch screen HMI with key switch access run mode and set up mode
- Counter package with full count reconciliation
- End of web detection
- High performance stepper for motor label web drive
- Siemens or Allen-Bradley PLC controls



Syringe feeding system

## Options

- Easisplice 470 module enables reel changes without labelling downtime
- Print-out facility available for production data
- Bar code reading systems
- Vision systems for OCV / OCR / barcode
- Colour cap or colour ring code verification
- Queue switch control
- Rotary infeed and outfeed tables
- Tray loading systems
- Thermal transfer, laser and inkjet printing options



Colour touch screen control panel, Allen-Bradley



Online feeding with rotary table

## Container Handling

Newman is a specialist in developing innovative solutions that ensure effective container handling whatever the type of container. The end result is fast and accurate label application with the minimum of breakages or rejects. Numerous techniques, including those illustrated, are available to suit individual customer requirements.



Duplex machines handling ampoules and syringes

## Validation

Newman provides a full validation service to FDA standards. Installation Qualification (IQ) is completed by Newman technicians during commissioning, along with Operational Qualification (OQ) which checks that the system operates to customer requirements. This procedure enables the customer's own Process Qualification (PQ) to proceed as smoothly as possible.

A comprehensive documentation package covering mechanical, electronic and software elements is included for each labelling system and sub-system.



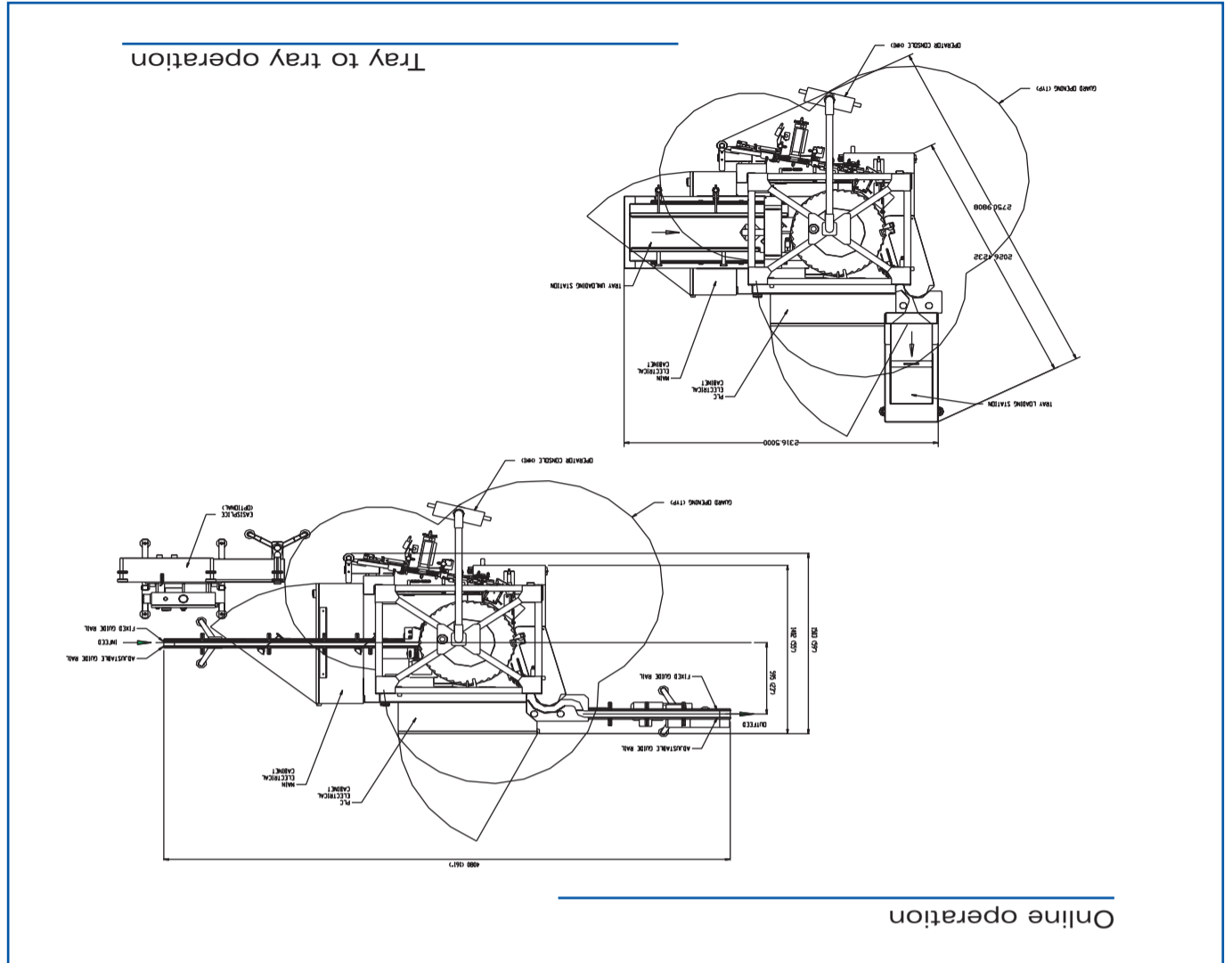
Full validation documentation

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**Standard Specification**

<b>Container diameter</b>	8mm-50mm
<b>Labels min</b>	12mm (H) x 20mm (L)
<b>Labels max</b>	100mm (H) x 160mm (L)
<b>Max. label reel</b>	450mm
<b>Min core diameter</b>	45mm
<b>Speed</b>	Variable up to 600 CPM
<b>Net weight:</b>	780 Kg
<b>Electrical supply:</b>	230V-1Ph-50Hz, 1KW (60Hz option)
<b>Compressed air:</b>	62psi/4.2 Bar
<b>Noise emission:</b>	<75dB @ 1M (subject to container type)

Newman policy is one of continual improvement. Illustrations and specifications cannot be held binding in detail.



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- A high-speed labelling system for pharmaceutical containers combining the latest electronic systems with high quality mechanical engineering.
- Outputs up to 600 c.p.m.
  - Accurate label application
  - Gentle container handling
  - Extreme versatility for different applications