



Vial Labelling

Easy and reliable operation

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The Vial Labeller from LSS has been designed with primary focus on user friendliness and maximum reliability when it comes to secure and gentle handling of vials.

At LSS we understand that the use of a machine within the pharmaceutical industry is not just the period of time when the machine is running, but equally important is the time spent on batch start/stop, format changes, line clearance, cleaning, maintenance and service.



We strongly believe in listening to the “voice of the customer” when developing our machines, and as a result of this you will, regardless of being an operator or a technician, find “special” features designed to ease the interaction with our machine.

Regardless of whether the LSS Vial Labeller operates as an in-line or off-line machine, vials are handled with the highest degree of safety and care.

The result of our design approach can not only be seen in the mechanical design of the machine modules where physical contact is made between machine parts and the vial, but also in the machine control system where all critical machine functions are monitored by counter control sensors.

- ✓ Extremely user friendly
- ✓ High process reliability
- ✓ Easy line clearance
- ✓ Short change over times
- ✓ Well proven labelling concept
- ✓ Visualized shift register for labels and vials
- ✓ Can operate both as an in-line or off-line unit
- ✓ Large doors for easy access to the machine

User friendly

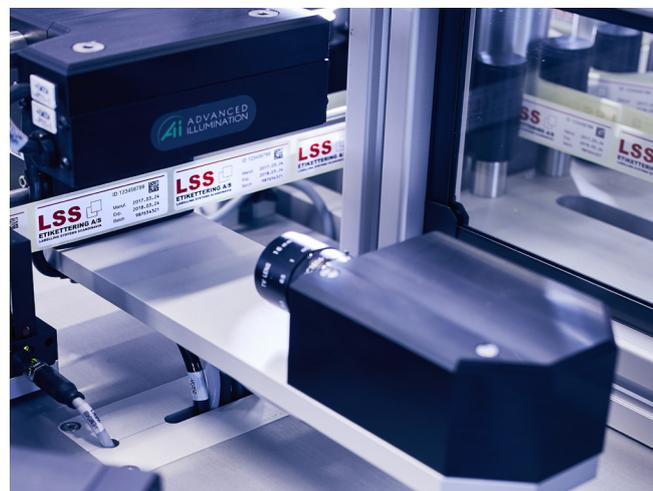
The Vial Labeller is operated from a color HMI. From here batches can be started or stopped, variable data can be sent to the printer and vision system, messages and alarms can be read and the overall machine status can be monitored. The main HMI on the operator side of the machine is duplicated so that an additional HMI can be viewed from the service position on the machine.

Changing format is made easy by ensuring that no time consuming manually mechanical adjustments are necessary. After selecting a predefined format on the HMI, the replacement of a few format parts is all that is required.

All machine components that needs positioning are placed on motor driven spindles and will automatically be adjusted when a format is loaded.

Access to the Vial Labeller for operation, line clearance, service or maintenance is made easy through the several large doors in the machine cover on all sides of the machine. Furthermore all machine components to where access is required, are placed easy accessible within short reaching distance.

For line clearance purposes the machine is designed with an absolute minimum of hidden slots, openings and visible wires and air hoses.



Inspection and control

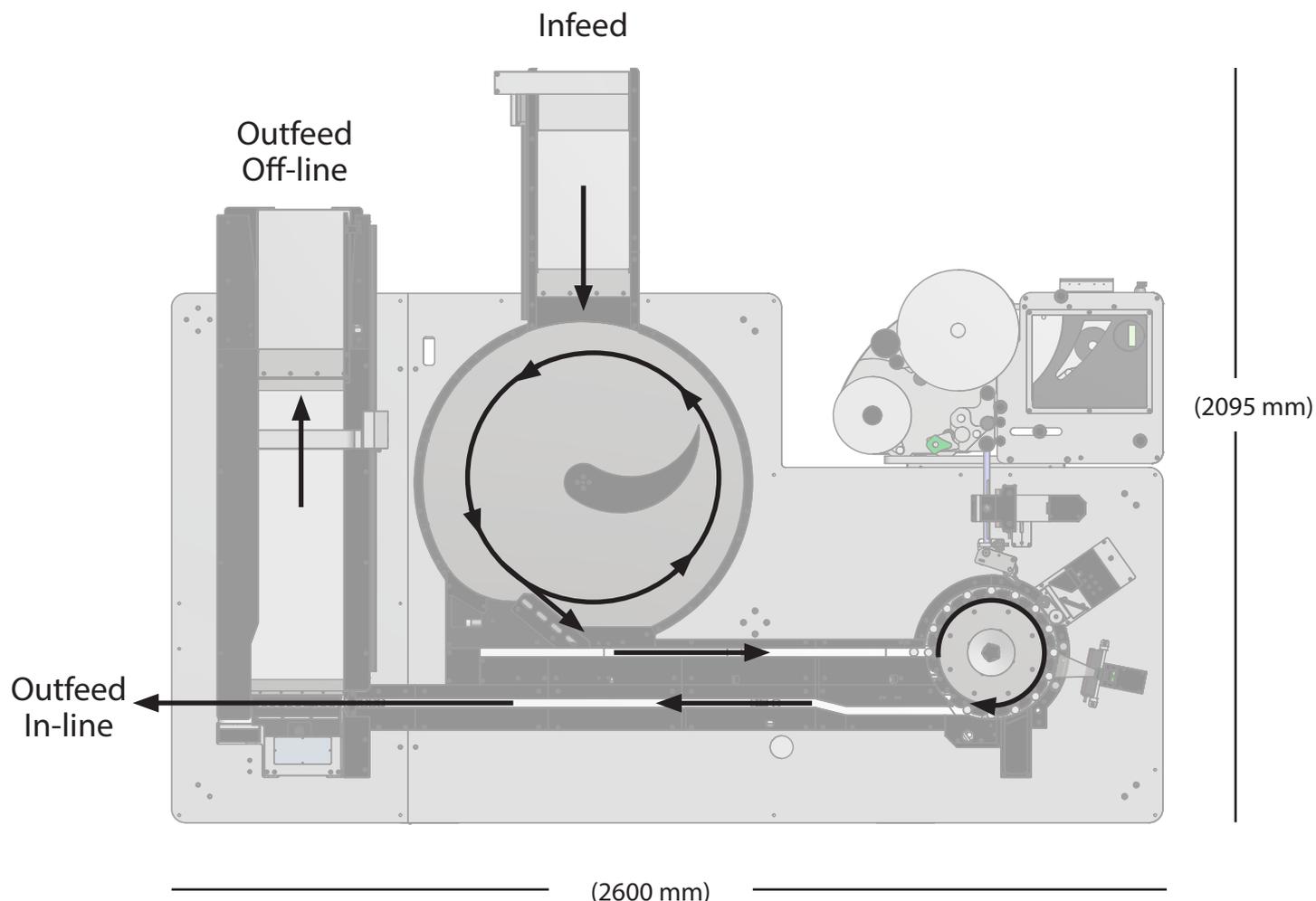
In the HMI a visualized shift register for labels and vials can be monitored. The shift register is related to the control functions that are integrated, and will in general consist of the following:

Vision inspection of the label after it has been printed but before it is applied to the vial. Inspection of printed information, label ID etc. Non-approved labels are rejected before application at the label reject station. Functionality of reject station is monitored by counter control sensors.

Vision inspection of the vial after the label has been applied. Inspection of label presence/position, presence of cap etc. Only approved vials are allowed to leave the index wheel. Non-approved vials are rejected at the vial reject station. Functionality of reject station is monitored by counter control sensors.



Facts and specifications



Facts / Specifications		Options
Products	Vial, Bottles	Format parts for multiple product sizes
Product material	Glass and plastic	Print on label with thermal transfer printer or laser
Product diameter	ø14 mm - ø50mm	In-line and/or off-line execution
Product height	Minimum 30 mm	Automatic height adjustment of complete machine
Label size	Minimum width 15 mm	Vision inspection of label before application including reject of non approved labels
Label material	Paper, PP, PE	Vision inspection of vial after labelling including reject of non approved vials
Machine capacity	Up to 300 vials per min.	

LSS - Labelling Systems Scandinavia
 Normansvej 8
 DK-8920 Randers NV
 ☎+45 7020 2500

www.lss-dk.com

LSS 
 LABELLING SYSTEMS SCANDINAVIA