

I thought it was time to get some more specific information to you on the specification for your new LE-100 shrink sleeve label applicator system, now that we have confirmed that we can adapt this system to suit your taller bottles and after our discussions with Rob Splatt (from Splatt Engineering) about a single conveyor from their Mono Block filler on to the LE-100 applicator that we are supplying.

We are discussing further with Rob exactly how we will go about interconnecting with his out-feed conveyor and this discussion is planned for tomorrow, Tuesday 30th March between Rob Splatt and our bottling line Engineer.

This will add approximately 500mm to the conveyor length and the total length at this stage should be 6.5 meters.

Benison LE-100 Fully Automatic Shrink Sleeve Applicator System:

The Benison LE-100 Automatic shrink label applicator is a flexible and compact system, which has been designed to fit into most existing production lines with a minimal amount of adaptations required.

The system can be positioned over an existing conveyor, or we can supply it equipped with its own conveyor as a standalone system. In this case we have quoted for it to be equipped with its own 6.5 meter conveyor, which will be directly connected to the outfeed from the Mono Block bottling system. We no longer need the timing screw which is shown on the engineering drawing, as the bottles will already be spaced as they exit from the Mono-Block filler supplied by Splatt Engineering, so this entry onto the conveyor will now be used as a transition from the filler and will become a single conveyor. We will show this on our final engineering drawings.

This shrink sleeve applicator can apply shrink bands to a variety of container shapes and sizes, including round and square and can be applied to glass, PET or various types of plastic bottles and containers.

The process of changing from one bottle / jar size is quick and easy and can be achieved in less than 10 minutes. This machine will be supplied with three label forming mandrels and two cutter plate assemblies. This will mean all three bottle sizes can be labelled.

One cutter assembly will work for the 250ml and the 500ml bottles with the second cutter assembly being for the 750ml bottles.

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The LE-100 is constructed from stainless steel, and aluminium, for long life, and the prevention of rust and corrosion, particularly in wet areas such as food production and bottling plants.

It is also ideally suited to pharmaceutical, cosmetic and health supplement applications.

Special Note:

Please note that due to the machine being adapted to suit all three bottle sizes, we have had to place the machine on a stand to give it extra height, as this is the best way to allow the machine to apply longer labels than is stated in the standard specifications for this machine. This means that the machine will stand 2310mm in height and this is without the light tower being fitted.

We do need to be sure that this is still workable with your ceiling height and we need your confirmation of the ceiling height in the area that the applicator will be located. Also some pics of the area please.

We can re-engineer the location of the light tower, once we have confirmation of your ceiling height.

It must also be considered, that the labels do run through the top of the machine, so space will be needed for an operator to have room to feed the film from the film holding bar at the rear of the machine and up over the top of the machine through the top panel.

The LE-100 Specifications & Film Capabilities

Film thickness 50 – 70 micron

Film lay flat widths 40 - 160mm

Label cut lengths 40 - 200mm

We have adapted the applicator to be able to apply longer labels to suit your extra length labels. This is what has increased the total height of the applicator as mentioned in the previous paragraph. The exact length of the shrink labels is yet to be confirmed by our engineers, but we are thinking in the vicinity of 235mm.

Power 3 phase / 380V, 50/60Hz

Air Pressure required NA

Materials available PVC, PET, OPS

Closure shapes Square, round, octagonal etc

Machine dimensions 1462mmL x 904mmD x 1540 to 1960mmH (New height 2310mm)

Application rates Dependant on closure & sleeve lengths, but up to 100BPM. To be reduced due to extra label length, but will confirm estimated speeds.

Standard Accessories Include:

LE-100 Applicator Complete.

Film un-wind device Made of aluminium, will accommodate 3" or 5" cardboard cores.

Cutting mechanism Cutting mechanism designed for fast smooth label cut.

Label - cap detection device

Alarm lamp with buzzer Trouble shooting mechanism.

Servo motors 750W x 2

Operation:

The LE-100 applicator will cut and present each cut sleeve, ready to be applied to the next approaching bottle. Once the sleeve is released, the next sleeve is cut ready for the next bottle.

The cutter system comprises a set of cutting blades, that rotate and cut the film in a circular motion.

The cut sleeves are cut from 500M rolls of lay flat tubing that are located on the LE-100 applicator machine.

After the band is applied, the container continues through the WS-130LEX1 steam shrink tunnel and the process is complete.

Benison Self generating steam tunnel model WS-130LEX1:

Our range of steam shrink tunnels are designed to give the best possible results when shrinking full length or partial length printed shrink labels or tamper bands.

Our latest range of WS-130 steam tunnels all boast independently controlled levels of steam outlets in each of its chambers. Add to this the capability of both horizontally and vertically controlled steam rails and you have a steam tunnel which is second to none for the quality of label finish.

Steam tunnels will always give better results over hot air tunnels, especially where an automatic label applicator is installed.

This versatile and easy to use Heat tunnel is designed to sit over a custom conveyor, which is designed to catch condensate and channel it back into a water holding tank for re-use. Conveyor is included.

The tunnel will need to be plumbed to a water outlet, using a standard diameter hose and into the valve-controlled water tank. This is the care of Brisbane Distillers and is a 5/8" water inlet.

These tunnels also have shroud caps over each end of the tunnel. Each shroud cap has a steam extraction funnel, which you can connect to an extractor fan system if required. The diameter of the outlet for steam extraction is 5". Any extractor system is the care of Brisbane Distillery.

The tunnel requires 3 phase power to run the self-contained steam generator and I will confirm the required amps.

The supply of power to the applicator and steam tunnel is the care of Brisbane Distillery.

Please see video attached.

Items included in the proposal:

1 x LE-100 Shrink sleeve label applicator, adapted for use with longer labels for your taller bottles.

1 x Print registration sensor.

3 x label forming mandrels. One for each bottle size and shape.

2 x cutter assemblies.

2 x label brushing units, to ensure the location of each label is correct.

1 x WS-130LEX1 self-contained steam tunnel.

6.5 meters of top chain conveyor.

Your Care:

The fitting and commissioning of this system will be done in conjunction with your engineers, to ensure that the system is installed and commissioned correctly. D&L Packaging will assemble and commission the complete system, but it is the care of Brisbane Distillery to supply and connect services to the machine. Power to the LE-100 applicator and to the WS-130LEX1 heat shrink tunnel is part of the scope for Brisbane Distillery. Water to the Steam tunnel is also part of your care.

We will need Brisbane Distillery to ship 60 to 80 containers and caps to our Taiwan based factory for use in trials during the manufacturing and factory commissioning process. This has already been done, although at the time of compiling this report, I am not sure how many are there.

If onsite commissioning is not able to be undertaken due to Covid lockdowns, then we will need to organize video meetings to assemble, and commission this system by your on-site engineers under our full instruction. Hopefully borders will be open for us to be on site.

Payment Terms and Conditions:

Our standard terms of payment on this type of machinery is 40% deposit with a written order, 50% before the system leaves the country of origin, with the final 10% on delivery and commissioning.

The 40% deposit has been paid and receipted, so we are hoping to get all the finer details together quickly, to enable this system to be put into full production.

Other:

It was agreed that the price indicated in our original correspondence dated March 9th 2021 would be the system, less the timing screw, plus Other items that may be required, including contingency for linking to the outfeed conveyor of the filler, plus a rotary collection table and any other items that may be required and agreed upon.

Printed Shrink Sleeve Labels:

D&L Packaging are able to offer the supply of your shrink sleeve labels for all your shrink sleeve label needs.

We are happy to look at your art work, supply print die lines for your art people to place the art work in the correct position on your labels and ensure that all seams and folds are in the best possible position for (in particular) your rectangular 750ml bottles. I say in particular your 750ml bottle, as it is critical that these things are correct on square and rectangular bottles.

Summary:

In summary, we are now agreed on the base system and what we are to undertake both with our system and any connection to the filler.

We just need confirmation and images of the space that the system will be installed into along with the ceiling height and confirmation that the 2310mm height of the machine is not going to be a problem.

I hope I have covered everything for now, but if there is anything that you are unsure of, or that you want to discuss, please get back to me and we look forward to the information from you.

We look forward to working with you in jointly achieving the best possible outcome for your range of bottle labels.

Yours faithfully
Digby Morton

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