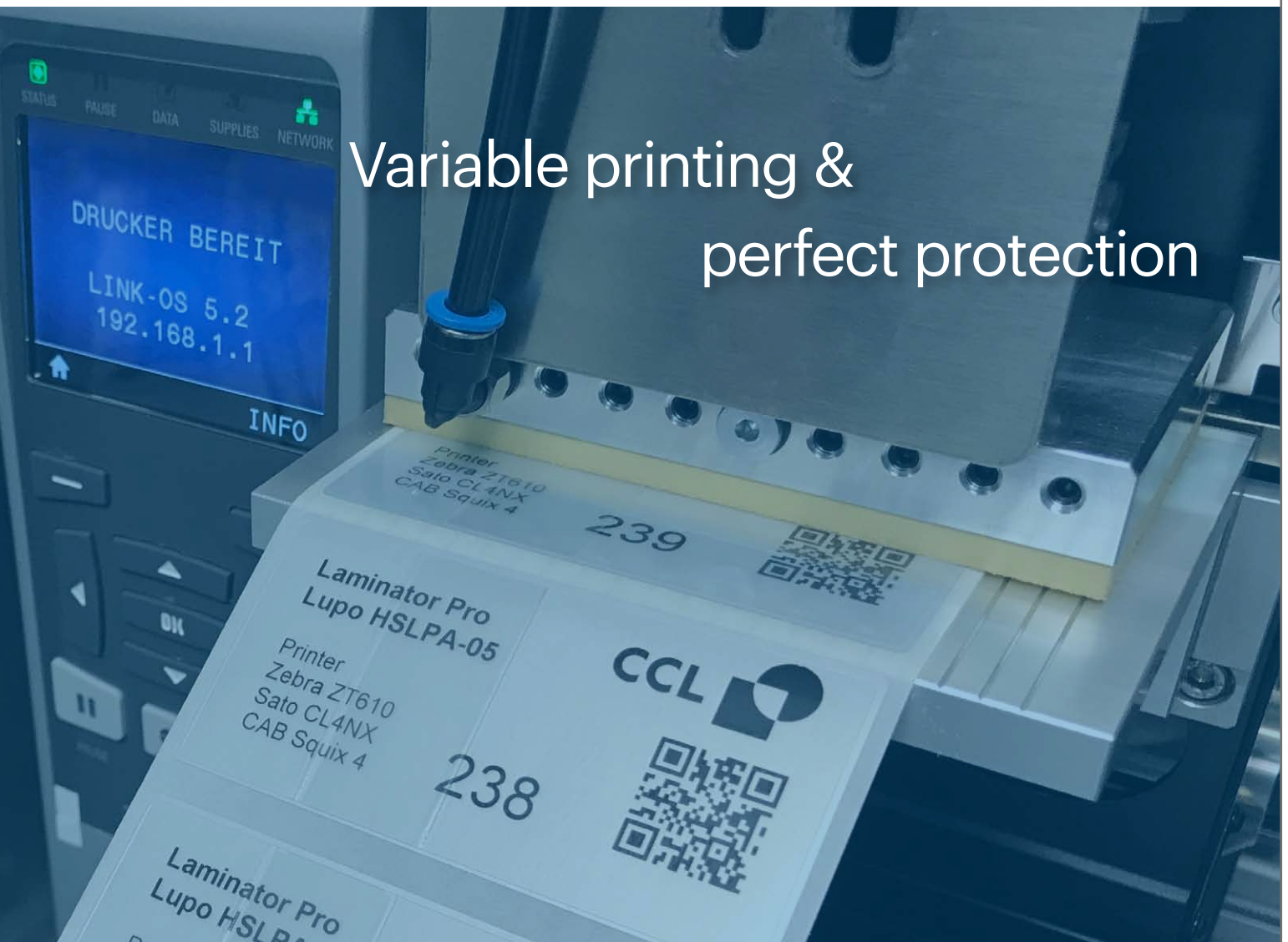


Variable printing & perfect protection



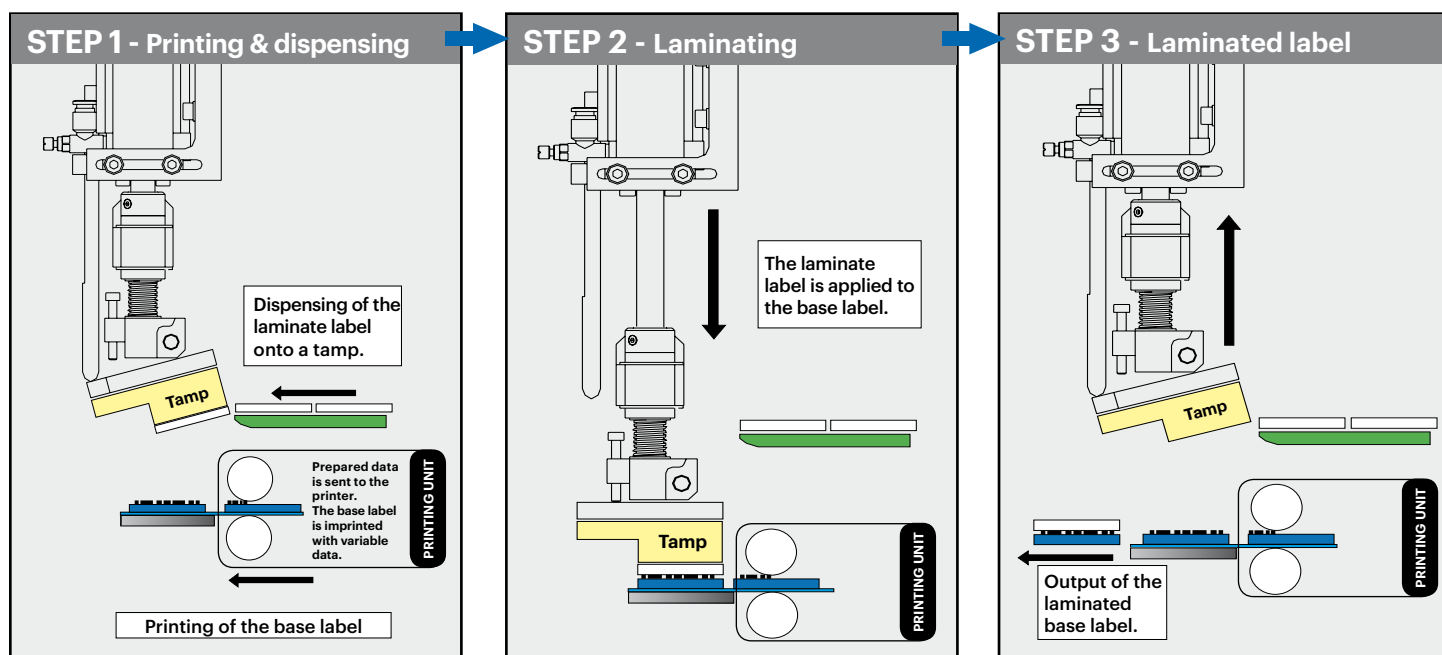
PRINTING, DISPENSING, LAMINATING - IN ONE STEP TO A PERFECT PROTECTION

The combination of a thermal transfer printer, a label dispenser, and an application unit

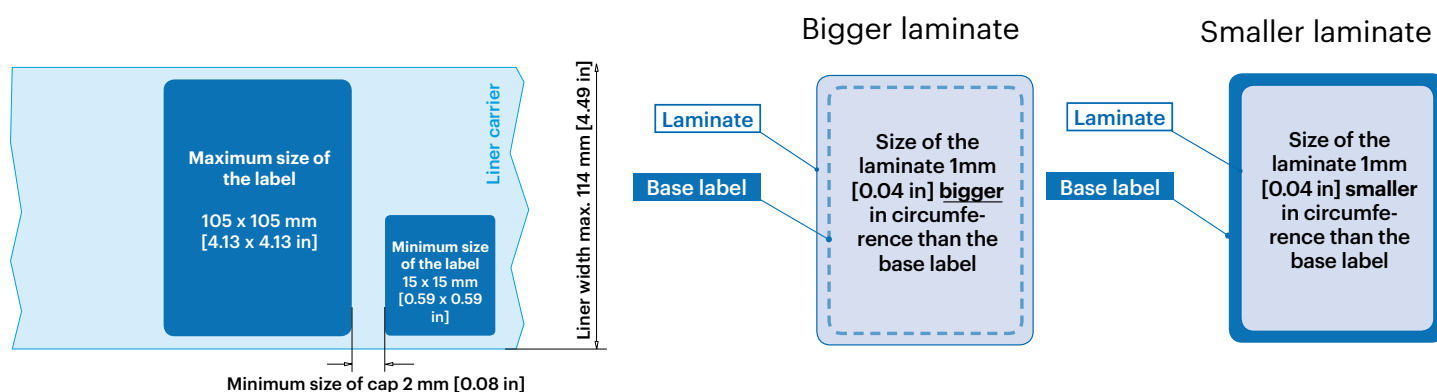
In spite of the high quality of thermal transfer films, the imprint often cannot withstand all external influences. Thermal transfer printed labels are exposed to multiple environmental and production induced influences. Mechanical stresses or aggressive media can make unprotected labels unrecognizable or can even completely destroy them.


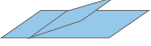

By applying a laminate label, the imprinted base label underneath will be protected permanently. Different label shapes and sizes can be laminated. The laminate that is to be applied should be either bigger or smaller in size than the imprinted base label. Multilayer laminated labels for complex production processes, such as powder coat and paint, can be produced precisely and accurately. Please see below the process of the HSLPA-05:

3 STEPS TO A PERFECT PROTECTED LABEL



PRINTING, DISPENSING AND PROTECTING



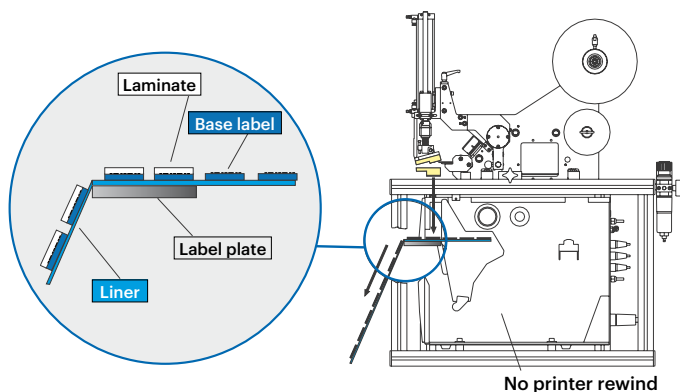
	Laminator PRO - For Experts	Laminator ECO - For Beginners
Lamination tolerance	Up to ± 0.5 mm [0.02 in]	Up to ± 1 mm [0.04 in]
Application	A+B+C	A
Laminat types	One layer laminate  Multi layer laminate with pull tab 	One layer laminate 
Laminate sizes	Various laminate sizes can be used	Used for one laminate size
Control	Flexible control unit with touchpanel	Simple control unit without input panel

APPLICATION VARIANTS

Application A (Laminator PRO & Laminator ECO)

Multiple parts - material exiting in the front

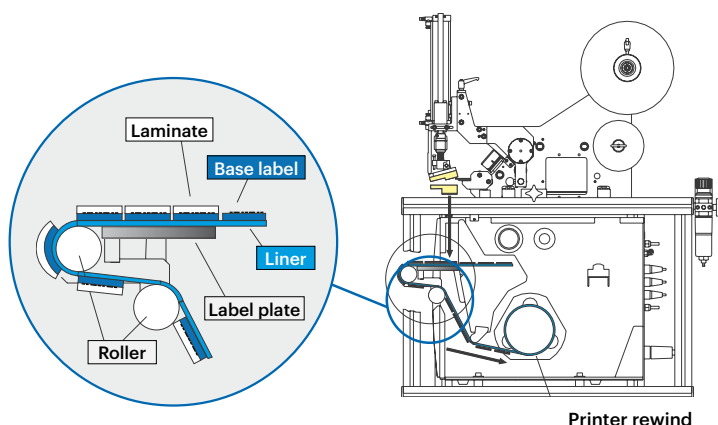
- After the data transfer, the system works through the print order in succession. The labels are consecutively printed and laminated until the print sequence is completed.
- The material exits the system freely.
- Printing data: x pieces



Application B (Option: Laminator PRO)

Multiple parts - material is wound up

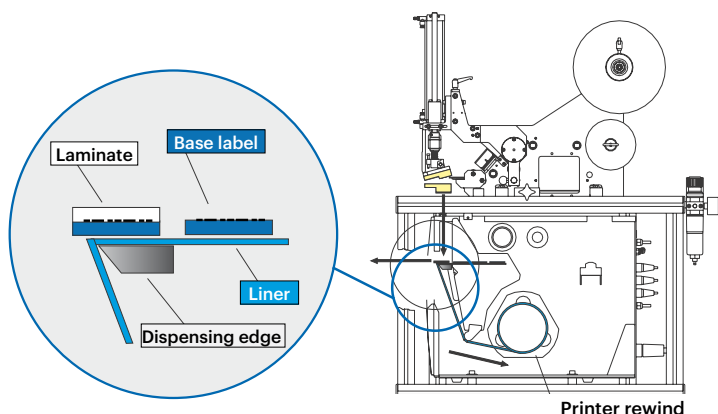
- After the data transfer, the system works through the print order in succession. The labels are consecutively printed and laminated until the print sequence is completed.
- The material is rewound inside the printer.
- Printing data: x pieces.



Application C (Option: Laminator PRO)




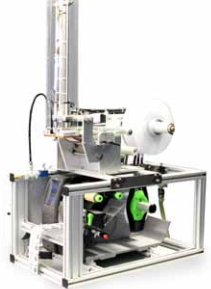

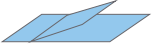
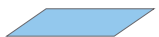
Single parts - material is removed by hand

- After every data transfer, one base label is imprinted and laminated. The laminated base label advances 2-3mm [0.08-0.12 in] past the dispensing edge and can be removed from the carrier.
- The liner is rewound inside the printer.
- Printing data: 1 piece



LAMINATOR PRO / ECO

Variable printing & perfect protection

Technical data	Laminator PRO (Lupo HSLPA-05-PRO)	Laminator ECO (Lupo HSLPA-05-ECO)
	 	 
Thermal transfer printer	Zebra, Sato, CAB	
Cycle time	Approx. 4 sec. depending on label size and printing density	
Lamination tolerance	Up to ± 0.5 mm [0.02 in]	Up to ± 1 mm [0.04 in]
	Laminating accuracy laminate dispenser (printer tolerances not considered)	
Max. media width/print width	Sato	128 mm [5,0 in] / 104 mm [4 in]
	Zebra	114 mm [4,48 in] / 104 mm [4 in]
	CAB	120 mm [4,72 in] / 105,7 mm [4,16 in]
Base label size (Thermal transfer print)	min. 25 x 18 mm [1 x 0.7 in] max. 105 x 105 mm [4.13 x 4.13 in]	
Laminate size	Min. 1 mm [0.04 in] bigger/smaller than the base label	
Laminat types	One layer laminate  Multi layer laminate with pull tab 	One layer laminate 
Base label gap	Min. 3 mm [0.12 in]	
Laminate label gap	Min. 3 mm [0.12 in]	
Voltage Hz power	230V/115V 50/60Hz 5A (three-pin plug)	
Operation pressure (air)	Min. 5 bar [14,5 psi]	
Dimensions (approximate)	HxWxD [mm] 1000 x 500 x 900 HxWxD [in] 39.37 x 19,68 x 35,43	HxWxD [mm] 1100 x 500 x 700 HxWxD [in] 53.31 x 19,68 x 27,56
Main features /Difference	<ul style="list-style-type: none"> • Application A+B+C • Complete housing • Robust mechanics with slewing stamp • Monitoring laminate on stamp • High labeling accuracy • Flexible control unit with touchpanel <ul style="list-style-type: none"> - Setup input - Dispenserparameters can be stored - Various laminate sizes can be stored • Various laminate sizes can be used • Laminate size change <ul style="list-style-type: none"> - Low mechanical effort - Stored laminate sizes • Additional options available (e.g. signal lamp) 	<ul style="list-style-type: none"> • Application A • No complete housing • Less robust mechanics without slewing stamp • No monitoring laminate on stamp • Lower labeling accuracy • Simple control unit without input panel <ul style="list-style-type: none"> - Fixed control sequence - Dispenserparameters can not be stored - Various laminate sizes can not be stored • Preferably for one laminate size

Dispensing Systems

With our dispensing systems you can label many products in the flow the easy way. Whether round or flat products, it is possible to label nearly every surface structure or form. Here, preprinted labels are used. With this labelling technique we reach a position precision of under 1 mm [0.04 in] combined with maximum speed.



Application Systems

With our application systems a variety of products can be labeled semi-automatically and all-automatically in the start-stop operation or continuous process with a position precision of under 1 mm [0.04 in]. With special applications we can achieve a precision of less than 0,1 mm [0.004 in]. Typical cases of application are shown in the following pictures.



Print & Apply Systems

Print & application/dispensing systems are intended for the usage of premium labeling solutions. Here the labels are automatically imprinted with variable data and subsequently applied on the product. Labeling takes place semi- and all-automatically in the start-stop operation or continuous process. Thereby we reach a position precision of under 1 mm [0.04 in].



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