



**ST-Mark**



# Thermal lamination system



# ST-Mark Thermal Lamination System



## Overview of advantages

- Can be operated in automatic mode
- Quick: approx. 7,500 individual labels per hour
- Long operating time: Up to 75,000 labels can be printed with just one unit of consumables
- Increased abrasion resistance through protective laminate layer
- Design for quick inscription of label mats
- User-friendly ACS software

## High output capacity, good abrasion resistance

Thermal lamination is generally used for labelling tasks where very high production output must be matched with good abrasion resistance for the inscription.

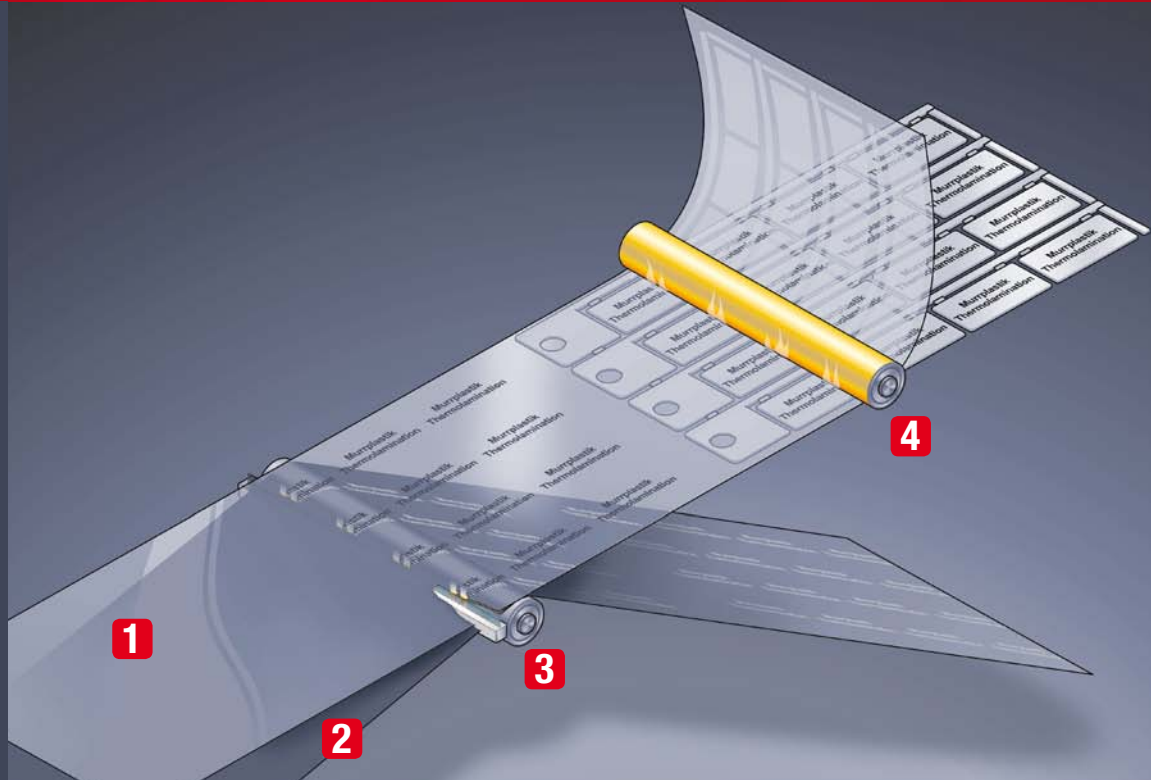
The ST Thermal Lamination System from Murrplastik sets the standard here. With a labelling output of roughly 7,500 individual labels per hour and operation in automatic mode, it is ideally prepared to handle “big jobs” for industrial production. The inscription device consists of a print module, a lamination station, a bed for label intake and a control panel.

The print module includes a thermal head with 1,280 working points at a resolution of 305 dpi. The integrated history control allows for individual dots to be individually heated as needed for the printed design, allowing for brilliant print quality. Printing speed and heating times can be adjusted to optimise the printed design. The thermal head prints from the transfer foil onto the laminate foil.



## Schematics Thermal lamination process

- 1** Laminate foil
- 2** Thermal transfer foil
- 3** Thermal transfer head
- 4** Lamination process



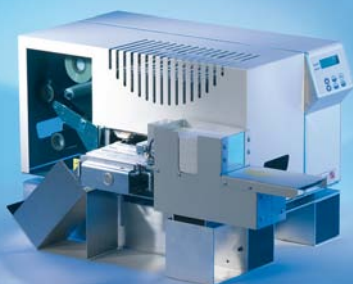
## The lamination process

The transfer and lamination foils are advanced line by line during the printing process. An encoder ensures a constant print repeat range regardless of any transport-related alignment changes. After the printing process, the lamination foil is then advanced until the print format is above the labels.

A regulator is used to maintain a constant pre-set temperature for the ensuing heated roller. Temperature and lamination speed can be adjusted to optimise lamination quality.

Presuming labels have been inserted and a job has been entered, and once the bed is ready, a press on the START button (on the front of the bed) retracts the bed and begins the print and lamination process. Once the process is completed, the bed is then extended out again. If no labels have been inserted, the bed can always be retraced into its interior parked position.

During automatic operation, a feeder with supply stack can be optionally connected.



## Technical data

### ST Mark device specifications

Print technology:	Thermal lamination: 1st Process step thermal transfer stage 2nd Process step lamination stage
Print area:	Standard image length = 133 mm (in feed direction) Standard image width = 83 mm
Temperature range:	between 70 °C and 200 °C in the lamination stage
Addressable resolution:	in feed direction = 302 dpi, 11.9 dot lines/mm Within the frame width = 305 dpi, 12 dot lines/mm
Thermal head:	with integrated history control to increase print quality
Ports:	USB port
Power supply:	Integrated power unit with inlet connector for non-heating apparatus
Power unit	
Natural voltage:	220 / 240 V – 100 / 120 VAC
Dimensions:	530 mm x 290 mm x 270 mm
Weight:	Approx. 22 kg
Capacity:	approx. 7500 individual label plates per hour

### Works with base plates:

GP ST4 A:	base plate for label mat 4-tree automated operation	Item no.: 86661022
GP ST1 A:	base plate for label mat 1-tree automated operation	Item no.: 86661024
GP ST2 A:	base plate for label mat 2-tree automated operation	Item no.: 86661026
GP STS H:	Base plate for label mats BS and KSN as well as GP1 Manual operation and with adaptor plate for label mats 5-tree automated operation	Item no.: 86661032

### Consumables

Ribbon set:	Consumables kits/laminate foil and transfer foil	Item no.: 86661036
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