

LC/LCL

LAUFFER Card Lamination Systems

The smart choice for your card production



Forming your ideas

LAUFFER
PRESSEN

» YOUR REQUIREMENTS FOR CARD LAMINATION



Final product quality

- » **BLISTER-FREE LAMINATES**
Pressure control
- » **PERFECT FLATNESS**
Parallelism of heating platens and cassettes
- » **NO DELAMINATION**
Process control
- » **COLOR FASTNESS**
Temperature control
- » **CONTROLLABLE DISTORTION**
Minimized thermal shock

Process and operation

- » **SMART CONTROL**
Intuitive operation and standard recipes
- » **PROCESS FLEXIBILITY**
Capable of numerous materials

System requirements

- » **HIGH UP-TIME**
Verified and robust design
- » **HIGH OUTPUT**
Minimized cycle times
- » **MAXIMAL YIELD**
Process control and repeatability
- » **LOW LIFECYCLE COSTS**
Energy efficiency
- » **SMALL FOOTPRINT**
New optimized design

100%
Process Control
=
100%
Repeatability
=
100%
Quality

Facts

High speed

Optimized program flow and system control provide for short cycle times.

High flexibility

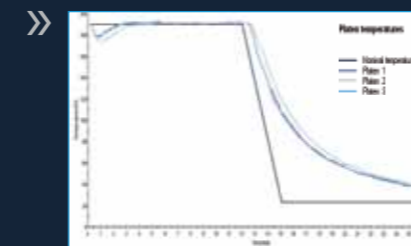
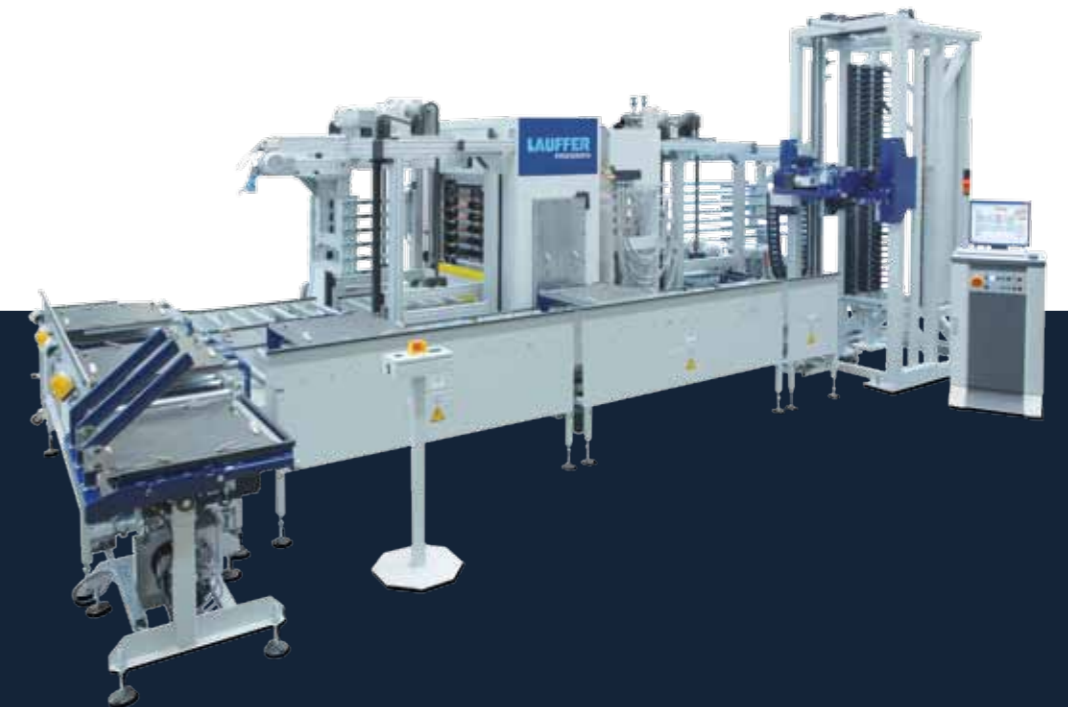
Modular units easily up-gradable from single to twin stack and from manual to fully or semi-automatic transfer.

High quality

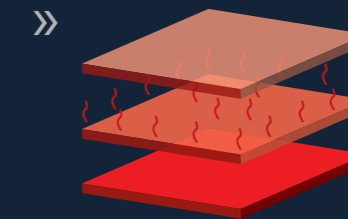
Vacuum system and press force reduction guarantee highest yield for the production of contactless cards, inlays and e-passports.

Strengths and advantages

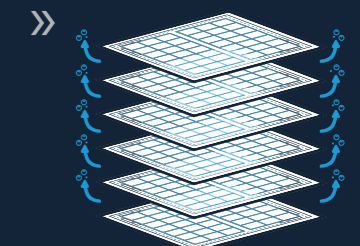
- » Suitable for all kinds of materials: e.g. PETG, Polycarbonate and combinations
- » Minimum footprint
- » Optional mixed-process for twin-stack systems (PC material lamination)
- » Remote access support via modem or internet
- » Smart user friendly PC-control
- » Comprehensive statistics to optimize your process



Smart control



Precise temperature distribution due to thermo oil heating

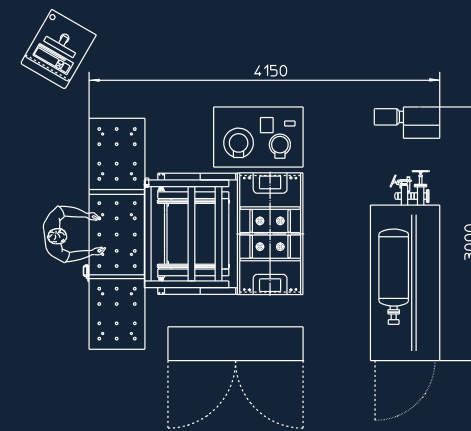


Vacuum for higher productivity and yield as well as reduced energy consumption

Lauffer LC Single-Stack System

Available as manual, semi-automated and fully-automated system

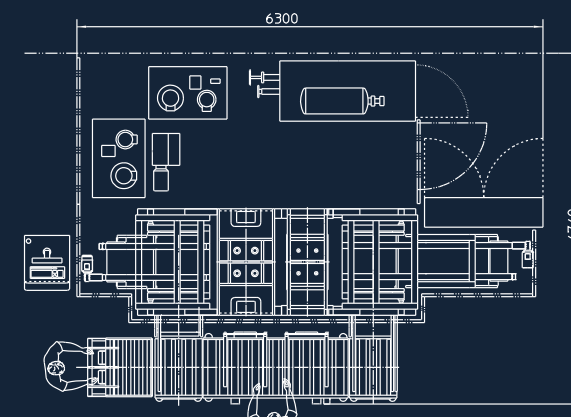
- » One hydraulic lamination press used for heating and cooling process
- » Depending on your production capacity requirements and the available investment capital you can choose between three alternative equipment designs, from manual to fully automatic.



Lauffer LCL Twin-Stack System

Available as semi-automated and fully-automated system

- » Hydraulic lamination and cooling press with fully automatic tooling transfer
- » Easy tool loading- and unloading
- » Minimized energy costs (heating / cooling)
- » Increased productivity due to minimized cycle times
- » Capable of mixed-processes
- » Optional storage functions

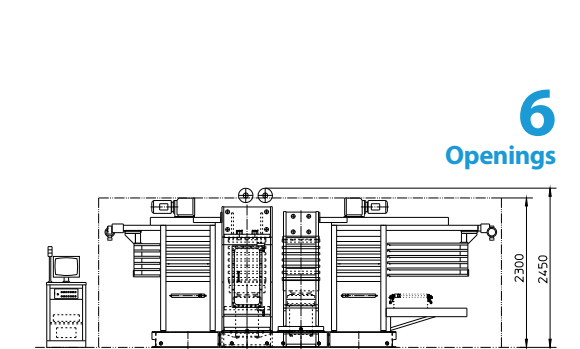


Optional System Features

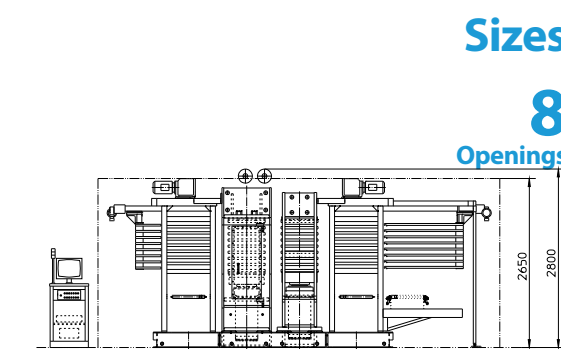
- 1 Fully automated storage tower for cassette management. Retrofit possible at any time.
- 2 Vacuum function to eliminate entrapped air and moisture. The vacuum function prevents against convection heat and saves energy.
- 3 Weight compensation guarantees same imposed load in every daylight.
- 4 Hardened steel cassettes with any possible bracket configuration.

Model	Single LC	80	125	200	250
	Twin LCL	40 (80)* / 80	63 (125)* / 125	100 (200)* / 200	125 (200)* / 250
Sheet format		up to 10 x 4	10 x 4 8 x 6 2 x (8 x 3)	10 x 6 2 x (10 x 3)	10 x 8 2 x (10 x 4) 4 x (8 x 3)
Cards per sheet		ID 1 24	ID 1 40/48 ID 3 16	ID 1 60 ID 3 16	ID 1 80/96 ID 3 16
Platen size	mm x mm inch x inch	630 x 450 24.8 x 17.7	750 x 580 29.5 x 22.8	660 x 780 24.8 x 30.7	750 x 1270 29.5 x 47.2 50"
Openings		1-6	1-8	2-16	2-16
Pressure heating press	kN US tons	400 / 800 44 / 88	630 / 1250 69 / 138	1000 / 2000 110 / 220	1250 / 2500 138 / 276
Pressure cooling press	kN US tons	800 44 / 88	1250 138	2000 220	2500 276
Possible sheet formats					

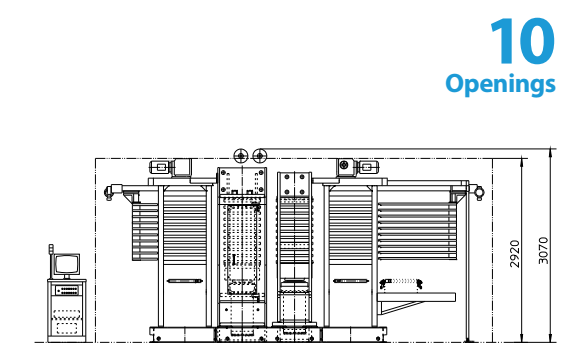
* Twin-stack system with additional single-stack function



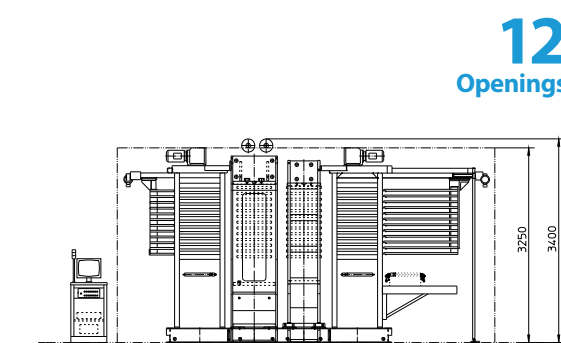
6
Openings



8
Openings



10
Openings



12
Openings

Sizes

LAUFFER PRESSEN – Forming your ideas

As a family-owned company, LAUFFER PRESSEN belongs to the leading manufacturers of modern press technologies. Founded in 1872, our company is building hydraulic presses and automated systems for different industries and applications since over 80 years. World-wide, thousands of LAUFFER systems are in use with our customers, 24/7, 365 days a year.

Today, LAUFFER produces presses and automated systems with a team of more than 200 skilled employees at our modern, 10.000 square meter facility in Horb am Neckar, Germany. Our main product lines are:

- » **Laminating Technology**
- » **Plastic Processing & Encapsulation Technology**
- » **Metalfforming Technology**
- » **Powder Technology**



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