

5 10 20 25 30 35 40 45 50 55 60 65 70 75 80

Fully Automatic Innerlayer System



ILS - Product Line



As a result of ongoing development, improved details and prototype testing we are present a new generation of equipment that meets today's as well as future requirements and has the highest proven availability for three shift operations.

Including HEPA filter, 2 camera system (optional 4 camera system).

Depending on the application we offer two different light technologies, POK and HI, for exposure.

ILS 700 Fully Automatic Innerlayer System

double sided exposing process for the production of innerlayer



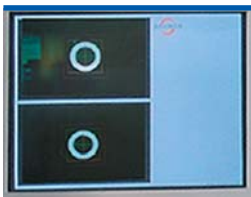
- 100% optical alignment
- Pinless registration



- Best possible illumination through centered exposure for every panel size
- Choose between two light technologies
Hi = scattered light, POK = collimated light



- Innerlayer application for dry film and liquid resists
- Stainless steel version and HEPA-filter for clean-room compatibility
- Roll out exposure frames ensure simple handling and perfect cleaning



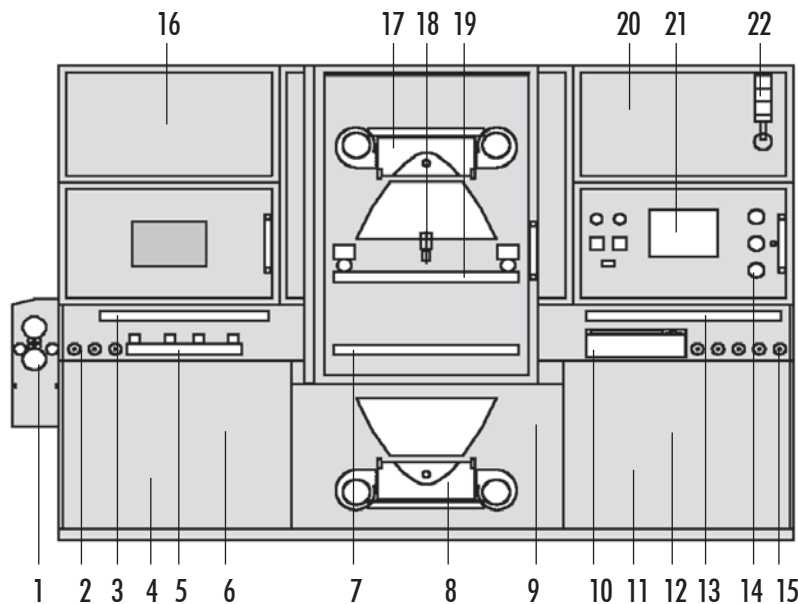
- Set-up times < 3 min; repeatability $\pm 5 \mu\text{m}$; alignment accuracy $\pm 5 \mu\text{m}$
- High throughput up to 240 panels / hour
- Maximum plate format = 24" x 28"



CL 700 Cleaner

Integrated as a space saving station in the feed-in section of the unit, the CL 700 works fully automatic with the ILS 700. The arrangement of the cleaning components guarantees an optimum cleaning effect. The following ionizing bar guarantees the clean effect during the whole process.





- 1 Cleaner module
- 2 Input table
- 3 Input transport shuttle
- 4 Electrical cabinet PC
- 5 Board pre-alignment table
- 6 Pre-alignment unit
- 7 Vacuum frame bottom artwork
- 8 Exposure unit, bottom (HI/POK)
- 9 Exposure and alignment module
- 10 Operating panel
- 11 Electrical enclosure
- 12 Output module
- 13 Output transport shuttle
- 14 Control displays
- 15 Output
- 16 HEPA-Filter box
- 17 Exposure unit, top (HI/POK)
- 18 CCD-camera for artwork alignment
- 19 X Y ϕ -vacuum frame top artwork
- 20 HEPA-Recirculating filter unit
- 21 Dialog monitor
- 22 Signal light

Technical Data

ILS 700 HI*

ILS 700 POK*

Max. board format	711 x 610 mm (28" x 24")	711 x 610 mm (28" x 24")
Min. board format	370 x 300 mm (14,5" x 12")	370 x 300 mm (14,5" x 12")
Max. board thickness	3 mm (0,118")	3 mm (0,118")
Min. board thickness, core	50 μ m (0,002")	50 μ m (0,002")
Standard film format	762 x 660 mm (30" x 26")	762 x 660 mm (30" x 26")
Standard exposure format	711 x 610 mm (28" x 24")	711 x 610 mm (28" x 24")
Special formats	on request	on request
Repeatability	+/- 5 μ m	+/- 5 μ m
Alignment accuracy	+/- 5 μ m	+/- 5 μ m
2 - point alignment	Standard	Standard
4 - point alignment	Option	Option
Cycle time	12 sec. + exposing time ***	12 sec. + exposing time ***
Intensity Lampe	60 - 80 mW/cm ² **	25 - 30 mW/cm ² **
Metal halide power consumption	2 x 8 kW	2 x 5 kW
Uniformity	+/- 10 % (24 x 18") / +/- 15 % (28 x 22")	+/- 10 % (24 x 18") / +/- 15 % (28 x 22")
Resolution	< 50 μ m	50 μ m
Electrical connections	HI* 400 V, 50 Hz, 24 kW, 125 A HI* 230 V, 60 Hz, 24 kW, 160 A	POK* 400 V, 50 Hz, 18 kW, 63 A POK* 230 V, 60 Hz, 18 kW, 80 A
Cooling	approx. 5,7m ³ /h, at 6 - 8°C	approx. 2,5m ³ /h, at 8 - 10°C
Compressed air supply	6 bar, approx. 6m ³ /h	6 bar, approx. 6m ³ /h
External dimensions, W x D x H	3190 x 2285 x 2250 mm (126" x 90" x 86")	3190 x 2285 x 2250 mm (126" x 90" x 86")
Weight	approx. 3000 kg / 6600 lbs	approx. 3000 kg / 6600 lbs
Throughtput directions	left to right or right to left	left to right or right to left

* HI = High intensity, *POK = POK = Practical orientated collimation (UV-cold light) /

Subject to technical modification without notice.

Measuring device IL-390 / * depending on the material



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