

FWL 100

Fully-Automatic In-Line Frame and Wafer Laminating System



Front-End Technology

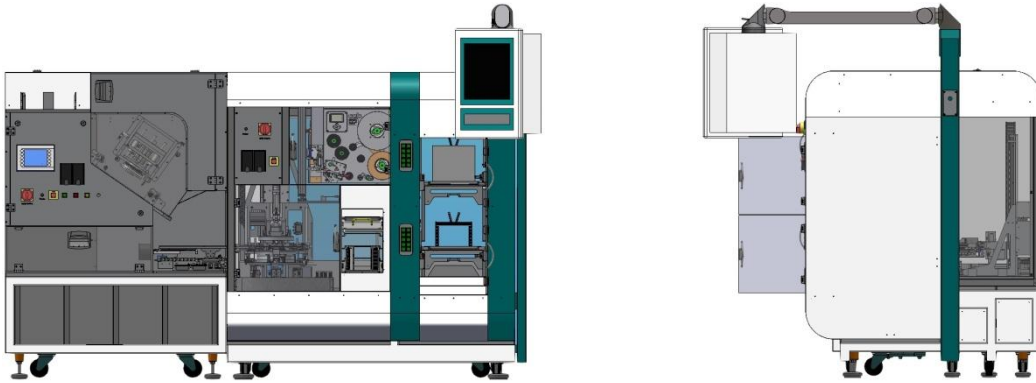
With the FWL 100, customer requirements for flexibility, speed and accuracy in opto-electronics manufacturing, high frequency module production and semiconductor manufacturing are met better than ever.

The FWL 100 is a flexible, fully-automatic in-line frame and wafer laminating system for wafers up to 6" in diameter. It is the ideal solution when it comes to laminate films and very thin wafers made from brittle materials tension free at high speed and with unprecedented precision. The modular design, state-of-the-art vacuum lamination technology, user friendly machine/operator interface and material tracing system make the FWL 100 the lamination system of your choice.



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Technical Data

Wafer frames	all industry standard types up to an overall dimension of 276mm square
Wafer frame input system	stack
Applicable films	SWT10+, SWT20+, G965 (blue), G965 (transparent), UE-115AJ, UV D-650 from roll
Film tension control	servo motor
Wafer sizes	2 inches up to 6 inches in diameter, thickness $\geq 100\mu\text{m}$ ($50\mu\text{m}$ - $100\mu\text{m}$ thickness optional)
Wafer materials	Al_2O_3 , GaAs, GaN, SiC, Ge, Si
Wafer input	standard wafer carriers, 25 slots, slot pitch $\geq 4.76\text{mm}$
Wafer identification	laser mark scanner
Frame identification	2D barcode label (smart label optional)
Wafer orientation	automatically
Positioning accuracy	X/Y direction: better than $\pm 1\text{mm}$ rotation: better than $\pm 1^\circ$
Lamination method	vacuum
Output system	industry standard wafer cassettes, automatic change over
Capacity	up to 50 wafers/hour
Bubbles	$< 1\%$ between wafer and film
Option	online 2D barcode label printer
Dimensions, weight (approx.)	1,280mm x 2,712mm x 1,065mm (width x length x height) excluding jib-arm and operation panel, 2,000kg

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