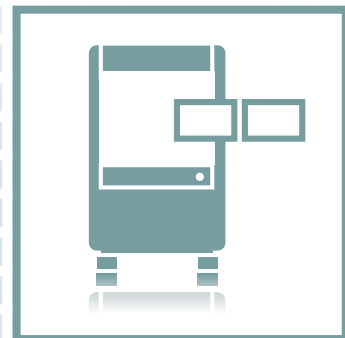


MACHINES
StackLine



StackLine - Laser Diode Bar Stacker

ficonTEC offers a unique machine for the automated stacking and unstacking of laser diode bars with its SL2000. The system picks bars from BlueTape, GelPaks or customized trays and places them into the stacking fixture with an accuracy of $\pm 1 \mu\text{m}$ from bar to bar. The system can handle any combination of laser bars and spacers (dummies) and can generate flush or staggered stacks. The stacking fixture is closed and locked after the stack is completed, securing the stack for handling and coating. The stacking fixture is loaded to the system for unstacking after the coating process.

The stacker optionally can be equipped with a fully automated visual device inspection and becomes an SL2000i. Inspection of both facets, P-side, and N-side is available. The bars are sorted into the designated GelPaks or WafflePaks based on the inspection results. The system then can create and print labels for those paks.

Key Features

- + Fully automated high speed operation
- + Pick up from BlueTape, GelPak or customized trays
- + Field proven customized stacking frame design
- + Alignment accuracy typical $\pm 1 \mu\text{m}$ facet to facet
- + Optional automated optical facet, P- and N-side inspection
- + Open software architecture
- + Advanced software tools with offline programming functionality
- + SQL-Database connectivity



Housing & Control

- + Steel base
- + Cover with pneumatic door
- + Control System with PC
- + 2x 17" TFT-Displays, Keyboard & Trackball
- + Motion Control System for Linear and rotary motion system

As a unique feature all ficonTEC machines offer a sophisticated component tracking throughout the entire machine process. All machines run the same machine software for easy operation and portability.



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