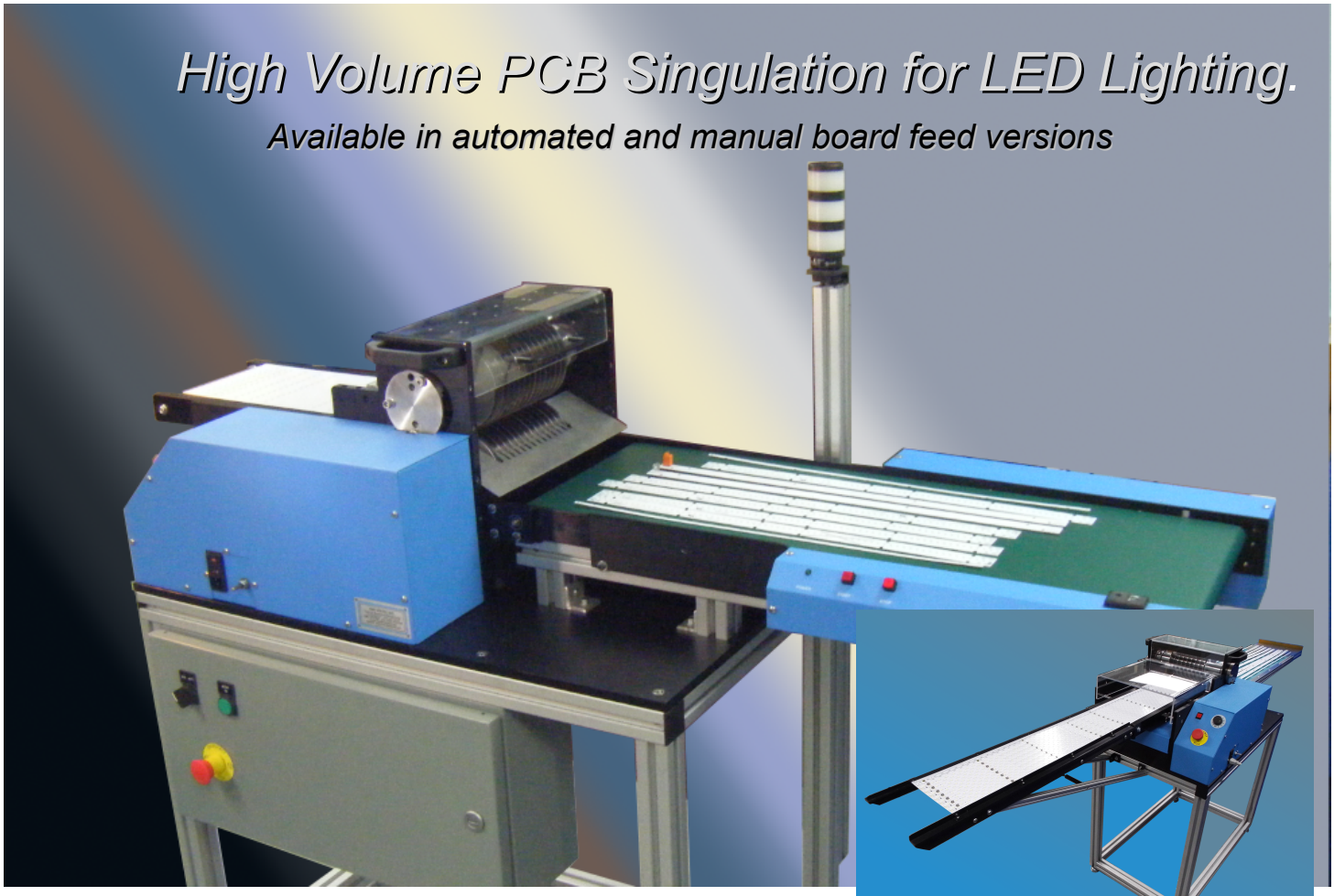
K5000 Multiple Blade Depanelizer

FKN Systek
Tools for Electronics Assembly

High Volume PCB Singulation for LED Lighting.

Available in automated and manual board feed versions



K5000 S1

The K5000 PCB separator is designed for high volume singulation of pre-scored multiple PCB sheets into individual units. For sheets with a width of up to 11.3" (287 mm), up to 11 sets of circular blades simultaneously separate the PCBs into individual panels. To singulate the panels, the sheet is laid onto the input conveyor and travels between the upper and lower row of blades.

As soon as the rotating blades grip the board, it is drawn into the machine and the panels are separated by pressure on the remaining material in the scoreline. A conveyor belt transports the separated panels out of the machine. These can then be removed by hand or continue on down the assembly line via conveyor.

During manual unloading, a light sensor at the end of the conveyor can detect if any panels have not been removed and stopthe conveyor. The edge margin pieces pass underneath the sensorand drop into a container situated at the end of the conveyor belt.

The clearance between the upper and lower blades can be precisely adjusted by moving the upper drive shaft. The upper and lower blade sets are mounted on shafts which are held in a removable cartridge. To change blades for a different production run takes about 15 minutes. Remove and replace the blade holder cartridge with the new one. Reset the input conveyor for the new panel size and the machine is ready to singulate the next run.

Multiple blade cartridges can be changed out in minutes for quick changeover to different PCB types. Standard cartridges will handle up to 11 blade sets for strip widths of .5” (12.7 mm).

The K5000 A1 in-line depanelizer is a PLC controlled system with SMEMA interface for automatic board hand-off from your re-flow oven. This will singulate panels as fast as they exit the assembly process.

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