

P-SERIES

GKG

Perfect Solution for
LED TUBE PCB PASTE PRINTING



P-LED

**FULLY AUTOMATIC
LARGE BOARD
STENCIL PRINTER**

www.gkgasia.com

PERFORMANCE

Machine Allignment Capability	2 Cmk @ ±15 µm @ 4 sigma
Process Allignment Capability	2 Cpk @ ±30 µm @ 4 sigma
Core Cycle Time (excluding printing & cleaning time)	< 15 secs
Product Changeover Time	< 5 mins
New Product Set-up Time	< 10 mins

BOARD HANDLING

Max. Size (L x W)	1,500mm x 350mm
Min. Size (L x W)	80mm x 50mm
Thickness	0.8 ~ 6mm
PCB Thickness Adjustment	Automatic
PCB Max Weight	10kg
PCB Edge Clearance	3mm
PCB Bottom Clearance	15mm (7mm with optional auto PCB thickness adjustment)
PCB Warpage	Max. 1% diagonally
Clamping Method	Top clamp (Manual), motor controlled side clamp
Support Method	Magnetic support pins, bars, blocks, vacuum suction
Conveyor Direction	L to R, R to L, R to R, L to L (software control)
Conveyor Height	900 ± 40mm
Conveyor Speed (max.)	1,500 mm/s
Conveyor Width Adjustment	Automatic

PRINTING PARAMETERS

Stencil Frame Size (L x W)	Adjustable, 720mm x 300mm to 1,800mm x 750mm
Print Gap (snap-off)	0 ~ 20mm
Printing Table Adjustment Range	X: ±10mm, Y: ±10mm θ±2°
Print Speed	10 ~ 200mm/s
Squeegee Pressure	0.5 ~ 15kg (program control)
Squeegee Type	Std: Metal Squeegee 280mm, 370mm Opt: Rubber
Squeegee Angle	Std: 60°, Option: 45°, 50°, 55°
Cleaning System	Auto wet, dry, vacuum (software select)

OPTICAL SYSTEM

Field-of-View (FOV)	10mm x 8mm
Fiducial Types	Circle, Triangle, Square, Diamond, Cross
Fiducial Size	0.5 ~ 4mm
Vision Methodology	Digital CCD camera look up & down
2D Inspection	Max. 500 windows to inspect missing & insufficient (std.)

FACILITIES REQUIREMENT

Power Supply	AC220V ± 10%, 50 / 60Hz
Power Consumption	2.5kW
Air Supply	4 ~ 6Kgf / cm ²
Air Consumption	5L / min
Dimension (excluding signal tower)	2,570mm (L) x 1,210mm (W) x 1,509mm (H)
Machine Weight	1,800kg

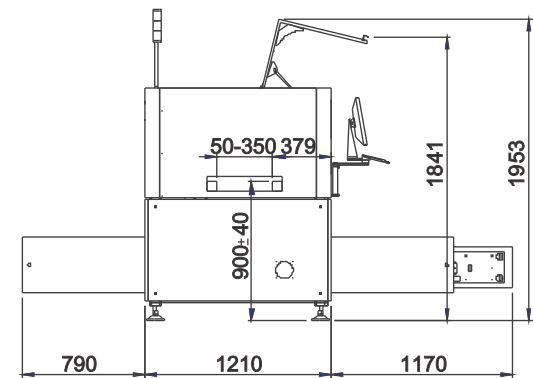
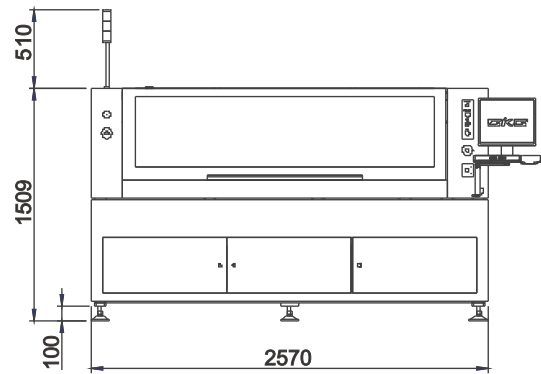
OPERATOR INTERFACE

Hardware	LCD Monitor, Mouse & Keyboard
Operating System (OS)	Windows 10
Control Method	Industrial PC controlled
I/O Interface	SMEMA Standard

OPTIONS

Auto Paste Replenishment
Handheld barcode scanner for stencil, solder paste, squeegee traceability
Internal / External barcode scanner for PCB traceability
MES System Integration (for Ind. 4.0)
SPI closed-loop
Temperature, Humidity Monitoring & Display
Uninterrupted Power Supply (UPS)

EXTERNAL DIMENSION(mm)



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WEBSITE



LINKTREE



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*GKG reserves the right to make any changes concerning design or specification of the machine without any prior notice for continuous improvement. (P-LED Version 1.0 2025.07)