

LGP809™

Digital Legend Printing System

LGP809 Specifications

Normal Resolution (375 x 375 dpi), net Printing time per side (sec.)*	19
High Resolution (750 x 750 dpi), net Printing time per side (sec.)*	35
Required Input	Gerber 274 x (silk-screen CS & silk-screen PS)
Panel Dimensions	Up to 24" x 30"

Ink

White heat-curable

Chemical resistance (marking paints and inks) as per IPC-TM-650, No. 2.3.4, Revision B, 8/1997

Adhesion (marking paints and inks) as per IPC-TM-650, No. 2.4.1.1, Revision B, 11/1988

Acceptability (of printed boards): ANSI/IPC-A-600, No. 2.8.1,

Acceptability (of electronic assemblies): IPC-A-610, Revision C, 1/2000, No. 8, No. 8.2

Options

Variable information: PCB serial numbers, date, printing time

Optical registration (plus panel distortion compensation)

Integrated clean environment set

Printar Switchable Selective Vacuum Table (SELVAC)

2D Barcode

* Specifications are subject to change without prior notice.



About Printar

Printar Ltd. is a leading developer and manufacturer of digital printing equipment and consumable chemicals for the PCB industry. Distinguished by its total focus on digital printing technologies for PCB manufacturing, Printar employs the industry's largest R&D team dedicated to development in this field. Its management and staff are composed of professionals from the world's top digital printing and capital equipment companies. Founded in 1999, Printar's headquarters and R&D center are located in Israel, with subsidiaries and distribution partners in all major worldwide markets.

Printar
Digital Age PCB Printing

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Designed for maximum performance

Proprietary stationary print head design eliminates fatal flaws

Six print heads deliver market-leading throughput

Unique SELVAC™ technology ensures superb print quality

Specially designed heat-curable ink maximizes adhesion on fully cured solder mask

Printar
Digital Age PCB Printing

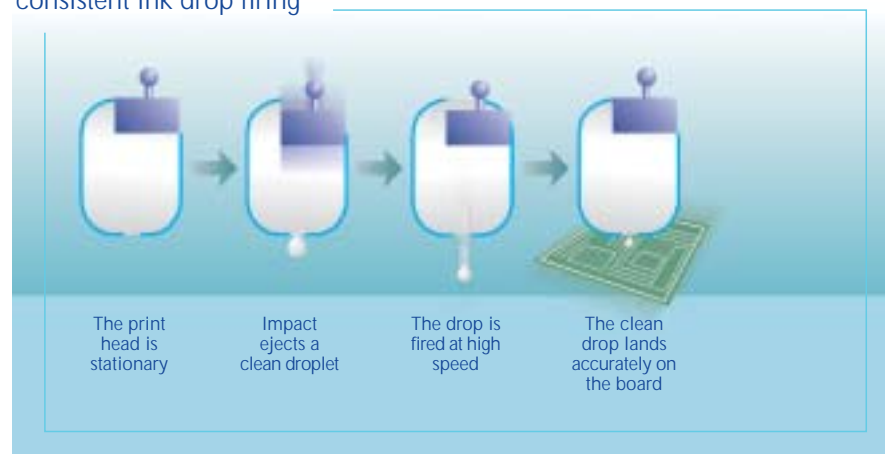
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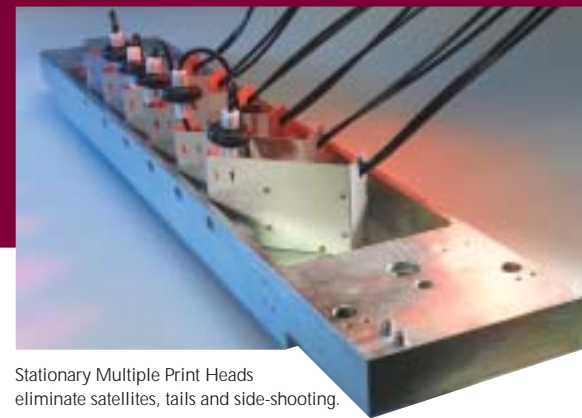
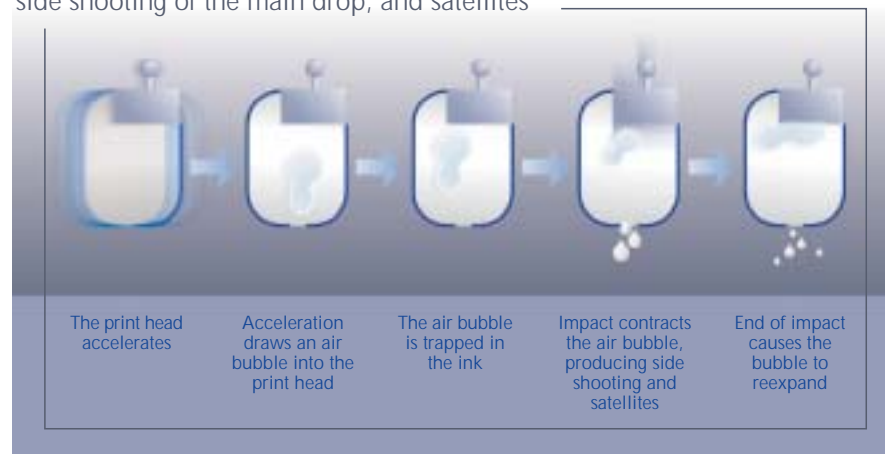
Purpose-designed, Market-proven

Printar's LGP809™ Digital Legend Printing System leads the PCB industry in print quality, productivity and ease of use. Designed from the ground up for PCB legend printing, LGP809 combines unique technologies with specially developed ink, to achieve the highest quality and performance. Its high level of automation reduces costs by eliminating the need for silk screens – thus shrinking production cycle times and easing demands on personnel. Since its launch in 2003, LGP809 has been proven in production at leading PCB manufacturers worldwide.

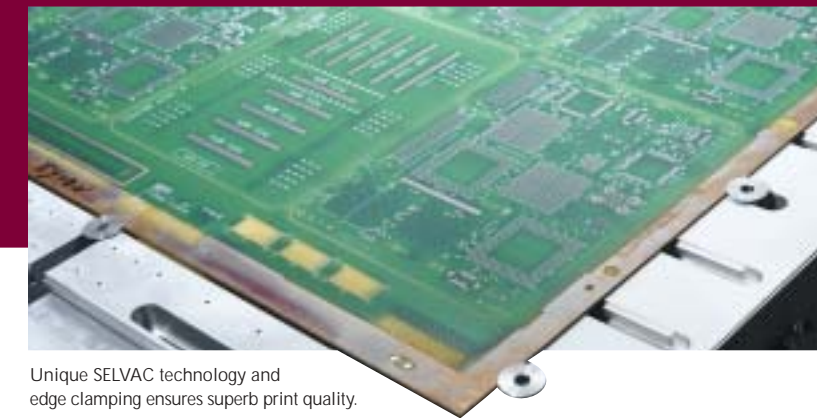
Printar's Stationary Print Head Technology ensures consistent ink drop firing



Moving print heads commonly produce fatal defects, such as side shooting of the main drop, and satellites



Stationary Multiple Print Heads eliminate satellites, tails and side-shooting.



Unique SELVAC technology and edge clamping ensures superb print quality.

Key Features and Benefits

With its unique combination of innovative technologies and dedicated inks, LGP809 delivers a complete digital legend printing package.

High Quality, Accuracy and Productivity

Stationary print heads - Printar's proprietary Stationary Print Head technology eliminates fatal flaws created by satellites, tails and side-shooting that result from print head movement (see illustration on the left).

Multiple print heads - Six print heads, working in concert, provide the industry's highest throughput, while maintaining superior print quality in both high (750 dpi) and normal (375 dpi) printing resolutions.

SELVAC™ (Selective Vacuum Technology) - Unique design assures accurate ink drop placement by switching off the vacuum at the print location, while remaining in effect on the other areas of the PCB. This approach, in conjunction with edge clamping, reliably flattens the PCB to maintain a constant distance from the print heads - a requirement for high quality legend printing.

Heat-curable ink - Specially designed heat-curable ink provides superior adhesion, superb print quality, utmost operator safety and flexibility for legend repair. The ink can be printed on either fully or semi-cured solder mask.

Automatic Alignment, Registration and Scaling - An on board vision system quickly and accurately determines board position and distortion, which enables the legend to be fit perfectly to each PCB.

Serialization and Personalization - Every panel and PCB can be individually serialized or personalized at the time legend is applied, eliminating the need for scribing or stamping. 2D bar coding is also available.

Ease-of-Use

Plug and Play in your factory - Straightforward implementation, using standard Gerber files, makes legend printing a single step operation, eliminating the need for silk screens and associated process steps.

High Reliability

Automatic ink-system maintenance - The LGP809 automatically monitors and manages its own ink delivery system, ensuring high reliability and uptime.

Built-in Clean Environment - The combination of positive air pressure and HEPA filtration keeps the print head free of foreign material, assuring the highest quality legend print.

Dedicated speed

Dedicated technology

Dedicated accuracy

Dedicated ink

The only digital legend printing solution that delivers perfect drop placement. Every time!