

## Elephantech Announces First Sale of ELP04 PILOT 600R, Accelerating Transformation of PCB Manufacturing

Elephantech Inc. (Shinya Shimizu, CEO, Headquarters: Chuo-ku, Tokyo), Japanese deep-tech startup Elephantech Inc. (Elephantech) today announced the sale of the first unit of ELP04 PILOT 600R, the latest model in its [ELP04 advanced inkjet equipment series](#).



Elephantech's latest ELP04 PILOT 600R inkjet equipment

As a key component of Elephantech's proprietary SustainaCircuits technology, ELP04 PILOT 600R directly deposits copper nano-ink onto the substrate, forming the conductive seed layers for wiring and printed-through-hole (PTH) in general-purpose multilayer PCBs. It is also applicable for the formation of blind-via and uniform thin-film deposition, enabling broader PCB designs.



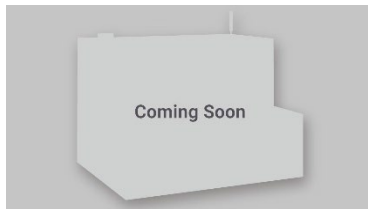
The sale was executed through a three-party Joint Development Agreement among Elephantech, Sumitronics Corporation\* and a leading Japanese PCB manufacturer. Under the joint development, the equipment will be installed at the manufacturer's production site to apply Elephantech SustainaCircuits process for PCB fabrication toward mass production.

Building on the successful development of general-purpose SustainaCircuits multilayer PCB last year, Elephantech has kept the momentum to advance low-carbon manufacturing solutions. The initial sale of ELP04 PILOT 600R marks the first installation of the company's multilayer PCB manufacturing equipment at a production facility, enabling real-world evaluation of the SustainaCircuits process for mass-production use. This milestone represents a significant step toward broader adoption of the technology across the PCB industry in both domestic and international markets.

## [About ELP04]

Equipped with EPSON's cutting-edge inkjet head, the ELP04 series delivers fine conductive traces required for increasingly miniaturized electronics components.

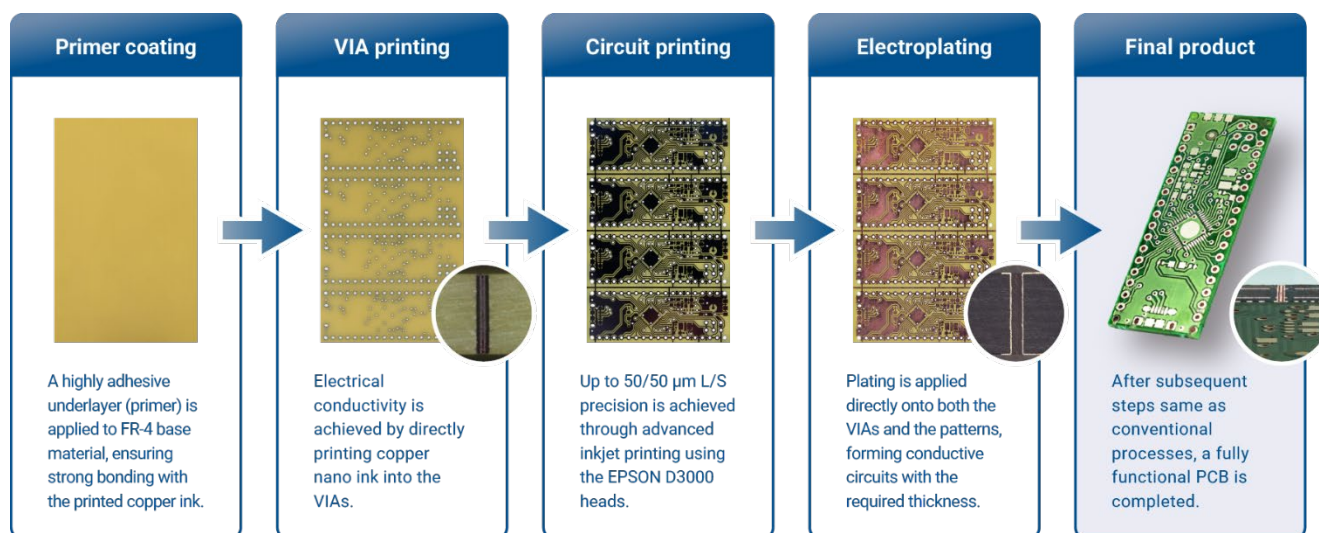
The series includes multiple models designed to meet diverse production needs:

Model	ELP04 PILOT 600R	ELP04 RS	ELP04 RF
Product image			
Status	On sale	Launch in 2026	In development
Application	Supports both mass production environments and R&D/prototyping applications.	High-productivity model engineered for large-scale manufacturing.	Highest throughput model designed to further expand production capability.
Feature	One print head for sequential printing.	Multiple print heads for simultaneous full-surface printing.	Dual-stage configuration allowing surface inspection & adjustment in parallel with printing, minimizing idle time.

## [About SustainaCircuits]

SustainaCircuits is Elephantech's proprietary pure additive PCB manufacturing process that disrupts the heavily polluting DES approach. Through adopting SustainaCircuits, PCB manufacturers can produce low-carbon multilayer PCBs with significantly less copper consumption, water usage, and CO<sub>2</sub> emissions.

SustainaCircuits integrates Elephantech's inkjet equipment, [copper nanoparticle ink](#) and optimized workflow. It replaces the core step in PCB fabrication while keeping subsequent steps unchanged, allowing minimal process disruption and seamless implementation.



Key steps along the pure additive SustainaCircuits process



\*Sumitronics Corporation is a group company of Sumitomo Corporation, which entered into a strategic business alliance with and invested in Elephantech Inc. in 2019. Sumitronics Corporation is an Electronics Manufacturing Service (EMS) provider that offers integrated services ranging from electronic component procurement to the manufacturing of finished products.

## Inquiries

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## Related Brochure Download

[Equipment\\_ELP04\\_PILOT](#)

## Company Overview

Name	Elephantech Inc.
Establishment	January 2014
Headquarters	4-3-8 Hatchobori, Chuo-ku, Tokyo 104-0032, Japan
Representative	Shinya Shimizu, Representative Director / CEO / Founder
Business Description	Development, manufacture and sales of proprietary machinery and materials, as well as PCB products
URL	<a href="https://elephantech.com/en/">https://elephantech.com/en/</a>

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