

# PPI

www.ppisystems.com

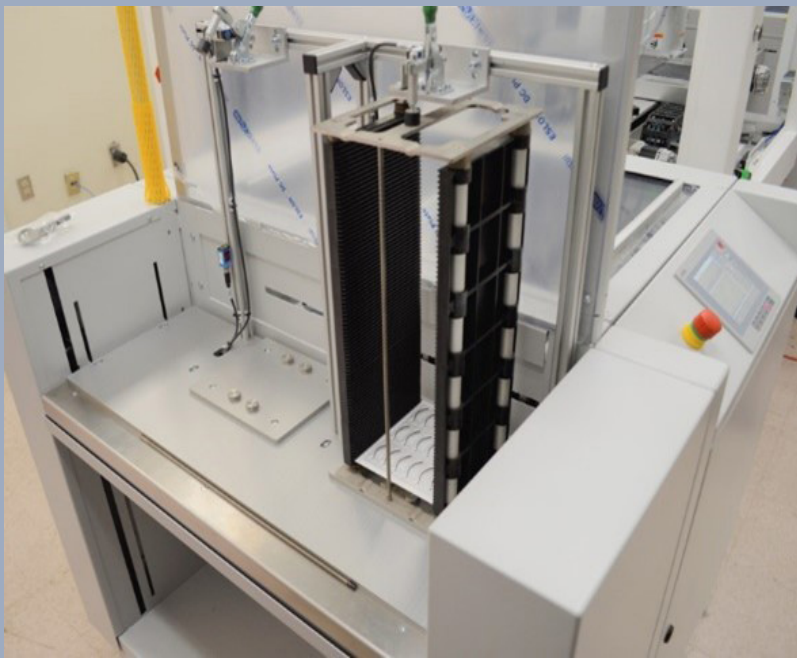
# Newsletter

Spring Issue - Apr. 2022

## How Automation in Laser Resistor Trimming is Meeting the Needs of Standard Production and Industry 4.0

As more and more electronics production facilities employ "lights-out manufacturing" concepts and move towards I4.0, becoming fully automated with little or no human presence, PPI's RapiTrim laser resistor trimming systems are at the forefront of automation choices.

[Read more...](#)



RapiTrim - The Future of Resistor Trimming™

## Flying Probes - Myths and Misconceptions

The concept of flying probe testers has been around for many years. Until recently however, there was no adequate implementation of flying probes for laser resistor trimming. PPI's RapiTrim fixtureless trim and test systems have changed the landscape and there are now many RapiTrim systems deployed in production environments.

[Read more...](#)

## The Benefits of Dual Laser Microvia Drilling

The drive for smaller but high-functionality handheld devices led to the implementation of laser-drilled microvias over 20 years ago. Laser drilling of vias is now an established process in the PCB industry for many different circuit applications. Two laser types and three main methods are in use: UV laser drilling only; CO2 laser drilling only; and a combination of both the UV and CO2, commonly referred to as the hybrid process.

[Read more...](#)

## Events



International Microwave Symposium  
Denver, CO

June 19-24 2022  
Booth 8096



NEPCON, Thailand  
Bitec, Bangkok

June 22-25, 2022

## Case Studies

- [Thin Film, Multilayer Circuits](#)
- [High Density Thick Film](#)
- [Benefit Analysis of Flying Probes](#)
- [Resistor Trimmer Design Process](#)
- [A Comparison of Resistor Trim Types](#)

## In the news...

- [PPI Systems Partners with High Technology Materials Group \(HTMG\)](#)
- [PPI Systems Finishes 2021 with Record Placements Globally](#)
- [GS Electronics and SAT Present at Productronica 2021](#)
- [TEC Associates Join PPI Systems as Manufacturers Representatives](#)
- [PPI Adds New Engineers into its R&D and Engineering Groups](#)

## Articles and Case Studies

[Purchasing Your First Resistor Trimmer](#)  
Blog Article

[Laser Resistor Trim Test Options](#)  
Blog Article

[PPI Systems LinkedIn Page](#)  
Social Media

[Laser Processing in the Aerospace Market](#)  
Webpage

[Frequently Asked Questions](#)  
Resources

[Trimming and Drilling Videos](#)  
YouTube