

IN-LINE STENCIL PRINTERS



INTRODUCTION



InterElectronic Hungary Ltd. offers equipments, machines and different materials (ESD) of different production technologies (SMT/THT/LED). Including high quality, special request fulfilling soldering machines, devices, tools, instruments and materials for the electronic industry and services.

SERVICES

Our each and every product has a warranty granted by the InterElectronic Hungary Ltd. For more complex appliances our company offers a well-needed training for set up and usage. We grant the repair of all of the products traded by our company during and after the warranty period. As well as we guarantee the continuous supply of accessories and instruments.

DEMONSTRATION

In case if any of our products aroused your interest the InterElectronic Hungary Ltd. would be glad to visit your company and hold a presentation of the product of your interest. As far as possible we serve you by bringing demo devices with us. In the most cases of our products we are proud possessors of references nation-wide. Major machines also could be observed at our partners' site.

PRICE LIST

Most of the prices of our products can be requested on our website and will be sent via email to you. In case of special and more complex machines the prices are given after consultation individually through a price offer. If you are interested in more information or user manuals of our products we recommend you to visit our website (www.interelectronic.com), which is updated continuously with professional information. We also recommend you to visit our office, where you can purchase any of the needed devices and spare parts of the product of your interest.

ORDER/SHIPPING

Our soon to be partners are welcomed to be helped via telephone, fax or e-mail. We use different ways of delivery, depending on the preference of our partner. We can deliver your purchased product by ourselves, by freight or courier service. The way of delivery might be negotiated previously. We offer you cash on delivery nation-wide!

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Speedprint Technology is an award-winning company delivering comprehensive smt screen printing solutions with a focus on value, flexibility and low cost-of-ownership for the SMT and Semiconductor industries.

The Speedprint products combine our commitment to high performance and reliability with all the necessary features for processing the most complicated assembly's. The systems are designed to cope with the rigors of high-volume SMT production while incorporating the flexibility needed in high-mix, quick product setup and changeover environments.

At Speedprint, we take a unique approach that is defined by our commitment to quality, design simplicity, long term reliability and low operation costs. Our commitment to quality is exemplified by the many important process control features that are standard elements of every Speedprint machine. The design simplicity means extremely low maintenance costs and being free of expensive OEM service contracts. And the solid state components used in our products means long term reliability and greater customer choice. These are just a few reasons why Speedprint is unique. Please contact us to learn more and appreciate why Speedprint is the right choice for your SMT stencil printing requirements.

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SP 710

// Speedprint platforms are the result of years of meticulous materials, manufacturing and process control excellence. Sitting at the top of our product range, the SP700 Series is engineered to deliver streamlined performance at low ownership costs for high, medium and low-volume production applications. //

AUTOMATION

Effortless automation is at the centre of the platform. SP700 Series printers are comprehensively equipped with almost every parameter fully programmable. That's how they address the demands of high volume surface mount production with ease. Yet with flexibility built in, set up and product changeover are fast and efficient too; they don't impact your throughput. So it's also the ideal platform for low and medium volume assembly in challenging high mix environments.

ACCURACY

Exceptional print accuracy and repeatability stem from the highest levels of alignment. A truly unique vision system deploys Speedprint's patented Dual Roving camera (DRc) technology to precisely align the board and stencil, and to check for solder paste presence on the stencil before printing. DRc innovations also include SmartCal, a zero-cost calibration utility designed to maximise and maintain your process window, and deliver optimum performance for the life of the platform.

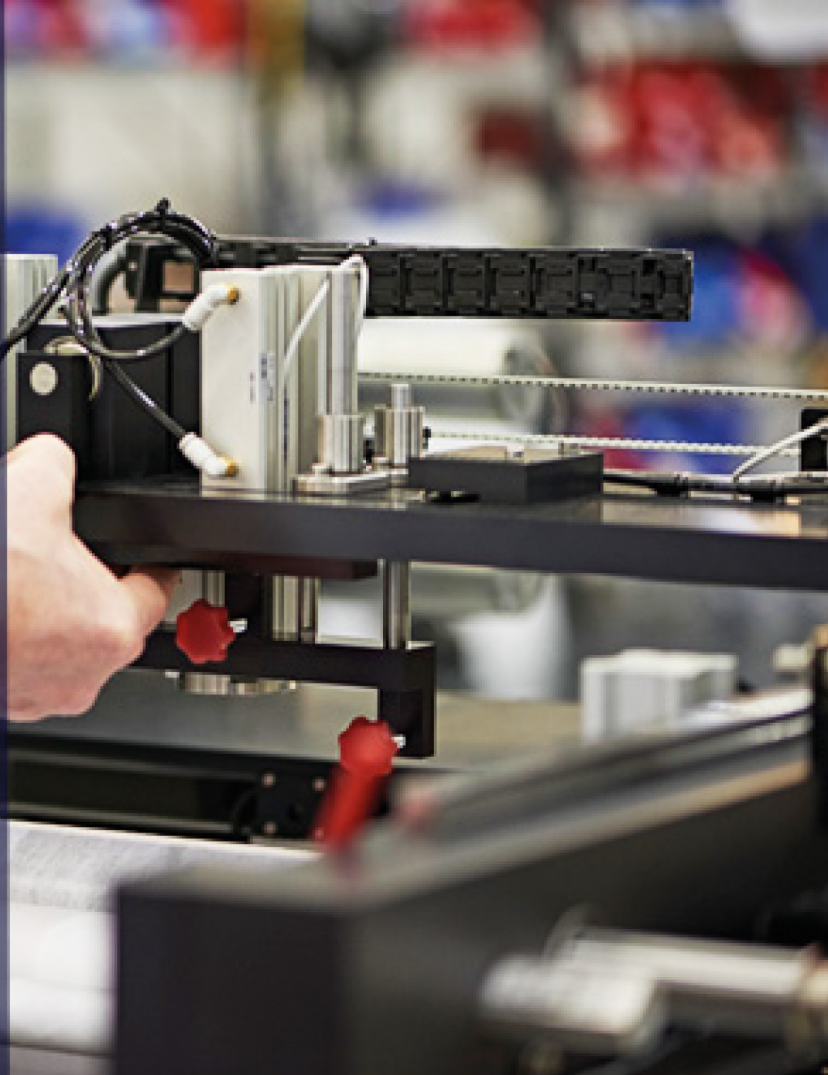
700 SERIES



SHORT CYCLE TIME FROM THE MOST ADVANCED DRIVE CONTROL TECHNOLOGY

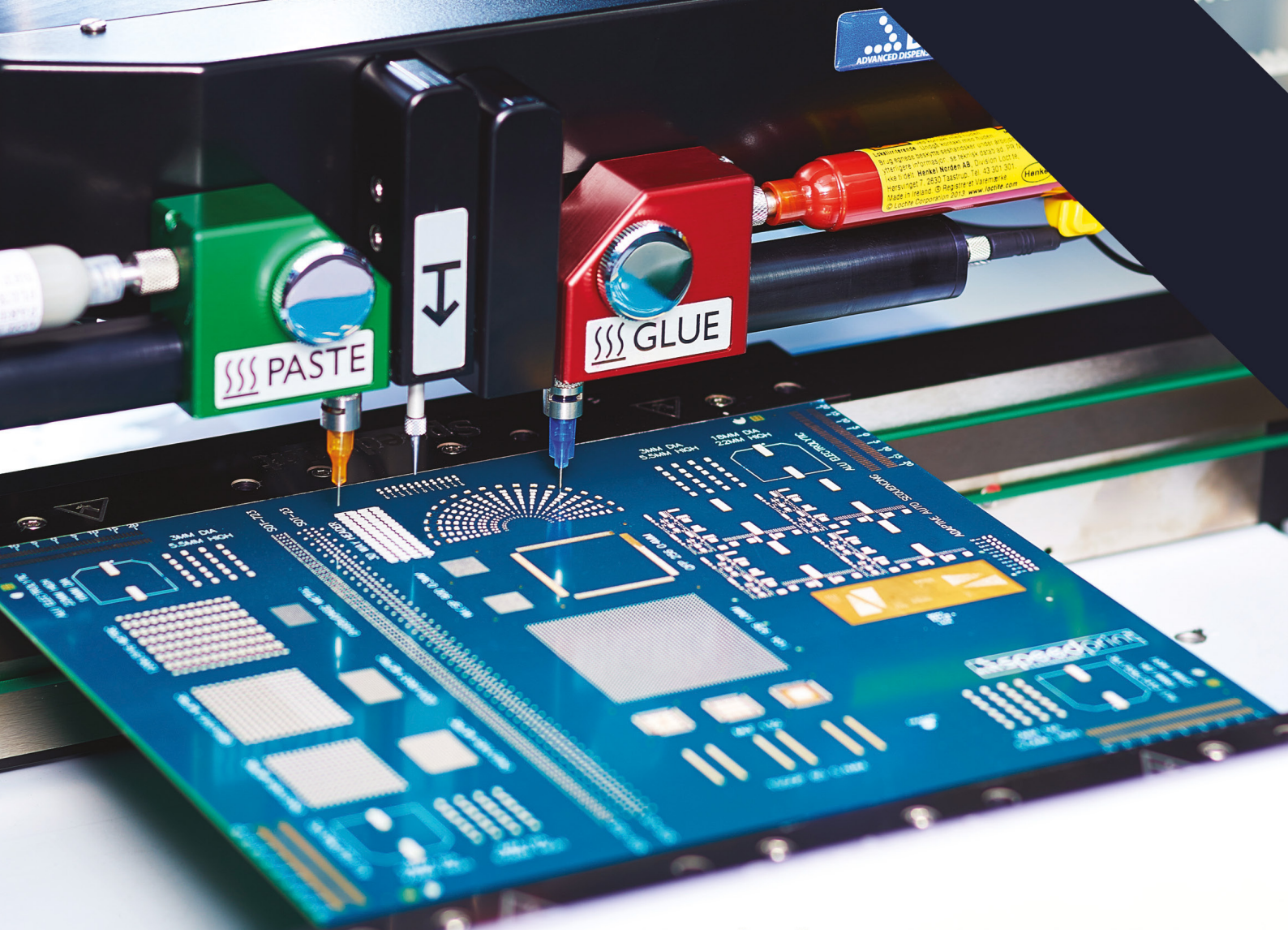
With its latest-generation motor drive and control technology, including 1 micron resolution linear encoders on all axes, SP700 Series platforms deliver exceptional throughput capabilities for even the most demanding high volume applications. With Speedprint's Velocity or Velocity+ options, the printers achieve best-in-class speeds of 8-second or 6-second core cycle times.

Speedprint's SP710avi printer can deploy the unique Advanced Dispense Unit (ADu) or optionally the ADu+ to dispense a wide range of media including paste, glue and flux via removable temperature controlled modules. Simple drag & drop programming imports from Gerber files, allowing easy customization to deposit lines onto any substrate.



COMPREHENSIVELY EQUIPPED WITH ADVANCED FEATURES AS STANDARD

- Every SP700 Series printer provides highly efficient vacuum-assisted under stencil cleaning, fully programmable to run wet or dry, with or without vacuum, to optimise the print process for each application.
- 2D+ Inspection examines the printed substrate for solder bridges, regardless of component orientation.
- A precision-machined print head features active closed-loop squeegee pressure with fully programmable print parameters.
- Programmable Optical Paste Bead Management uses the vision system to verify solder paste presence on the stencil, alerting the operator to insufficient volume.



DEPOSIT WITH PRECISION

PRINT AND DISPENSE IN A SINGLE PROCESS STEP

With the Advanced Dispense unit from Speedprint, you can selectively deposit more paste after printing. Or glue. Or flux. Or anything. All in one process step. And all inside your 700 Series printer.

The integrated dual head ADu+ delivers unbeatable positional accuracy. Deposit onto any substrate with confidence, even on **populated boards**. Better still, choose to deposit as **dots or lines** to perfectly match your component profiles.

Use precision dispensing to **add paste to revised board designs** without needing a new stencil. ADu+ technology does away with stepped stencils too. Simply **top up paste** post-print where pads need it. Then dispense **glue, flux or conductive epoxy** through removable temperature-controlled modules that use cost-effective industry-standard nozzles.

To program, simply import from Gerber and **drag & drop** around features. ADu+ does the rest, creating deposition paths in any position and at any angle. **Go from print to placement in a single step.**

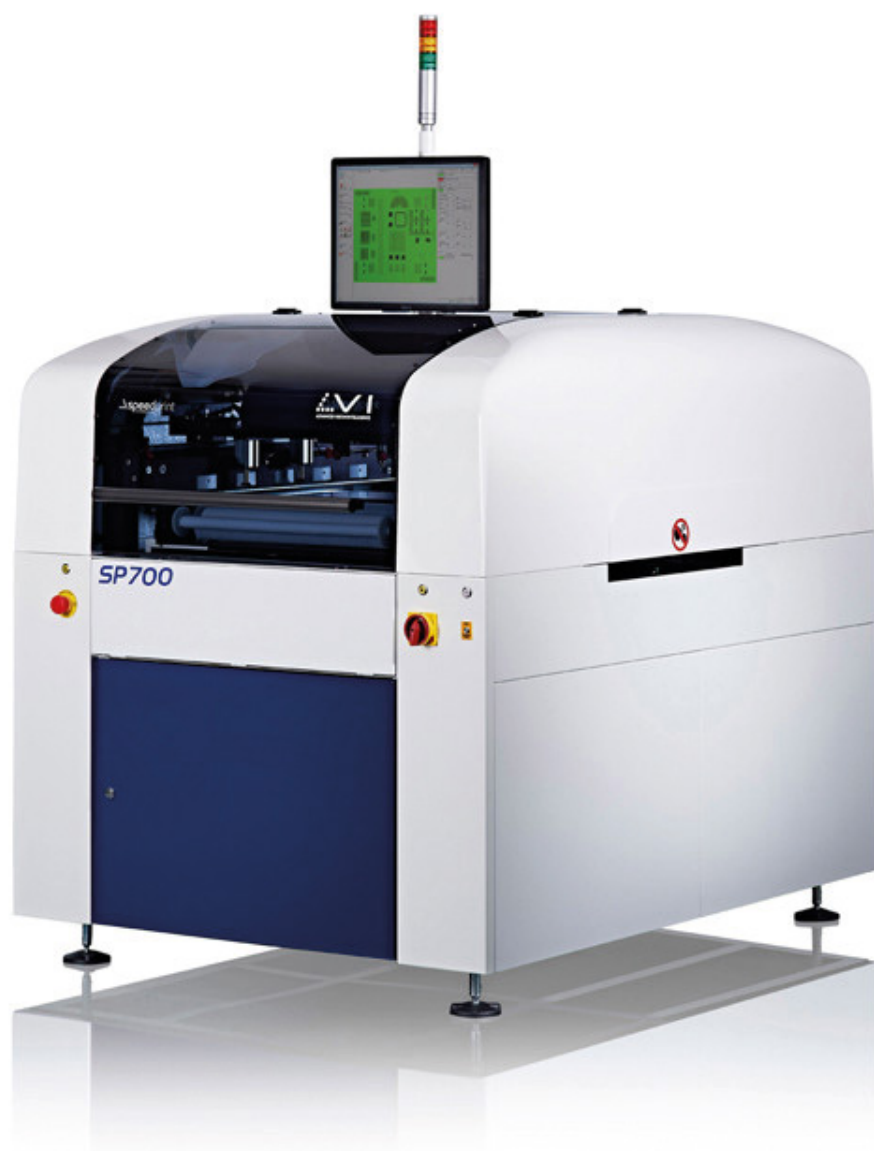
Find out more at Speedprint-tech.com/adu

SPECIFICATIONS

Max board size	610 mm (x) by 508 mm (y)
Min board size	45 mm x 45 mm
Alignment Repeatability	20 µm @ 6 Sigma 2 cpk
X/Y PCB Alignment	±5 mm
Stencil load/unload	Automatic
Squeegee material	Metal or Polyurethan
Squeegee pressure	1 kg to 20 kg
Print speed	5 mm/sec to 250 mm/sec
Board clamping	pneumatic foils
Board stop	fully programmable
Throughput time	11.5 secs (standard)
Up/down line protocol	SMEMA compatible
Operating system	Microsoft Windows™ 7 Pro
Power consumption	13 amps
Power supply	110V to 240V ac, single phase
Operating Temperature	10°C to 35°C @ 30% to 50% RH
Weight	650 kg

FOR FULL SPECS
SCAN HERE





SP 700



INLINE PRINTING

Ease of use

The SP700avi has been designed with ease of use, maintenance and low cost of ownership in mind. Unlike many alternative platforms, we have always included the items you must have to manage a critical process and produce high quality results; anything less is a compromise you shouldn't be forced to accept.

DRc vision system

In addition to improved vision capability, the DRc vision system gives Speedprint users the unique capability of checking for solder paste presence on the stencil before printing. The vision system aligns the PCB with the stencil using fiducial marks and/or PCB/Stencil features. It's as simple as a click.

The simplified nature of the SP700 series interface provides comprehensive self diagnostic capabilities, such as production logging and automatic fault report generation which enables "on the fly" troubleshooting. This means we can support your machine and process remotely, from anywhere in the world.

Our precision machined print head features closed loop squeegee control as standard, with fully programmable print parameters. The print head can be equipped with industry-standard squeegees or enclosed print head cartridges.

Adding to the flexibility of the SP700 platform is the capability to process ultra thin PCBs down to 0.2mm.

This is achieved through installation of the UTC System which enables the PCB to be clamped top and bottom with equalised pressure and independently of the drive belts, thus producing zero distortion.

SPECIFICATIONS

Max board size	610 mm (x) by 508 mm (y)
Min board size	45 mm x 45 mm
Alignment Repeatability	20 µm @ 6 Sigma 2 cpk
X/Y PCB Alignment	±5 mm
Stencil load/unload	Automatic
Squeegee material	Metal or Polyurethan
Squeegee pressure	1 kg to 20 kg
Print speed	5 mm/sec to 250 mm/sec
Board clamping	pneumatic foils
Board stop	fully programmable
Throughput time	11.5 secs (standard)
Up/down line protocol	SMEMA compatible
Operating system	Microsoft Windows™ 7 Pro
Power consumption	13 amps
Power supply	110V to 240V ac, single phase
Operating Temperature	10°C to 35°C @ 30% to 50% RH
Weight	650 kg

FOR FULL SPECS
SCAN HERE





SP210

// Robustness and precision in a compact footprint for easy line integration into existing production floor layouts. //

DESIGNED TO FIT

For some Speedprint customers, the SP210avi is the first foray into fully automatic inline surface mount assembly.

With its small form factor, the platform fits easily in place of a semi-automatic machine, enhancing throughput and quality to boost productivity. It shares its performance and accuracy DNA with high-end Speedprint platforms, and delivers the same superior alignment metrics without the need for fiducial. Which is why, for other customers, the SP210avi is the ideal machine to deploy existing 23-inch stencils and streamline production

COMPACT FOOTPRINT



BIG PERFORMANCE

As a great starting point for fully automatic inline printing, the SP210avi is hard to beat. Capable of handling small boards and panels with stencil sizes down to just 300mm (12 inches), the SP210avi is equally able to address the challenging performance demands of high volume manufacture. All this from the most compact printer form factor in its class. A fact that eases the burden on factory floor real estate.

210avi features closed-loop print control, a host of programmable features and retains direct SMEMA compatibility for straightforward line integration.



VISION

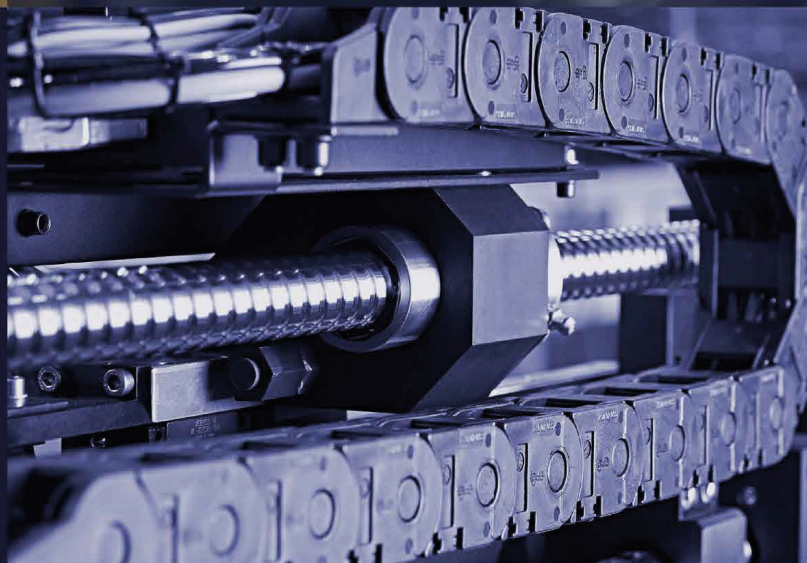
Flexible inline fine pitch printing requires distinct equipment functions. Machine vision is just one, but one that makes a positive impact on both throughput and final print quality. SP210avi deploys Speedprint's unique vision system with dual roving cameras. The system's 'look down - look down' function ensures highly accurate and repeatable stencil alignment using board features and stencil apertures or fiducial marks.

But precision is pointless without paste. To prevent defects, SP210avi also uses its vision system to perform Optical Paste Bead Inspection, verifying paste presence on the stencil before each print cycle and alerting to insufficient volume.

TOUGH AND PRECISE

Like all Speedprint platforms, SP210avi is a robust, design-optimised printer built to last. It uses common high-spec components with other platforms in the range.

- Automatic rail width adjust.
- Programmable board stops and pneumatic clamping.
- Highly efficient vacuum-assisted under stencil cleaning. Fully programmable. Wet or dry, with or without vacuum.
- Auto stencil loading and eject streamlines product changeover.
- Closed loop squeegee control for print process optimisation. Fully programmable print parameters.



SPECIFICATIONS

Max board size	450 mm (x) by 400 mm (y)
Min board size	50 mm x 50 mm
Alignment Repeatability	20 µm @ 6 Sigma 2 cpk
X/Y PCB Alignment	±5 mm
Stencil load/unload	Automatic
Squeegee material	Metal or Polyurethane
Squeegee pressure	1 kg to 20 kg
Print speed	5 mm/sec to 250 mm/sec
Board clamping	pneumatic foils
Clamping thickness	0.4 mm to 5 mm
Board stop	camera mounted fully programmable
Throughput time	12 secs
Up/down line protocol	SMEMA compatible
Operating system	Microsoft Windows™ 7 or higher
Power consumption	13 amps
Power supply	110V to 240V ac, single phase
Operating Temperature	10°C to 35°C @ 30% to 50% RH
Weight	500 kg

FOR FULL SPECS
SCAN HERE



speedprint
TECHNOLOGY

5
YEAR
WARRANTY

OUR BEST OPTION IS NOW STANDARD

You can choose to configure Speedprint platforms with options in many different ways. But one thing you'll now get for free is a five-year warranty on all parts. Across the range. And around the globe.

Like much of the technology in our printers, it's unique in the industry. And it's rooted in reliability, based on a robust design and proven European build quality. It's reassuring to know it's the one product feature you probably won't need.

Find out more at www.speedprint-tech.com/warranty





ONE PLATFORM
NO LIMITS



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