trotec

SpeedMarker Series

Laser marking systems
Created for automation

SETTING NEW STANDARDS

Created for Automation

The use of the marking lasers in the SpeedMarker series leads to enormous productivity, supports automation processes and inspires by the simple handling - both in data preparation and in daily work. By marking dynamic data and with endless possibilities for AdvancedScripting, the SpeedMarker series is exactly the right choice for machine manufacturers, toolmakers, engravers and job shoppers. Individual components as well as large batches are marked with a laser class 2 system for complete traceability, brand communication or with functional markings. This saves time and reduces your unit and running costs. The efficient production of permanent marking on almost all metals and, with the MOPA option, on many plastics is guaranteed.

The laser markers from Trotec offer you endless possibilities for the design of direct component marking, logos, designs, dynamic data (barcodes, serial numbers, etc.), photos as well as legible 1-point fonts and the smallest geometries. Additionally, the marks meet the highest quality requirements in terms of legibility and durability - enabling compliance with the most stringent guidelines such as UID, UDI, etc. The laser cells have a robust design, are designed for longevity and comply with laser class 2.

SpeedMarker 300
Desktop laser for small components

SpeedMarker 700
Precise marking with minimum space requirement

The design of direct component marking, logos, designs, dynamic data (barcodes, serial numbers, etc.), photos as well as readable 1-point fonts and smallest geometries is all possible with the SpeedMarker marking lasers. Trotec's laser markers meet the highest quality requirements in terms of legibility and durability of the markings – enabling compliance with the most stringent guidelines such as UID, UDI, etc. The laser cells have a robust design, are designed for longevity and comply with laser class 2.

The laser processing cells also offer maximum flexibility in terms of size and number of components. Especially with SpeedMarker 1300, SpeedMarker 1350 and SpeedMarker 1600, individual large or heavy components can be handled just as easily as a large number of small components in trays.

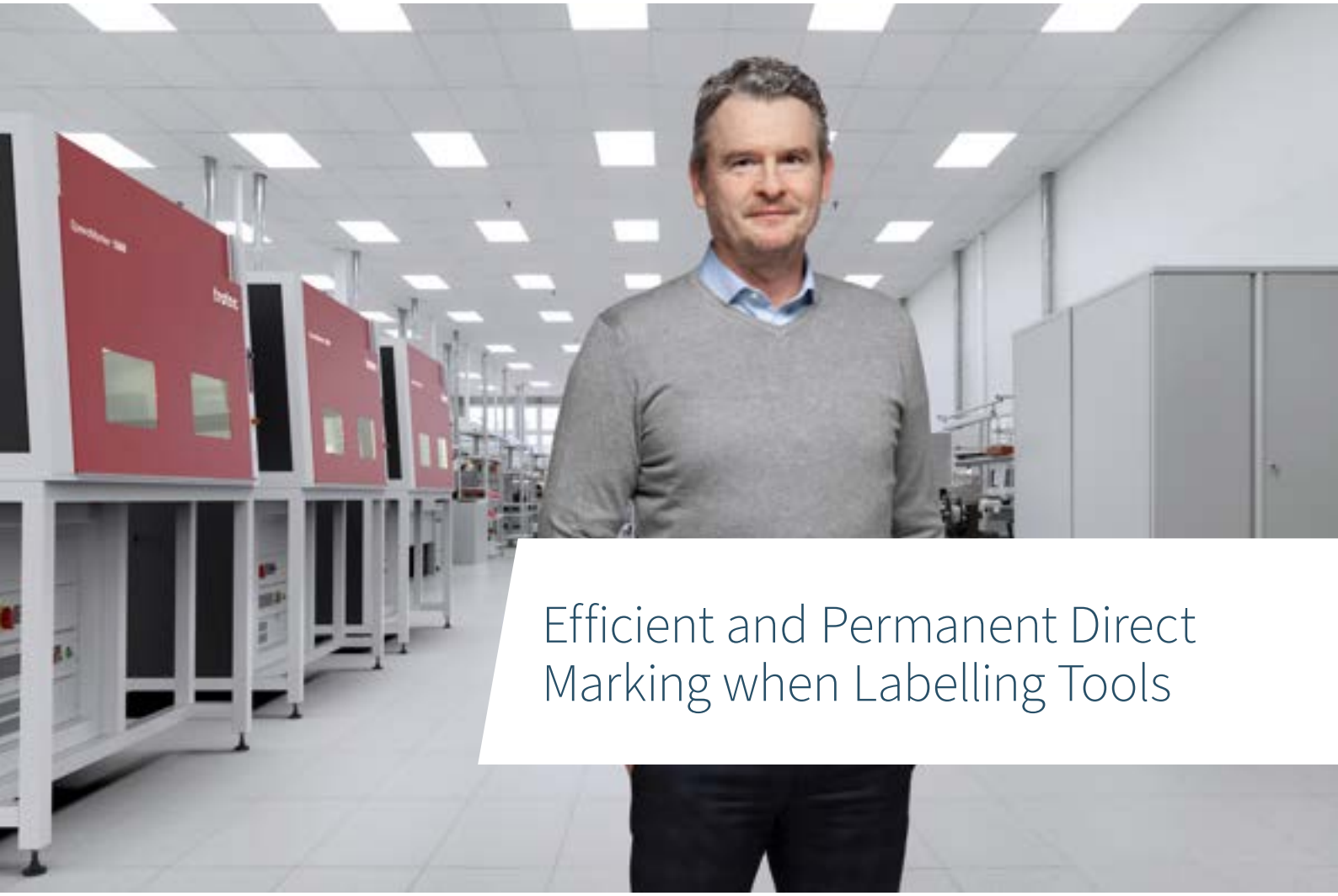
Complex marking sequences are efficiently created with the SpeedMark® software thanks to visual programming and predefined program modules. The variable axes and the segmentation options make it possible to string together several marking areas on components.This also applies when the SpeedMarker series is used for automated marking of various plastics and metals.

The product line is 100% developed and manufactured in Austria and Germany and sold through 18 sales subsidiaries, increasing profitability for customers in more than 90 countries. We advise and support our customers. The Trotec Academy offers training on materials and technology, and we make sure that our service and field team are always up to date on their knowledge. Exhaust systems, laser and engraving material and service products complete our product portfolio. As a manufacturer of high-tech laser systems, Trotec relies on the systematic expansion of its technological advantage, working closely with our customers to ensure this is possible.

SpeedMarker 1300
The all-rounder for laser inscriptions

SpeedMarker 1600
Marking of large components

SpeedMarker 1350
Laser markers with different loading concepts



Efficient and Permanent Direct Marking when Labelling Tools

Complete traceability and identification of various components and tools

The direct marking of components and machine parts ensures that the highest quality standards are met in various industries. This ensures the complete traceability and identification of various components and tools. The batch size plays a subordinate role here - regardless of whether it is a matter of a few different components in large quantities or a large number of different tools in small series. With the machines of the SpeedMarker series and the associated SpeedMark® software, dynamic data such as serial numbers, barcodes, data matrix codes, company names, lot numbers, etc. can be easily and efficiently applied in any case. Precision toolmakers can thus permanently mark a wide variety of metals and alloys.

Permanent marking on drills

Marking on parts of any shape

Perfectly marked milling cutter

Clearly readable codes on automotive parts

Branding on plastic power plugs

Markings of any kind on any part

Direct marking of machine parts add-on parts

Especially in mechanical engineering, there is a multitude of functional and optical markings that must be clearly traceable. Machine parts and add-on parts such as type plates are marked directly and contain important information for the further manufacturing process or for traceability at the customer. This is precisely why the permanent marking of variable contents, e.g. sequential numbers, on anodised aluminium, stainless steel and laminates is in the foreground. The large-format machines of the SpeedMarker series guarantee maximum flexibility with regard to component sizes. So you can mark your parts quickly and safely. You minimise the effort for logistics, e.g. to have type plates produced externally. You reduce the risk of confusion as only order related labels are created and you can react flexibly to special orders.

Unique Identification in Mechanical Engineering

High-Contrast Plastic Marking in the Electronics Industry

Clear markings on single pieces or large batches

The laser markers of the SpeedMarker series are also suitable for customers who want to mark a large number of identical components in a very short time. Especially in the electronics industry, Trotec's laser markers convince with their precise marking on different plastics, even in the smallest font sizes. Nevertheless, the large number of identical parts must be marked precisely and traceably and the workflow must be adapted to the industrial environment of large companies. With the possibility of integration with other systems such as SAP, the SpeedMarker series is also convincing in terms of maximum productivity, especially when marking plastics, while an even better marking result can be achieved with a MOPA fiber laser source.

Durable marking on an outdoor switch

Functional marking on black plastic

Individual marking on network socket

Typeplates for machines from coated metals


Plastic labels “Kiss-cut”

Annealing on stainless steel

Individual promotional items or changing data in large quantities

Regardless of whether promotional items are personalised, marking with variable data required in large quantities. In the case of engravers, individual inscriptions are applied to usually inexpensive source products in order to generate additional added value. In the advertising industry, large quantities are marked with the same text modules. For contract engravers it depends on the duration of production time. It is therefore all the more important to be able to offer a high degree of automation for this by integrating dynamic data from other systems and lists.

Individual Marking for Contract Engravers

Endless Application Possibilities

SpeedMarkers help meet a variety of manufacturing requirements for direct marking, asset management, unique identification and more. From automatic code generation and serial number generation to embedding data from external systems such as SAP systems, everything is possible. In addition, the software module SpeedMark® Vision allows for precise, camera-assisted positioning of markings on components.

High-contrast plastic marking with MOPA Laser

Pin sharp labelling on different levels

Colour change of plastics

Engraving type plates

Marking medical instruments

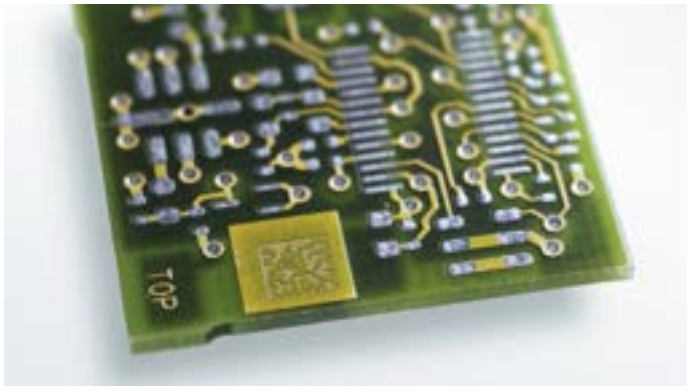
Clear labelling as plagiarism protection

Precise laser marking on steel

One hundred percent identification

Deep engraving in metal

Inscription of inner radius



Smallest font sizes on electronic components

Individualisation in large quantities

Marking of plastics

Marking according to the strictest guidelines

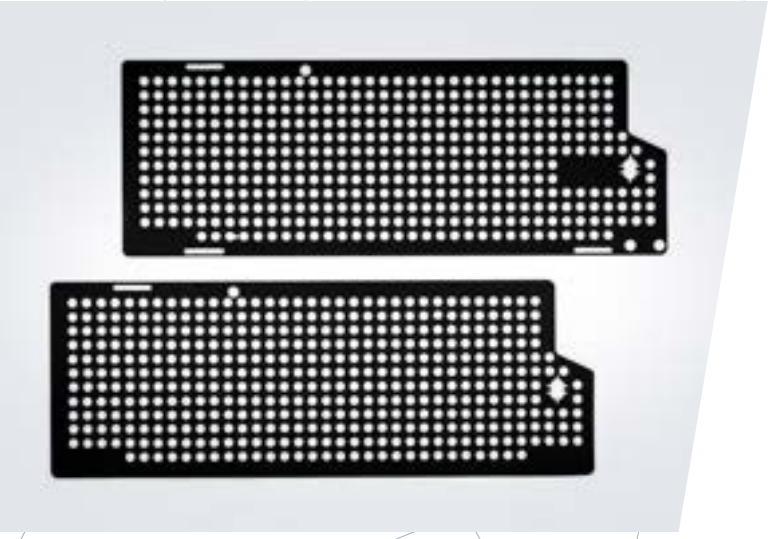
Customer Statements

Engine specialist Van der Graaf uses Trotec SpeedMarker series marking lasers for flexible marking of components and nameplates.

"We use the SpeedMarker 700 to mark the brand and logo on our motors, along with all its specifications and certifications. The system is fully integrated with our ERP, once we scan the work order all the info is automatically pulled. Trotec offers impeccable support especially in the early stages of programming and calibration. The SpeedMarker 700 offers the highest quality of marking on stainless steel and mild steel units. "

George Barbuc - Project Manager, Van der Graaf, The Netherlands

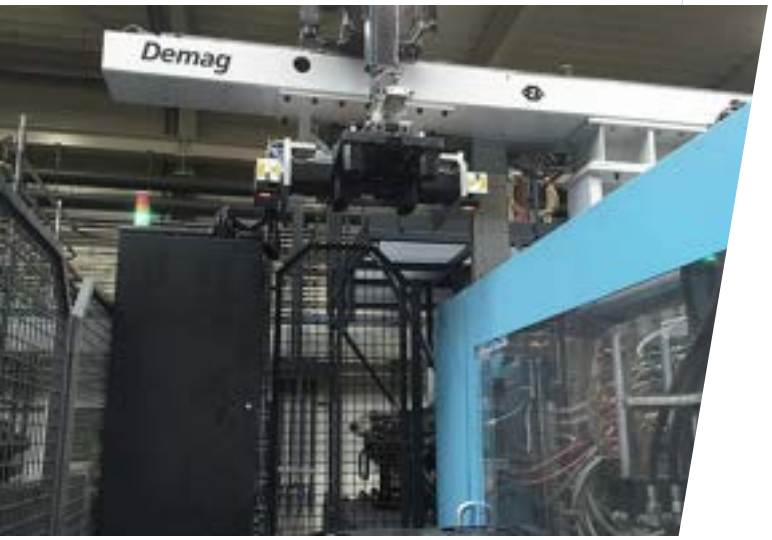
Tocana is specialised in the design, development and manufacture of electrical and electronic insulation solutions. They cut flame retardant electrical insulators.



"At Tocana we pride ourselves on our reaction time. We have built our reputation on super quick response times and our ability to provide solutions quickly and economically. We had been looking at upgrading some of our existing cutting systems but wanted something really special and fast. The SpeedMarker was not the only machine we looked at but once our engineers started to work with their counterparts in Trotec that was that. Trotec were able to customise the product to suit our industry requirements and they delivered exactly what we needed in record time. We are already working with Trotec on a second system."

Fearghal McEvatt - Managing Director, Tocana Ltd., Ireland

AVK Plastics from the Netherlands are using five laser systems for marking their plastic pallets.



“We have chosen for laser systems, because it's a one time investment. In the past, we used stickers, but the costs for materials are recurring and the chance of malfunction is higher. The lasers are now only used for marking the pallets, but in the near future we would like to expand that to other products. We've chosen Trotec, because we wanted quality as well as know-how. Of course we made a comparison between several laser producers, but the quality of the Trotec marking was the best one. We had a very pleasant cooperation with Trotec. They not only deliverd the laser systems, but they also helped thinking for an ultimate set-up. In the end, we took care of the integration process. This took some time, but we're very happy with the result"

Peter de Greef - Pject leader AVK Plastic, The Netherlands

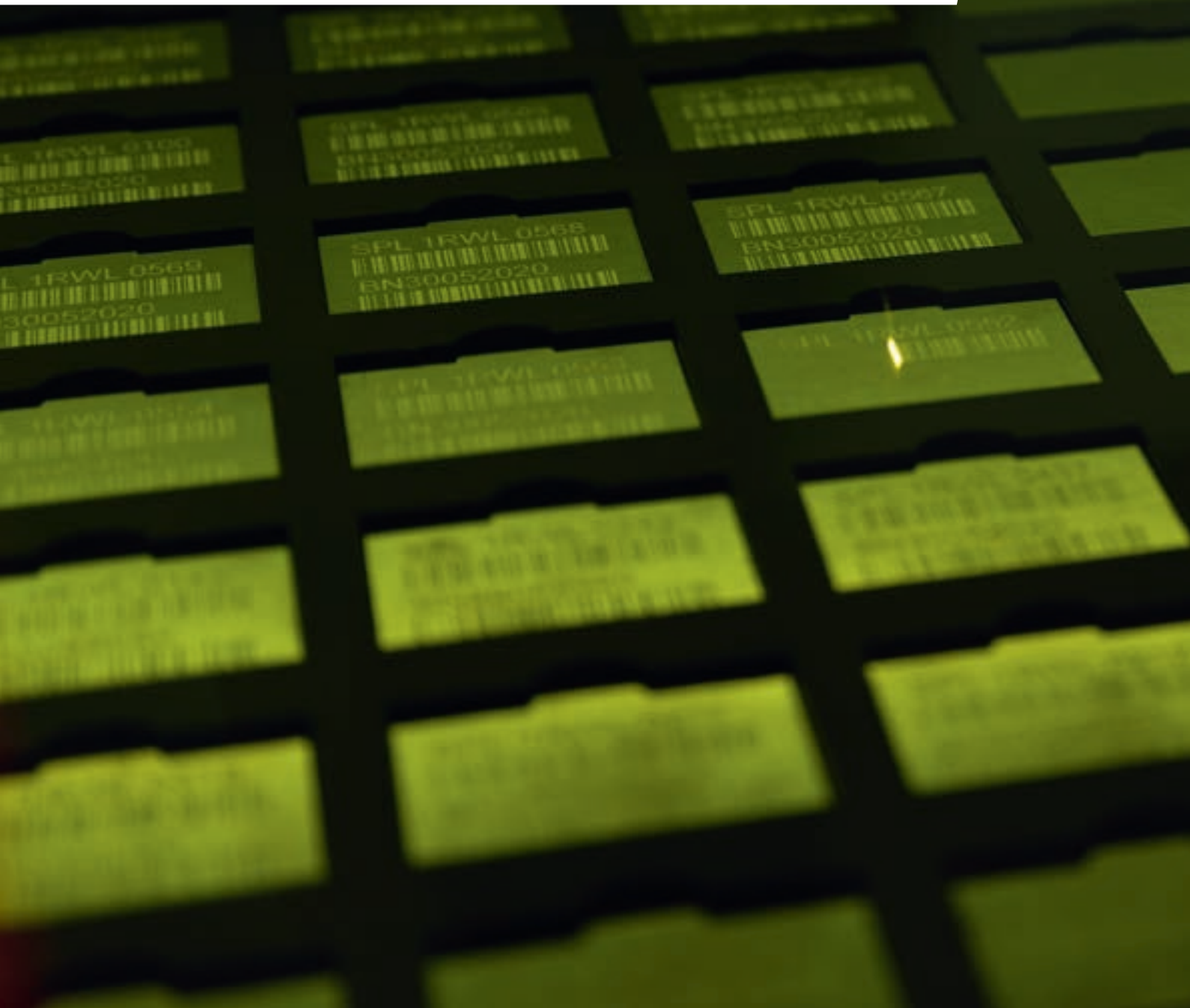
Howden Turbo GmbH is a mechanical engineering company with ~ 6,000 employees worldwide that develops and manufactures turbomachinery for a wide range of industrial applications in oil & gas, power generation, process engineering, wastewater treatment, etc.

Howden Turbo GmbH has selected the SpeedMarker 1350 laser marker, with customisation.
In addition to the engraving quality and the fast finding of suitable material parameters, the laser marker was particularly convincing due to the extensive possibilities of process scripting in the SpeedMark software. This makes it possible to reduce the error rate in the production process to an absolute minimum and, because it is so user-friendly, does not require extensive training.
The in-house produced nameplates make Howden Turbo more flexible in terms of time and less dependent on suppliers. On average the company saves 60% of the cost of previously purchased nameplates.
"The employees and also our customers benefit from the high-quality marking of our components, which can be produced with the SpeedMarker 1350."

Moritz Müller - Engineer Manufacturing Projects, Howden Turbo GmbH, Austria

Ideal for Almost All Metals and Plastics

Trotec's SpeedMarkers meet a wide range of demanding and unique requirements for industrial marking on various surfaces. It works with many different metals and plastics, resulting in superior application results. Markings such as codes, serial numbers or other dynamic content for tracking, as well as logos or text for functional marking or to protect against imitation.



	Marking			Engraving			Cutting		
Metals	CO_2	Fiber	MOPA	CO_2	Fiber	MOPA	CO_2	Fiber	MOPA
AlumaMark				●					
Aluminium anodised				●	●	●			
Aluminium blank	○		●		●	●			
Brass				○	●	●			
Copper					●	●			
Gold			●		●	●			
Painted metal				●	○	○			
Stainless steel		●	●	○	●	●			
Steel					●	●			
Titanium			●		●	●			
Plastics									
Acrylic (PMMA)				●					
Acrylonitrile butadiene styrene copolymer (ABS)				●					
Foam (PVC free)				●					
LaserFlex				●					
Polyamide (PA)		○	○	●					
Polybutylene terephthalate (PBT)				●					
Polycarbonate (PC)		●	●	●					
Polyester (PES)				●					
Polyethylene (PE)				●					
Polyethylene terephthalate (PET)				●					
Polyimide (PI)				●					
Polyoxymethylene (POM) -i.e. Delrin®				●					
Polyphenylene sulfide (PPS)				●					
Polypropylene (PP)				●					
Polystyrene (PS)				●					
Polyurethane (PU, PUR)				●					
SAN							○		
Melamine				●			○		
Other materials									
Paper				●			●		
Rubber				●			○		
Textile	○			●			●		
Leather		○	○	●			●		
Wood				●					
Cork				●					
Stone				●					
Glass, Mirror				●					
Laminates (2ply plastics)				●					

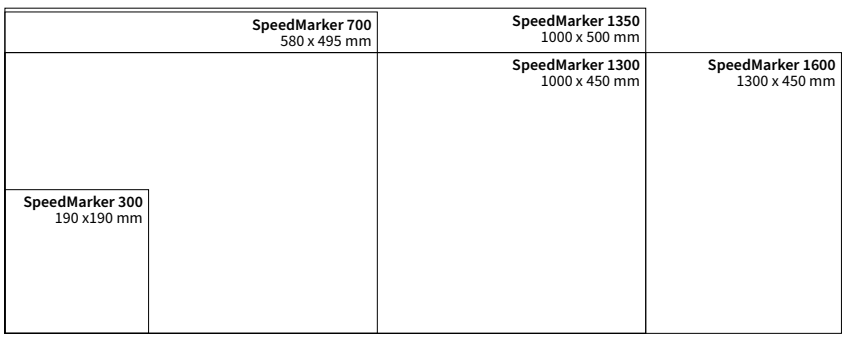
Please note that certain types of material should not be engraved or cut with a laser because of their chemical composition. These materials contain dangerous substances that are released during processing in the form of gases and dust, jeopardising both the user and the functioning of the machine. Some of these materials include:

- Inferior leather (Chrome VI)
- Carbon fibres (carbon)
- Polyvinyl chlorides (PVC) including
- PVC based synthetic leather
- Polyvinyl butyral (PVB)
- Polytetrafluorethylenes (PTFE /Teflon®)
- Beryllias
- Materials containing halogens (e.g. fluorine, chlorine, bromine, iodine and astatine), epoxy or phenolic resins.

Important: Be wary of materials specified as “flame retardant”. This property is achieved through bromine, which is then released during processing.

○ Depending on material and colour combination. Testing in advance absolutely necessary.

Created for Automation

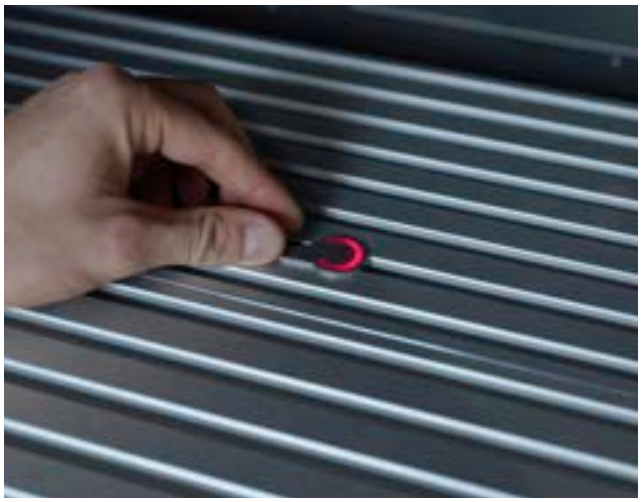


Flexible working area

Due to the large number of different work surfaces and machine sizes, the marking of many different components is possible. With the pass-through option of the SpeedMarker 300, even long components can be marked.

Automated productivity

The SpeedMark® software not only centrally controls the laser process, but also offers automation-friendly interfaces for connecting external data and control commands. Infinite scripting possibilities guarantee consistent quality for recurring markings. The legibility of the marking is guaranteed by high quality optics and components. Irrespective of whether many small components or large individual parts are involved.

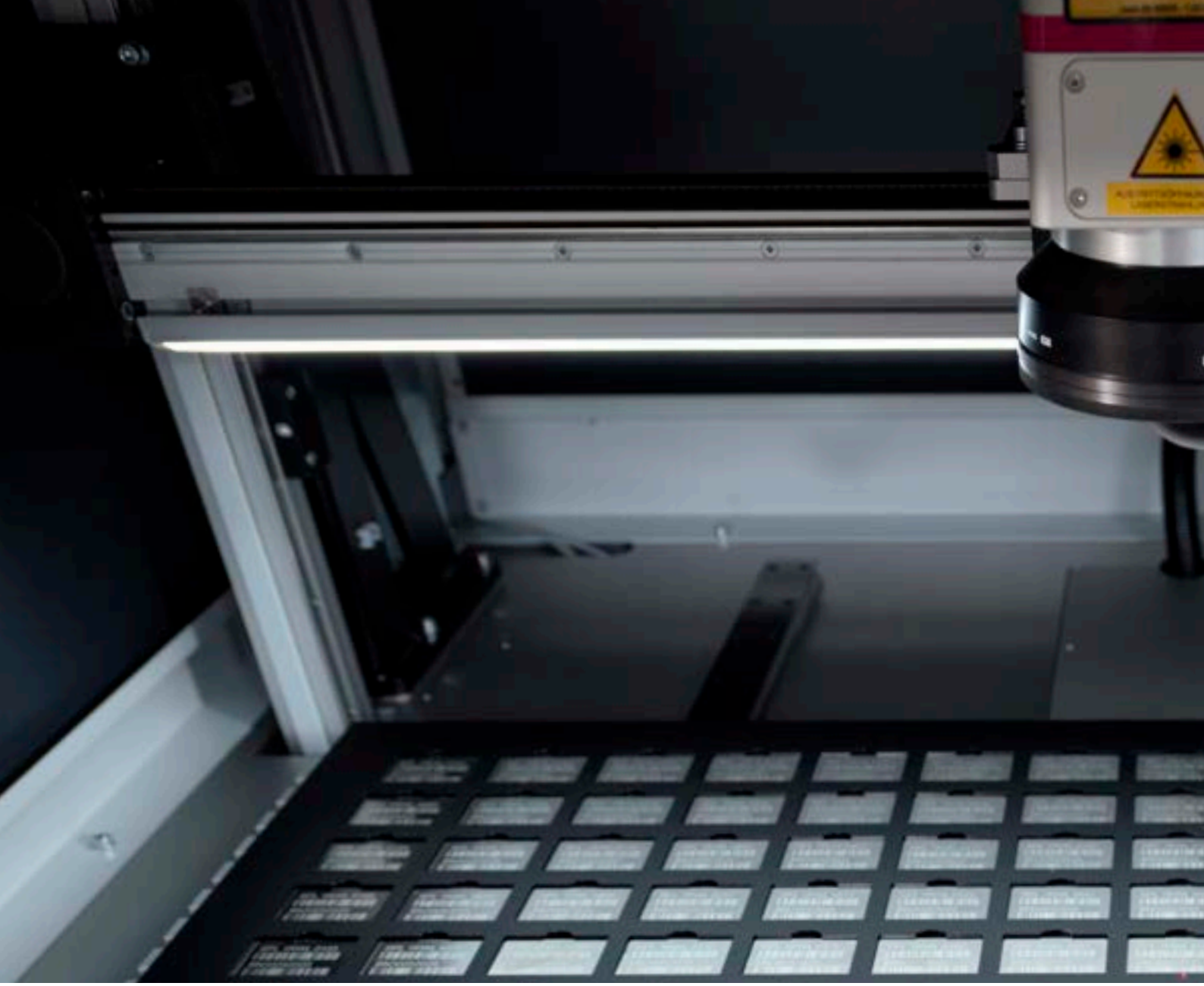


Instant productivity

The SpeedMark® software convinces with its graphic process-oriented user interface. This means that marking processes can be visually mapped without extensive previous programming knowledge. The Focus Finder helps to reduce commissioning times. Cycle times can be minimised with the Focus Shifter. The integrated parameter database for various materials also helps to save time and money. This reduces your rejects to a minimum, both for custom-made products and in series production.

Reliable productivity

The SpeedMarkers and associated software are designed to ensure not only simple and intuitive operation, but also full safety in handling the laser cell. All functions and productivity enhancing options always take the maximum laser and machine safety into account. This includes automated lift doors and rotary indexing tables for rapid part changes and the machine lighting and window concept for operator and work ergonomics.



Automated Productivity

From single parts to individual batches

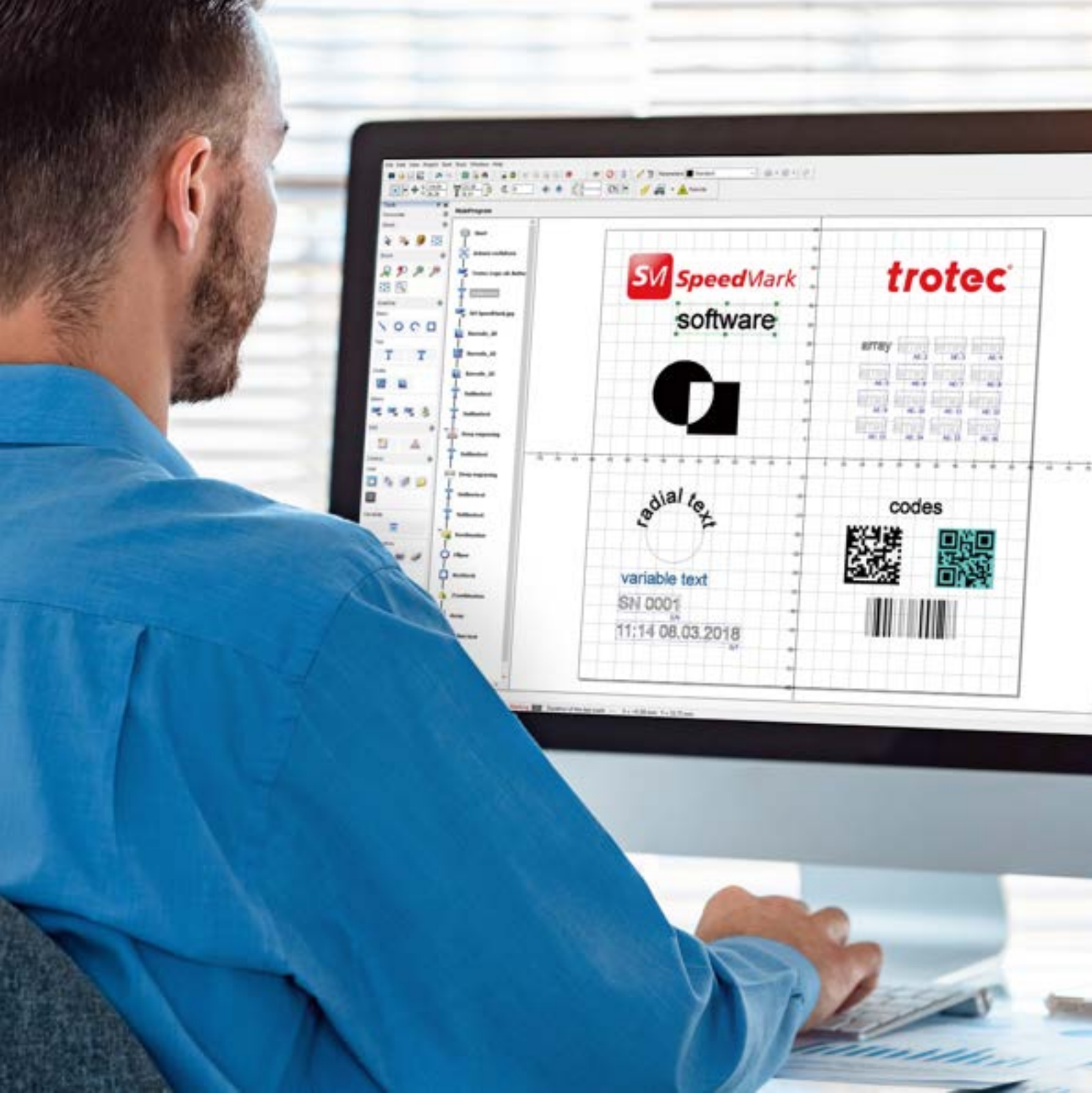
Thanks to the large processing area of the SpeedMarker 1300 to 1600, a large number of small components can be marked with individual data as well as large-volume individual parts in a single operation. Special parts can also be adequately marked despite time pressure in line production. For many identical parts, templates are produced for better handling. On the one hand, the large work volume offers the possibility of marking large components. On the other hand, the installation space can also be used to increase productivity. For this purpose, for example, the SpeedMarker 1350 can be equipped with a shuttle table and one table can be reloaded simultaneously while the other is being processed.

Reliable serial production thanks to secure user interfaces

In order to increase the efficiency and quality of individual work orders, it is advisable to map the process using various scripting options by default. Once the process has been described in the scripting, only two things need to be done after each job is completed: 1. insert the parts to be marked and 2. press the start button. Thus, the marking process can be reproduced identically by changing operators and error sources are reduced to a minimum. Standard software interfaces also help to eliminate unnecessary sources of error.

Unique marking quality and therefore reading reliability

Even with the smallest font sizes, legibility is still ensured by precise lettering. High detailed sharpness, high contrasts and deep engraving prove the demanding marking quality. For deep engraving there is a special deep engraving function which leads to clean burrs without any post-processing. Thanks to the MOPA laser source, high-contrast markings on plastics can be carried out even more precisely. MOPA lasers can also be used to apply annealing marks on anodised aluminium and - under defined conditions - colour markings on stainless steel as well as precise metal engravings over the entire marking area. High-quality optics are used as standard for perfect marking results.



Visual Programming – Fast and High-Volume

Design your perfect marking content.

What do you want to mark? Graphics? Serial numbers? Barcodes? SpeedMark® offers a solution for nearly every task.

Dynamic Data
Serial numbers, date formats, time stamps, automatic sequential bar code generation with just one click

Different marking contents
Full or line text, circular text, 1-D and 2-D codes, graphics and photos, PDF documents with different layers

Import your data
Graphic files (jpg, bmp, etc.), DXF files and PDFs containing different layers.

Boost your productivity with graphical workflows

Do you want to mark more efficiently? SpeedMark® supports you to create a workflow.

Drag&Drop of flow chart elements
SpeedMark® represents complex program sequences in a simple way through its unique combination of flow chart for the program execution and a graphic field for marking.

Array function
If many small pieces need to be laser marked, SpeedMark® has a workpiece carrier or template that makes it possible to mark them in just one pass.

Deep engraving function
Multiple processing passes as well as the adjustable focal distance guarantee deep engravings without refocusing.

Get the optimum result

Every material is different and so SpeedMark® supports many tools to get a perfect mark.

Material database
The easiest start – ready-to-use, predefined or own parameter settings are selected from the material database. A wide range of parameters for a wide variety of laser powers and objectives.

Cleaning function
This function improves readability of codes on metal surfaces by automatically increasing the contrast.

SpeedMark® Vision
This optional camera-assisted tool is used to position the marking on workpieces even more accurately and faster. It also helps avoiding expensive defective products thanks to the feature SmartAdjust.

Create fail safe automation
Get the optimum result solution

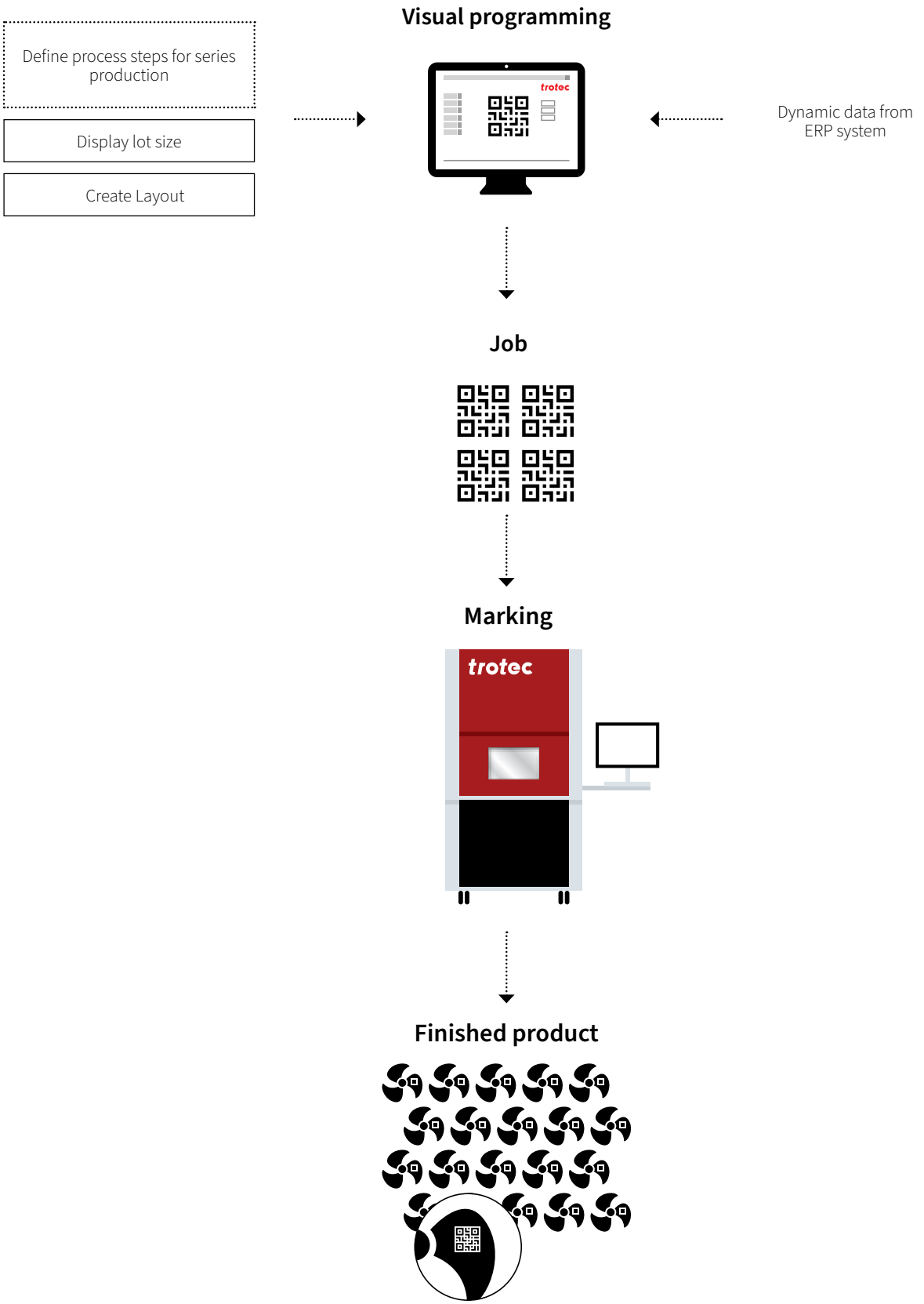
You have a fixed workflow but now you want to protect it and make it easy to use for any operator? Or you have a more complex program?

Advanced Scripting
Visual basic based scripting solution connected to workflow elements and the ability to adapt code without compilation.

User screens
Custom screens can be created from templates, which are already connected to the program.

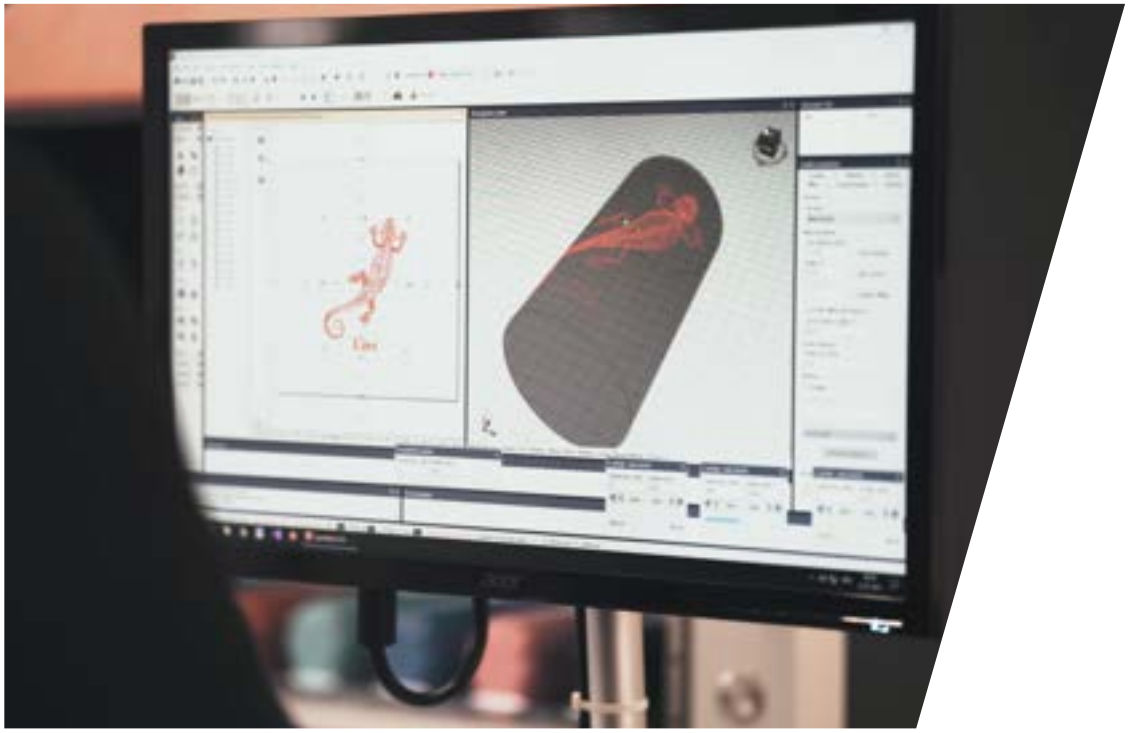
Connectivity
Communication is via Digital IO, RS232 or TCP/IP with other devices.

Software with a unique graphical user interface for quick and easy process improvements. The simple automation of process steps leads to consistent quality with recurring markings. Password-protected user interfaces support error-free production processes in series production.



Easy, Fast and High Quality Marking in 3D

Fast and distortion-free marking of cylindrical objects. Easily mark multiple objects in your workstation at one single run and save costs for additional rotaries. And this with the highest throughput in production.



3D Option for SpeedMark:

- available for XYZ-axis workstations in SpeedMarker 700, 1300, 1350 and 1600 with DS (dynamic shifter)
- for 20 W marking and 100 W engraving MOPA Laser sources

Marking on 3D objects like:

- tilted planes up to 60°
- balls and bowls
- cylinders and inside tubes
- Even marking on one shape with different diameters is possible.

Instant Productivity

Avoid rejects

A special highlight of the SpeedMarker series is the border marking function to project on to the surface to be marked including the contour of the component at any time, position it in real time and correct it, if necessary, with a mouse click. This reduces the number of failed attempts to a minimum.

Cycle time optimisation with Focus Shifter

The Focus Shifter is a new option of all machines of the SpeedMarker series which enables shortest cycle times even when marking on different levels. The built-in Focus Shifter eliminates the Z-axis movement. This saves even more valuable time in each pass.

Less wastage when setting up new materials

The SpeedMark® software has a large library of predefined materials and the associated parameters for laser marking. This means a high quality laser mark can be produced in a short time minimising unsuccessful attempts. For very demanding materials, this collection of parameters serves as a guideline.

Short commissioning time with Focus Finder

The standard integrated Focus Finder helps to determine the focus of the laser beam, even if the component height is not known. By gradually adjusting the distance between the area to be marked and the laser head, the perfect focus can be determined - exactly when the two laser beams of the focus finder and pilot laser meet.

Reliable Productivity

Safe – a term with several interpretations

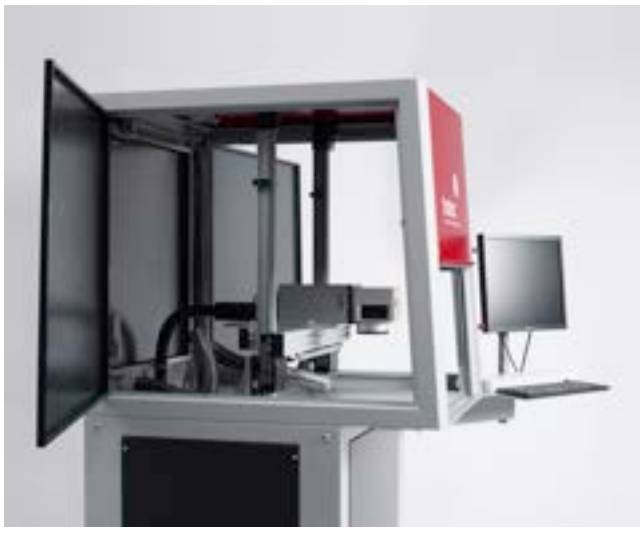
By being safely productive, we mean not only the safety of the operator in handling laser cells of laser class 2, but also that you are safe and productive in the sense of guaranteed and productive. Why guaranteed? Because at Trotec only high-quality components are used and they are therefore highly supported in daily productivity.

High component standards for reliability

Designed for an industrial manufacturing environment. The high quality construction additionally meets all requirements regarding reliability and robustness of the highest industrial standards. The large number of laser sources enables precise marking on different surfaces.

Laser and machine safety as top priority

By means of various loading concepts such as rotary indexing table, extendable table and double shuttle table, batches can be efficiently produced in large quantities. The gain in speed during the marking process and shorter loading times due to automatically opening doors lead to higher throughput. The lighting and window concept make it easier to monitor the processes.



Trotec Protection Plan

The warranty period of 2 years and the optional Trotec Protection Plan package ensure that you can produce 24/7 and reduce the risk of failure of your production to a minimum.

CO_2 for Processing of Organic Materials

Efficient marking of medium to large batches

The CO_2 lasers of the SpeedMarker series guarantee a fast processing time of all organic materials. They are used frequently, but not only for the finishing of wood and wood-based materials. Individual engravings can be marked very fast - by using templates, even more items can be marked in one pass. This is especially helpful when marking promotional items.

Easily create automated workflows

The highest productivity of the SpeedMarker series is achieved when marking articles in large quantities. The SpeedMark software is particularly impressive due to the simple creation of automated sequences. For example, name lists can be imported from text files and then processed automatically. The same applies to serial file processing of barcodes, numbers, etc.

High quality markings

Thanks to high-quality optics, a permanently consistent marking quality is guaranteed. The products are thus additionally enhanced by the individual marking. A high focus tolerance offers enormous advantages when working with products that do not have a 100% flat surface. The SpeedMarker with CO2 laser source is available in the SpeedMarker 700 as workstation of laser class 2 and SpeedMarker 50 for flexible use of laser class 4.

Better Environments with Atmos Exhaust Systems

Clean

The efficient and thorough filtration of dust, gas and odours extends the service life of your laser system and guarantees a clean and healthy working environment for every user.

Intelligent

For many years, Trotec has been working on optimal coordination of laser and extraction systems. The result is a host of intelligent features. For example, operation via membrane keyboard, the FlowControl Technology, a control function via the laser software and the Trotec iOS app.

Economical

A good extraction solution improves the engraving and cutting results. Low maintenance costs are guaranteed thanks to sophisticated filter solutions. Due to the bi-directional laser communication, the extraction is only activated when it is necessary. Thus, the laser optics are optimally protected and the filter service life maximised. Your advantage: Thanks to Trotec Service from a single source, the Atmos exhaust system is maintained together with your laser.

Trotec is also setting new standards with regard to exhaust systems with the Atmos series. We are the only laser manufacturer to produce models that are optimally adapted to the respective laser machine. A suitable exhaust system ensures the safe and clean operation of your laser machine. It reliably removes dust and gases from the processing area and, with its activated carbon filters, it filters out odours that may be generated during laser processing. The Atmos exhaust system helps to deliver the best possible engraving and cutting quality.

Atmos Mono

Stand-alone version with a turbine for applications with medium levels of dust generation. The Atmos Mono Plus version is available for particularly odour-intensive applications

Atmos Nano

Particularly compact and easy to transport, ideal for fiber laser applications with particularly small dust particles and minimal odour.

Atmos Duo Plus

Stand-alone version with two turbines for double the performance in demanding applications.

Atmos Pre-Filter

The use of an automatically cleaned pre-filter system is recommended if there is a large quantity of dust to be filtered. This is positioned between the laser machine and the exhaust system. If particularly tenacious particles are produced (e.g. when processing acrylic), the pre-filter can also be equipped with an optional additive dosage unit.

Our alliance with GS1 Australia

Since 2022, Trotec Laser Australia is proud to be recognised as a GS1 Australia Associate Alliance Partner and also barcode certified for Project i-TRACE.

Together, this allows us to have a thorough understanding of the GS1 standards and requirements which in turn allows us to work with our customers more effectively. Combined with the knowledge that our machines and software can generate fully compliant 1D and 2D barcodes provides customers with a level of assurance that investing in a Trotec laser marking solution will meet GS1 barcoding requirements across a variety of industries including medical, retail and rail.

GS1 Australia

Associate
Alliance Partner

GS1 Australia

GS1 Project i-TRACE Standards
Certified barcoding

About GS1 Australia and Project -TRACE

- GS1 Australia is part of a global organisation responsible for the development and administration of a set of standards for business-to-business communication including barcodes for all aspects of industry from point-of-sale logistics, asset management and traceability.
- GS1 Australia was approached by the Australasian Railway Association to provide a standardised barcoding system for assets and materials used across the rail industry, and the result was Project i-TRACE.

Setting New Standards: Globally and Down Under

Trotec is a world leader in laser technology headquartered in Austria and part of the Trodat Trotec Holding. With innovative concepts and products, we have succeeded again and again in setting new standards ever since the company was founded in 1997. Whether in terms of quality, new developments or service, we get the same result: enthusiastic customers around the world.

Showrooms in Australia and New Zealand:

Sydney (HQ), Newcastle, Brisbane, Melbourne, Adelaide, Perth and Hamilton (NZ)

Trotec's consistent commitment to customer support is the reason for the company's global success, as well as one of the central drivers of motivation and innovation globally. At Trotec, being close to the customer is not just an abstract value but a practised reality.

That's why we employ over 40 people across Australia and New Zealand, including a network of highly skilled technical service engineers, applications specialists and customer service advisors.

We have seven showrooms across Australia and New Zealand and our knowledgeable and experienced sales team are always on hand to provide advice and assistance.

Trotec is present in 18 countries with 68 demo rooms for laser product demonstrations. Overall, with 113 distribution partners we serve customers in over 90 countries.

SpeedMarker Portfolio Overview

	SpeedMarker 1600	SpeedMarker 1350
Maximum marking area[1]	1300 x 450 mm	1000 x 500 mm
Max. Workpiece height with F = 160[4]	424 mm	684 mm
Max. Workpiece height with F = 200[4]		
Max. Workpiece height with F = 254	317 mm	577 mm
Overall dimensions (W x D x H)	1600 x 1030 x 1790 mm	1300 x 1327 x 2040 mm
Max. marking speed	12 m/s	12 m/s
Max. positioning speed	12 m/s with F = 160 mm	12 m/s with F = 160 mm
Weight	500 kg	580 kg
Max. loading	50 kg	50 kg
Laser power		
Laser power fibre	20, 30, 50 W	20, 30, 50 W
Laser power MOPA	20, 100 W	20, 100 W
Laser power CO_2		
Laser class	2	2
Z-axis	●	●
X-axis	●	●
Y-axis	●	●
Software		
SpeedMark®, DirectMark	●	●
SpeedMark® Vision - Smart Adjust	○	○
Functions and Options		
Dynamic Shifter	○	○
Rotary attachment	○	○
Rotary attachment 2	○	○
Automatic lift door	●	●
Manual lift door		
Extendable table[3]		○
Double shuttle table[3]		○
Safety foot switch	○	○
High-Performance Industrial PC	○	○
Pass-through[2]		
Trotec Protection Plan	○	○
2 years warranty	●	●
External interfaces		
Laser interlock, Marking start (24VDC), Marking stop (24 VDC), E-stop, Error reset, Laser busy	●	●
TCP/IP/RS232/ Programmable digital I/O (4/4)	●	●
External programmable digital I/O (16/16)	○	○
Lenses	F = 100, F = 160[4], F = 210, F = 254, F = 330, F = 420	F = 100, F = 160[4], F = 210, F = 254, F = 330, F = 420
Compatible exhaust systems	Atmos Nano Atmos Pure 300 Atmos Pure 600	Atmos Nano Atmos Pure 300 Atmos Pure 600

● Standard ○ Optional

1 Depending on lens and configuration
2 Laser class 4 with pass-through
3 Reduces the maximum marking area
4 Standard scope of delivery

SpeedMarker 1300	SpeedMarker 700 Fiber	SpeedMarker 700RT (Rotary Table)
1000 x 450 mm	375 x 400 mm	310 x310 mm
450 mm	466 mm	195 mm
343 mm	359 mm	195 mm
1300 x 1030 x 1800 mm	780 x 981 x 1802 mm	780 x 1144 x 1804 mm
12 m/s	12 m/s	12 m/s
12 m/s with F = 160 mm	12 m/s. with F = 160 mm	12 m/s with F = 160 mm
400 kg	260 kg	300 kg
50 kg	50 kg, with y-axis 30 kg	20 kg
20, 30, 50 W	20, 30, 50 W	20, 30, 50 W
20, 100 W	20, 100 W	20, 100 W
2	2	2
●	●	●
●	○	
○	○	
●	●	●
○	○	○
○	○	
○	○	
○	○	
●	●	●
○	○	○
○	○	○
○	○	○
●	●	●
●	●	●
●	●	●
○	○	○
F = 100, F = 160[4], F = 210, F = 254, F = 330, F = 420	F = 100, F = 160[4], F = 210, F = 254, F = 330, F = 420	F = 100, F = 160[4], F = 210, F = 254, F = 330, F = 420
Atmos Nano Atmos Pure 300 Atmos Pure 600	Atmos Nano Atmos Pure 300 Atmos Pure 600	Atmos Nano Atmos Pure 300 Atmos Pure 600

SpeedMarker Portfolio Overview

	SpeedMarker 700 CO_2	SpeedMarker 300 Fiber
Maximum marking area[1]	1000 x 500 mm	190 x 190 mm
Max. Workpiece height with F = 160[4]		168 mm
Max. Workpiece height with F = 200[4]	310 mm	
Max. Workpiece height with F = 254		61 mm
Overall dimensions (W x D x H)	780 x 1188 x 1802 mm	445 x 938 x 851 mm
Max. marking speed	1.4 m/s	12 m/s
Max. positioning speed	9.9 m/s with F = 200 mm	12 m/s with F = 160 mm
Weight	260 kg	77 kg
Max. loading	50 kg	50 kg
Laser power		
Laser power fibre		20, 30, 50 W
Laser power MOPA		20, 100 W
Laser power CO_2	60, 120 W	
Laser class	2	2
Z-axis	●	●
X-axis		
Y-axis	○	
Software		
SpeedMark®, DirectMark	●	●
SpeedMark® Vision - Smart Adjust		○
Functions and Options		
Dynamic Shifter	○	○
Rotary attachment	○	○
Rotary attachment [2]	○	○
Automatic lift door	●	
Manual lift door		●
Extendable table[3]		
Double shuttle table[3]		
Safety foot switch	○	○
High-Performance Industrial PC	○	○
Pass-through[2]		○
Trotec Protection Plan	○	○
2 years warranty	●	●
External interfaces		
Laser interlock, Marking start (24VDC), Marking stop (24 VDC), E-stop, Error reset, Laser busy	●	●
TCP/IP/RS232/ Programmable digital I/O (4/4)	●	●
External programmable digital I/O (16/16)	○	○
Lenses	F = 100, F = 150, F = 200, F = 300, F = 400	F = 100, F = 160[4], F = 210, F = 254, F = 330, F = 420
Compatible exhaust systems	Atmos Nano Atmos Pure 300 Atmos Pure 600	Atmos Nano Atmos Pure 300 Atmos Pure 600

● Standard ○ Optional

1 Depending on lens and configuration
2 Laser class 4 with pass-through
3 Reduces the maximum marking area
4 Standard scope of delivery

SpeedMarker 50
Fiber

SpeedMarker 50
CO_2

SpeedMarker 50
CO_2

310 x 310 mm	310 x 310 mm	310 x 310 mm
449 x 619 x 177 mm	274 x 773 x 163.5 mm	274 x 988 x 172 mm
12 m/s	6.8 m/s	6.8 m/s
12 m/s with F = 160 mm	13.7 m/s with F = 200 mm	13.7 m/s with F = 200 mm
62 kg	26 kg	33 kg
20, 30, 50 W		
20, 100 W		
	45 W	60, 120 W
4	4	4
○		
●	●	●
○		
○		
○	○	○
○	○	○
○	○	○
○	○	○
○	○	○
●	●	●
●	●	●
●	●	●
○	○	○
F = 100, F = 160[4], F = 210 F = 254, F = 330, F = 420	F = 100, F = 150, F = 200 F = 300, F = 400, F = 720	F = 100, F = 150, F = 200 F = 300, F = 400, F = 720
Atmos Nano Atmos Pure 300 Atmos Pure 600	Atmos Pure 300 Atmos Pure 600 Atmos Pre-Filter VA5	Atmos Pure 300 Atmos Pure 600 Atmos Pre-Filter VA5

TROTEC**LASER**.COM

Trotec Laser Pty Ltd
T: 1300 876 832 / +612 64135904
E: info@troteclaser.com.au

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