trotec

SpeedMarker Series

Laser marking systems
Created for automation

SpeedMarker *1300*

Created for Automation

The use of the laser markers of 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 endless possibilities with AdvancedScripting, the SpeedMarker series is exactly the right choice for machine manufacturers, toolmakers, engravers and job shoppers. Individual components as well as large batch sizes 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 markings on almost all metals and, with the MOPA option, on many plastics is guaranteed.

By infinity we mean the design of direct component markings, logos, designs, dynamic data (barcodes, serial numbers, etc.), photos as well as readable 1-point fonts and smallest geometries. 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.

SpeedMarker 300
Desktop laser for small components

SpeedMarker 700
Precise marking with
minimum space requirement

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 to the laser markers of the SpeedMarker series for the automated and precise 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 1350
Laser markers with different loading concepts

SpeedMarker 1600
Marking of large components

Efficient and Permanent Direct Marking When Marking 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
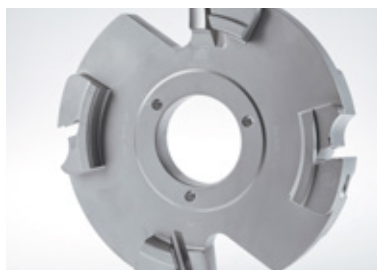
Marking on parts of any shape

Perfectly marked milling cutter

Perfectly readable codes on automotive parts

Branding on plastic power plugs

Mark any kind of information 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 flexible 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 cubatures. So you can mark your parts quickly and safely. You minimize 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 options.

Unique Identification in Mechanical Engineering
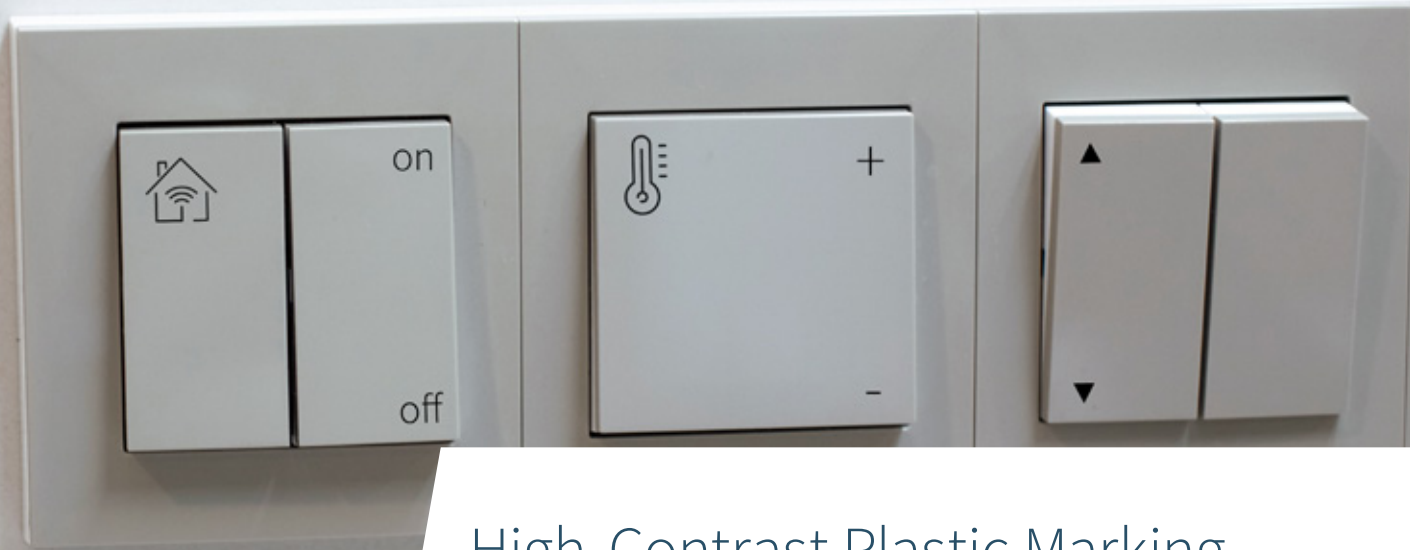
High-Contrast Plastic Marking in the Electronics Industry

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 clearly and traceably and the workflow must be adapted to the industrial environment of large companies. Due to the possibility of interface integration with other systems such as SAP, the SpeedMarker series is also convincing in terms of maximum productivity. Especially when marking plastics, 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 individual promotional items are personalized or order marking with changing data is carried out 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 the 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 stands for precise, camera-assisted positioning of markings on components.

High-contrast plastic marking with MOPA Laser

Pin sharp labelling on different levels

Color change of plastics

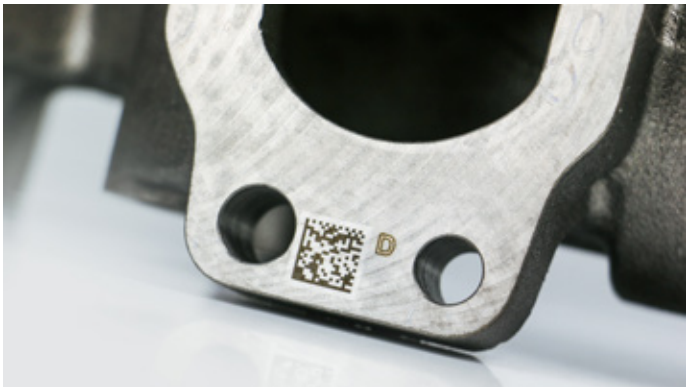

Engraving type plates

Marking medical instruments

Clear labeling as plagiarism protection

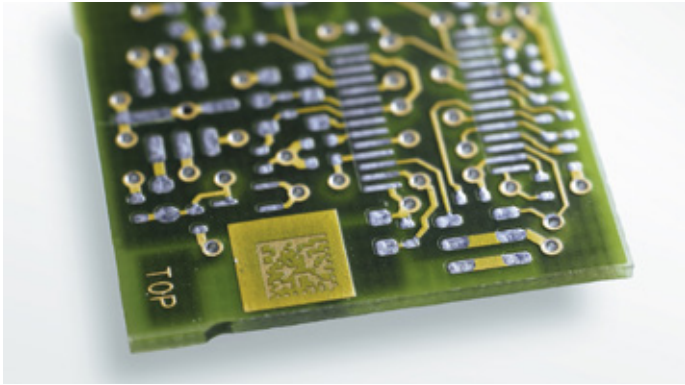Precise laser marking on steel

One hundred percent identification

Deep engraving in metal

Inscription of inner radius

Smallest font sizes on electronic components

Individualization 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 specialise in the design, development and manufacture of electrical and electronic insulation solutions. They cut flame retardant electrical insulators.
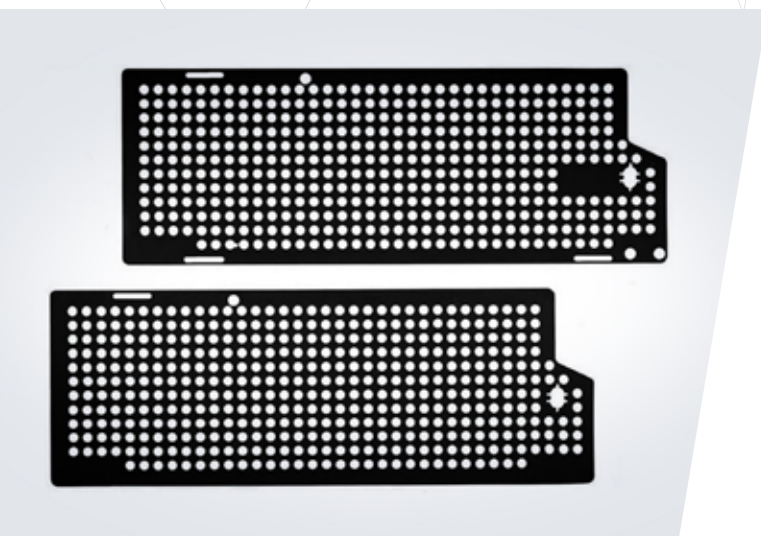
"At Tocana we pride ourselves on our reaction time. We have built our reputation on super quick response times and our ability to provide solutions quickly and economically. We had been looking at upgrading some of our existing cutting systems but wanted something really special and fast. The SpeedMarker 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.
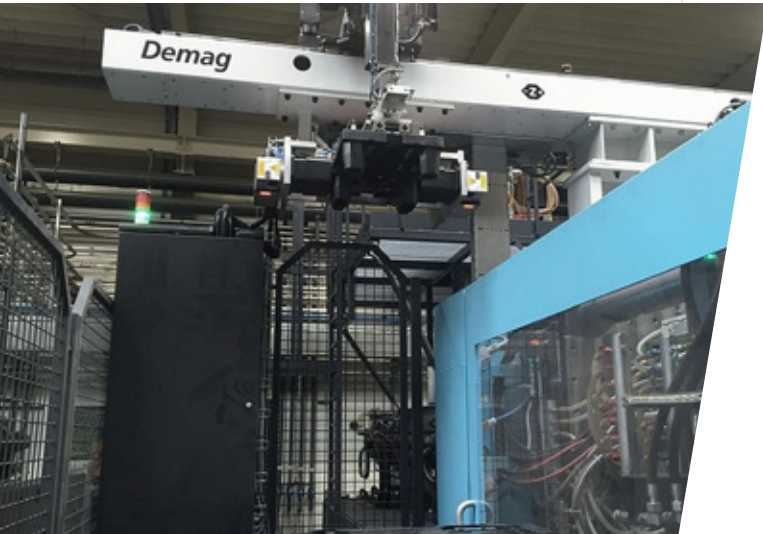
"We have chosen for laser systems, because it's a one time investment. In the past we used stickers, but the costs for materials are recurring and the chance of malfunction is higher. The lasers are now only used for marking the pallets, but in the near future we would like to expand that to other products. 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 are used to mark codes, serial numbers or other dynamic content for tracking, as well as to mark logos or text for functional marking or to protect against imitation.
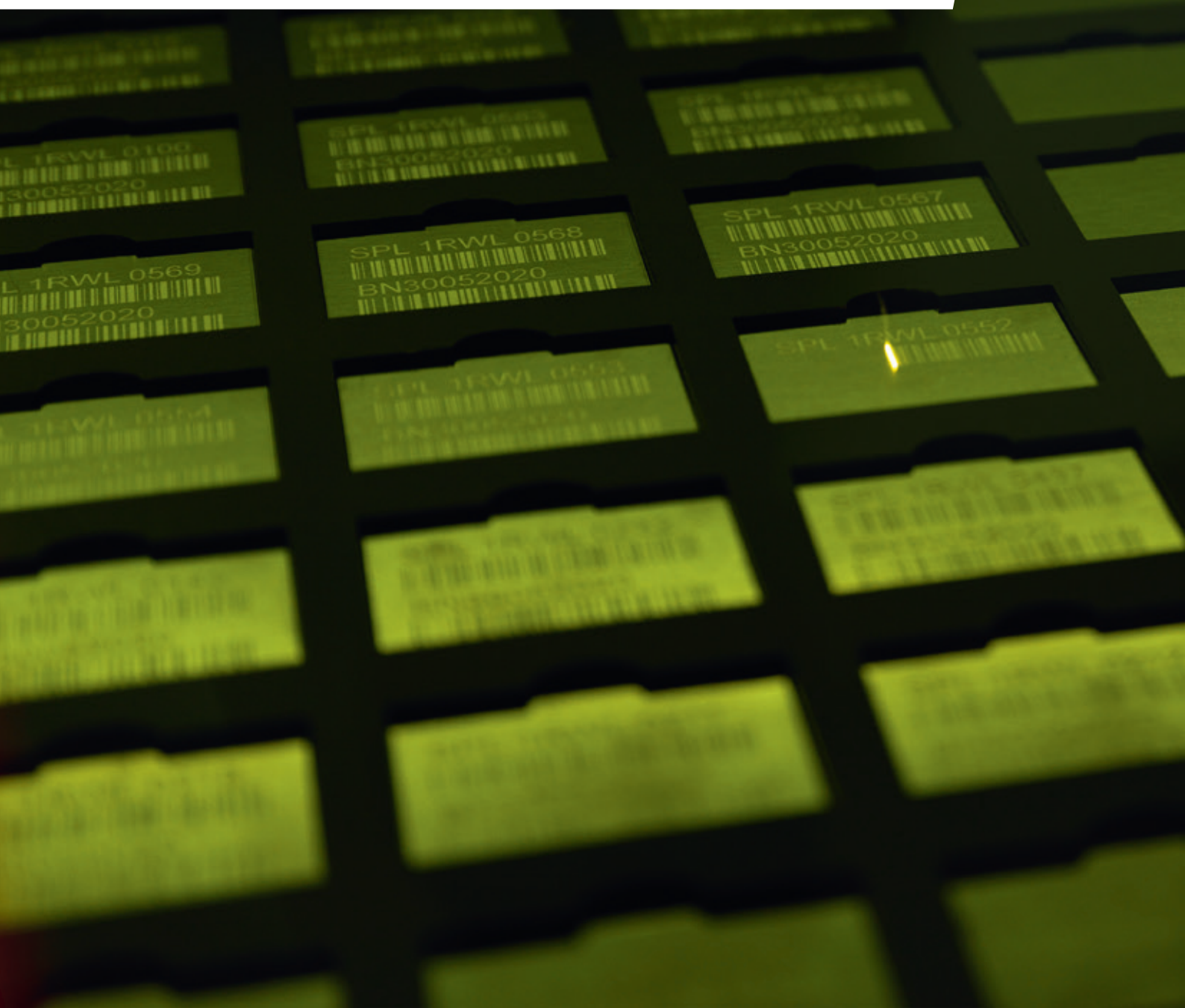
| Metals	Marking			Engraving			Cutting		
	CO₂	Fiber	MOPA	CO₂	Fiber	MOPA	CO₂	Fiber	MOPA
AlumaMark				●					
Aluminum anodized				●	●	●			
Aluminum blank	○		●		●	●			
Brass			●	○	●	●			
Copper					●	●			
DuraBlack				●	●	●			
Painted metal			●	●					
Stainless steel		●	●	○	●				
Steel					●	●			
Titanium			●		●	●			
Plastics									
Acrylic (PMMA)	●					○		○	○
Acrylonitrile butadiene styrene copolymer (ABS)				●					
Foam (PVC free)				●					
Laser Flex				●					
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)				●					
Other materials									
Paper				●			●		
Rubber	●						●		
Textile				●			●		
Leather		○	●	●			●		
Wood				●					
Cork				●					
Stone				●					
Glass				●					
Laminates (2ply plastics)				●					

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

- Inferior leather (Chrome VI)
- Carbon fibers (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.

○ Results may vary; subject to qualification due to high variability of material types

Created for Automation
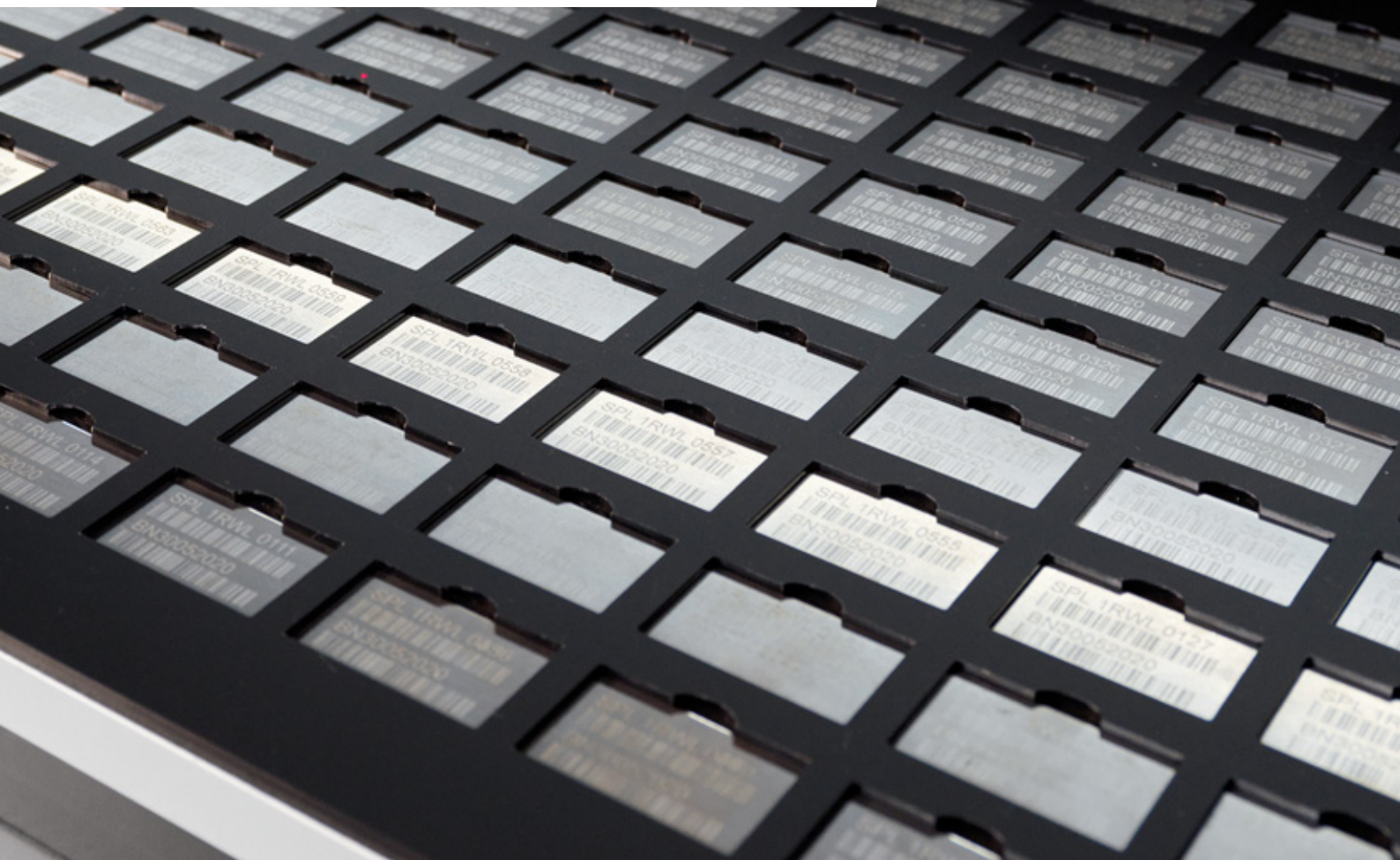
	SpeedMarker 700 580 x 495 mm	SpeedMarker 1350 1000 x 500 mm	
		SpeedMarker 1300 1000 x 450 mm	SpeedMarker 1600 1300 x 450 mm
SpeedMarker 300 190 x190 mm			

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 highquality 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 minimized 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

Software and machine are designed to ensure not only simple and intuitive handling, but also full safety in handling the laser cell. All functions and productivity-enhancing options always take 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.
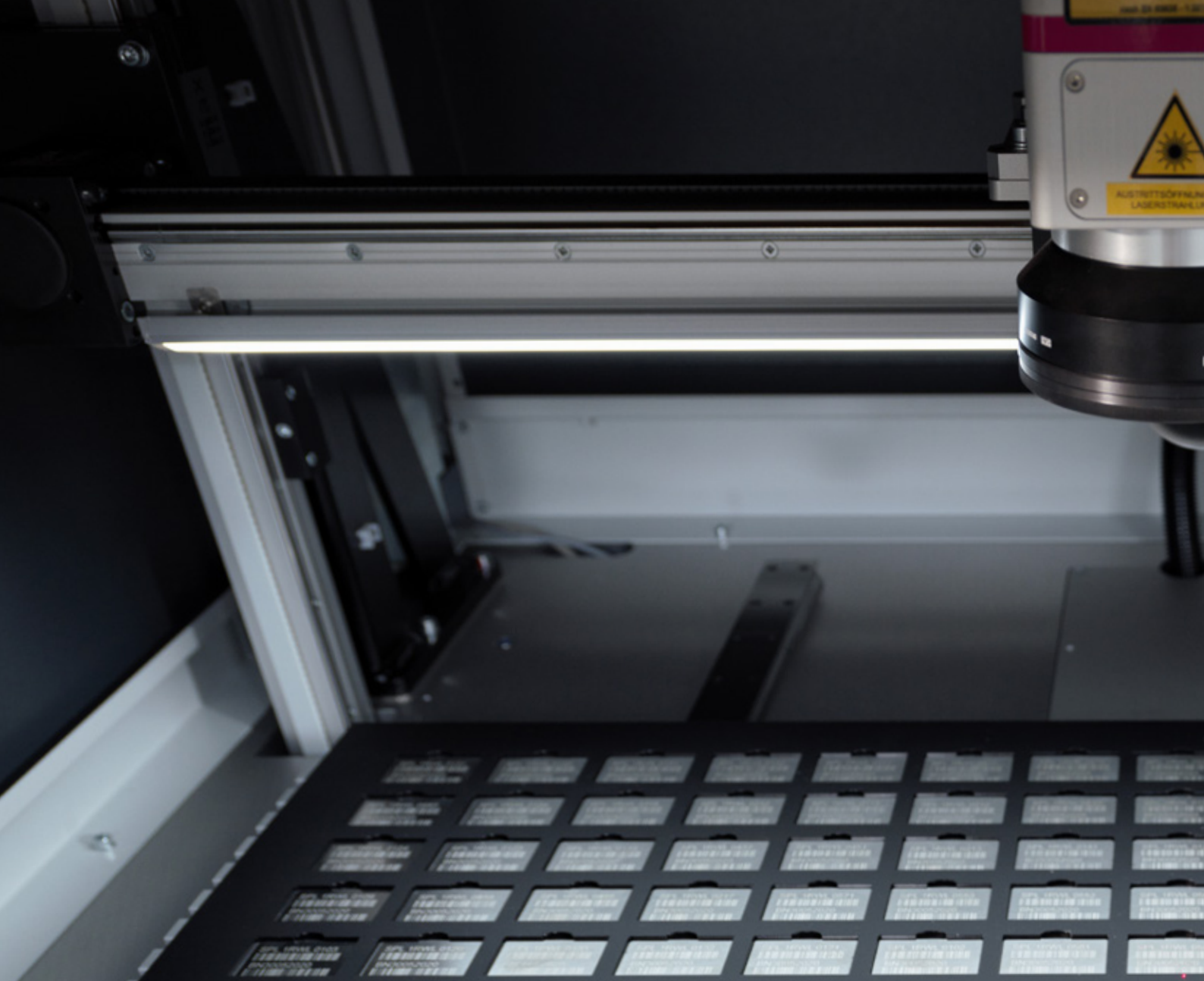
Automated Productivity

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.
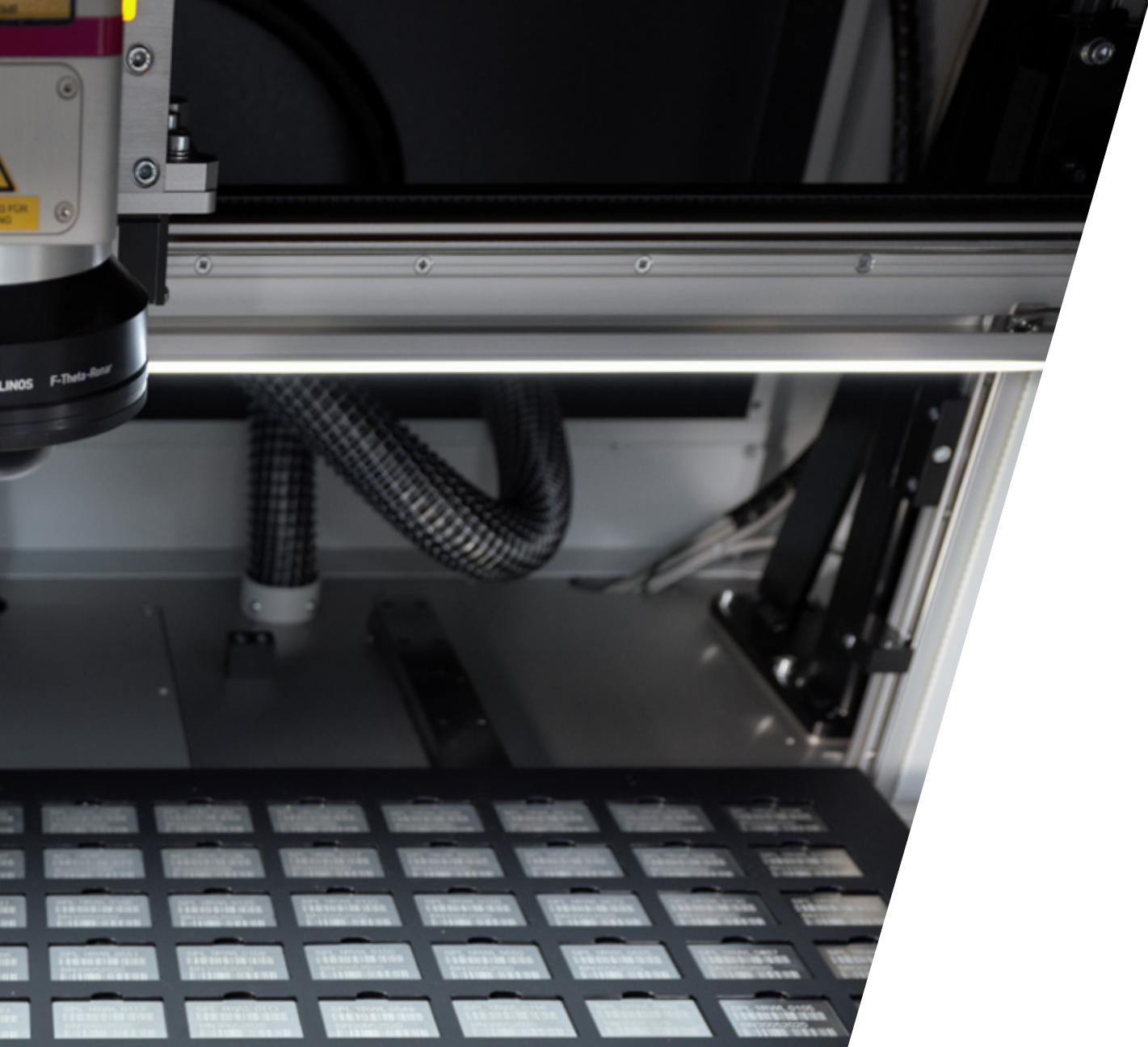
Reliable serial production thanks to secure user interfaces

In order to increase the efficiency and quality of individual work orders to a maximum, 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 considered after each further processing: 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 detail sharpness, high contrasts and deep engraving prove the demanding marking quality. For deep engraving there is a special deep engraving model 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 markings on anodised aluminium and - under defined conditions - colour markings on stainless steel as well as precise metal engravings on 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? Serialnumbers? 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

You want to mark more efficient? 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 – just choose a ready to use pre-defined or your own parameter setting from the material database. With lots of parameters for different laser power and different lenses.

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 a fail save 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.
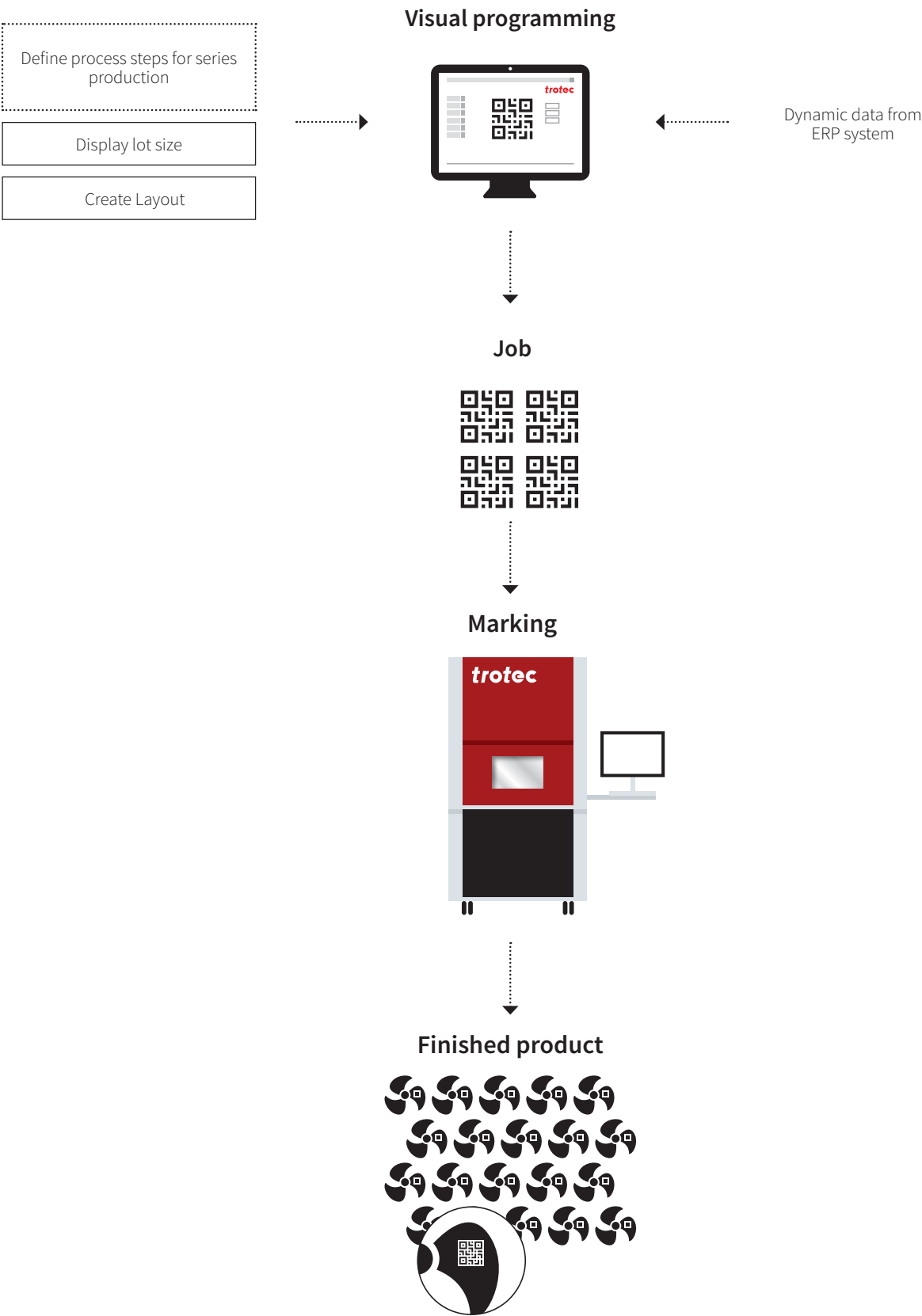
User screens
Create custom user screens from templates that are already connected to your program.

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

Software with 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.

Visual programming

Define process steps for series production

Display lot size

Create Layout

Dynamic data from ERP system

Job

Marking

trotec

Finished product

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 of SpeedMarker 700, 1300, 1350 and 1600 with DS (dynamic shifter)
- for 20 W marking and 100 W engraving MOPA Laser sources
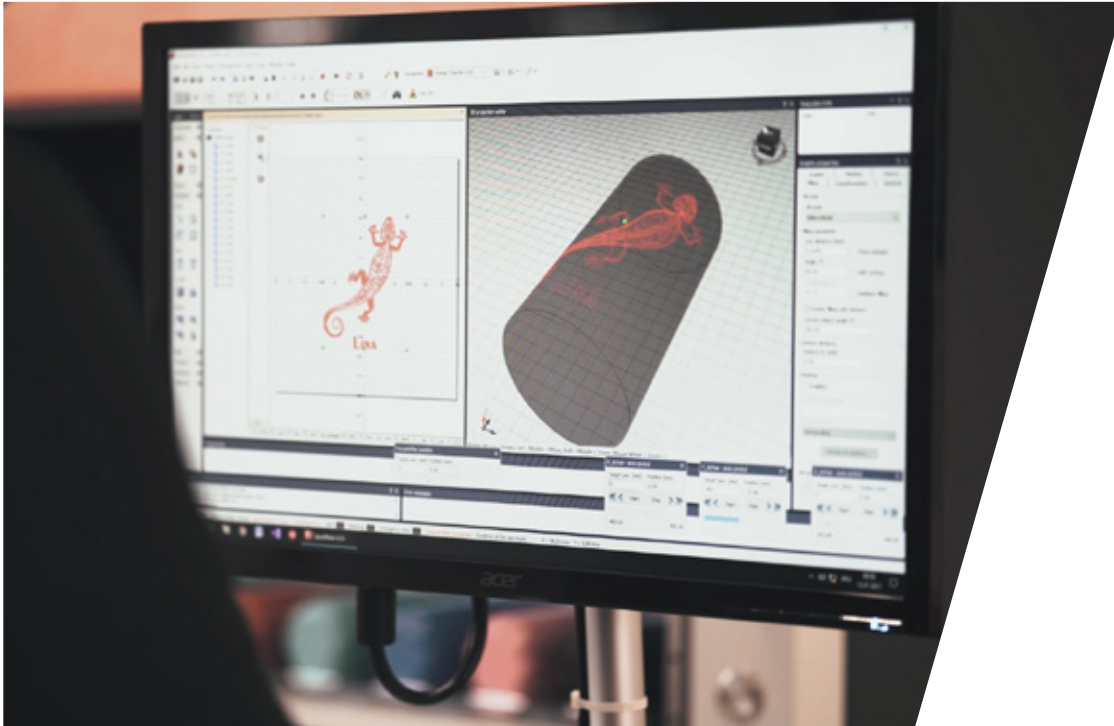
Marking on 3D objects like:

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

Instant Productivity

Avoidance of rejects

A special highlight of the SpeedMarker series is the border marking function to project the surface to be marked or even the contour onto 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 optimization with Focus Shifter

The Focus Shifter as new optional equipment of all machines of the SpeedMarker series 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 pool of predefined materials and the associated parameters for laser marking. This allows to produce a high quality laser marking in a short time without many 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 high industrial standards. The large number of laser sources enables precise marking on different surfaces.
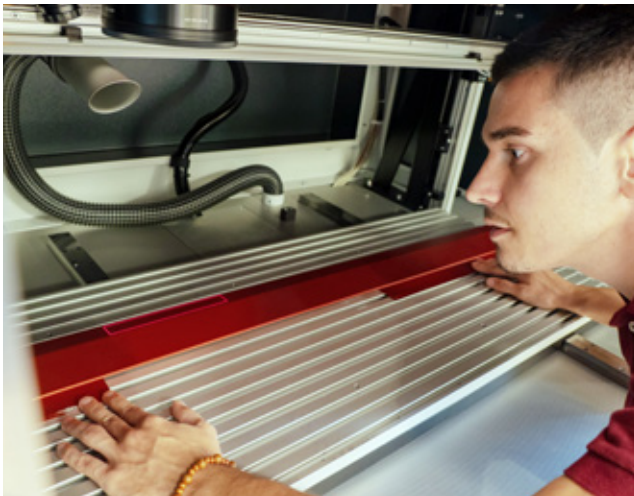
Laser and machine safety as top priority

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 lifting doors lead to a higher throughput. The lighting and window concept make it easier to monitor the processes.

TroCare

The warranty period of 2 years and the optional TroCare package ensure that you can produce 24/7 and reduce the risk of failure of your production to a minimum.
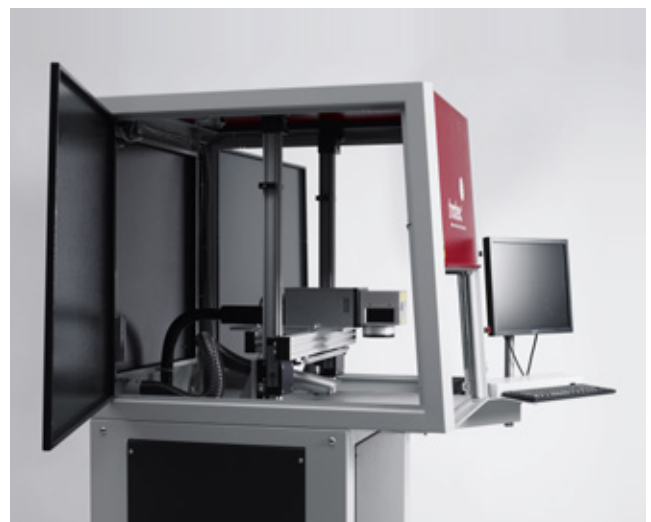
CO$_2$ for Processing of Organic Materials

Efficient marking of medium to large batches

The CO_2 lasers of the SpeedMarker series guarantee a fast processing time of markings on 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 in use 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 read in 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 are not 100% plane on the surface.
The SpeedMarker with CO2 laser source is available in the versions SpeedMarker 700 as workstation of laser class 2 and SpeedMarker 50 for flexible use of laser class 4.
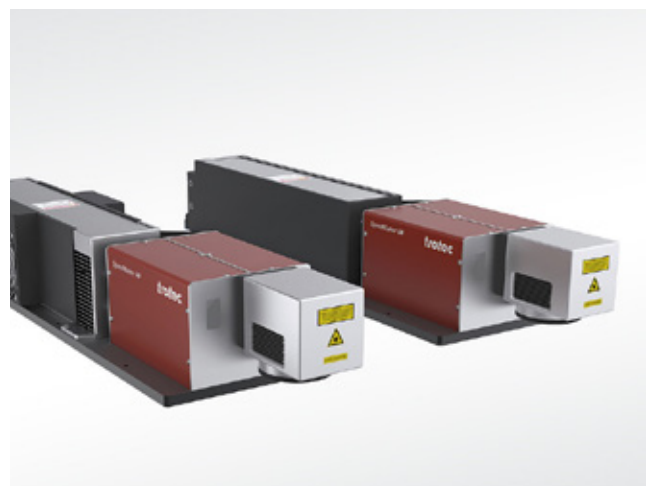
Better Environments with Atmos Exhaust Systems

Clean

The efficient and thorough filtration of dust, gas and odors 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 maximized. 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 model series. As the only laser manufacturer, we 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 odors 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 odor-intensive applications

Atmos Nano

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

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.
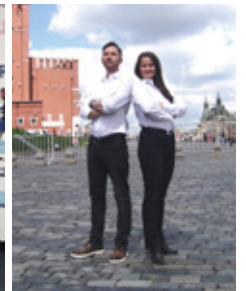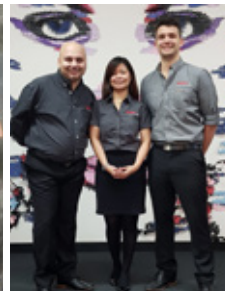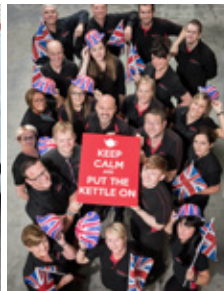
Trotec Worldwide!

Trotec is a leading international manufacturer of laser machines. The company's extensive line of first-class laser engravers, cutters and markers, its vast portfolio of engraving materials coupled with its unrivaled service, have made Trotec the technology leader in the industry.

Textfeld optional

Trotec was formed in 1997 from a research branch of Trodat – the world's largest manufacturer of rubber stamps – and since then, Trotec has been setting new standards in the field of laser technology. With a clear focus on the needs of its customers Trotec strictly aligns itself to make the laser users' work simpler, faster and more profitable.

The field staff is qualified and continuously trained within the in-house Academy. Trotec has 17 sales subsidiaries worldwide. In 2019, the turnover of the Upper Austrian laser manufacturer exceeded EUR 140 million. Trotec's machines are currently in use in over 90 countries around the globe.

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]	427 mm	687 mm
Max. Workpiece height with F = 200[4]		
Max. Workpiece height with F = 250		
Max. Workpiece height with F = 254	277 mm	537 mm
Overall dimensions (W x D x H)	1600 x 1030 x 1790 mm	1300 x 1327 x 2040 mm
Max. marking speed	6 m/s, 800 cps[5]	6 m/s, 800 cps[5]
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 fiber	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]		
TroCare	○	○
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 = 1604, F = 254, F = 330, F = 420	F = 100, F = 1604, F = 254, F = 330, F = 420
Compatible exhaust systems	Atmos Nano Atmos Mono HEPA Atmos Duo Plus HEPA	Atmos Nano Atmos Mono HEPA Atmos Duo Plus HEPA

● 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
5 1 mm single line with F = 160 mm
6 1 mm single line with F = 200 mm

SpeedMarker 1300

SpeedMarker 700
Fiber

SpeedMarker 1300	SpeedMarker 700	
1000 x 450 mm	580 x 495 mm	Maximum marking area[1]
453 mm	469 mm	Max. Workpiece height with F = 160[4]
		Max. Workpiece height with F = 200[4]
		Max. Workpiece height with F = 250
303 mm	319 mm	Max. Workpiece height with F = 254
1300 x 1030 x 1800 mm	780 x 981 x 1802 mm	Overall dimensions (W x D x H)
6m/sec., 800 cps[5]	6m/sec., 800 cps[5]	Max. marking speed
12 m/s with F = 160 mm	12 m/s. with F = 160 mm	Max. positioning speed
400 kg	260 kg	Weight
50 kg	50 kg, with y-axis 30 kg	Max. loading
		Laser power
20, 30, 50 W	20, 30, 50 W	Laser power fiber
20, 100 W	20, 100 W	Laser power MOPA
		Laser power CO_2
2	2	Laser class
●	●	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]
○	○	TroCare
●	●	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)
F = 100, F = 1604, F = 254, F = 330, F = 420	F = 100, F = 1604, F = 254, F = 330, F = 420	**Lenses**
Atmos Nano Atmos Mono HEPA Atmos Duo Plus HEPA	Atmos Nano Atmos Mono HEPA Atmos Duo Plus HEPA	**Compatible exhaust systems**

SpeedMarker Portfolio Overview

	SpeedMarker 700RT (Rotary Table)	SpeedMarker 700 CO$_2$
Maximum marking area[1]	310 x 310 mm	1000 x 500 mm
Max. Workpiece height with F = 160[4]	195 mm	
Max. Workpiece height with F = 200[4]		379 mm
Max. Workpiece height with F = 250		330 mm
Max. Workpiece height with F = 254	195 mm	
Overall dimensions (W x D x H)	780 x 1144 x 1804 mm	780 x 1188 x 1802 mm
Max. marking speed	6 m/s, 800 cps[5]	450 cps[6]
Max. positioning speed	12 m/s with F = 160 mm	7m/s with F = 200 mm
Weight	300 kg	260 kg
Max. loading	20 kg	50 k
Laser power		
Laser power fiber	20, 30, 50 W	
Laser power MOPA	20 W	
Laser power CO$_2$		30, 45 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]		
TroCare	○	○
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 = 1604, F = 254, F = 330, F = 420	F = 100, F = 1604, F = 254
Compatible exhaust systems	Atmos Nano Atmos Mono HEPA Atmos Duo Plus HEPA	Atmos Mono Atmos Duo Atmos Pre–Filter VA 5

● 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
5 1 mm single line with F = 160 mm
6 1 mm single line with F = 200 mm

SpeedMarker 300	SpeedMarker 50 Fiber	
190 x 190 mm	310 x 310 mm	Maximum marking area[1]
171 mm		Max. Workpiece height with F = 160[4]
		Max. Workpiece height with F = 200[4]
		Max. Workpiece height with F = 250
22 mm		Max. Workpiece height with F = 254
572 x 851 x 653 mm	375 x 800 x 666 mmm	Overall dimensions (W x D x H)
6 m/s, 800 cps[5]	6 m/s, 800 cps[5]	Max. marking speed
12 m/s with F = 160 mm	12 m/s with F = 160 mm	Max. positioning speed
77 kg	62 kg	Weight
25 kg		Max. loading
		Laser power
20, 30, 50 W	20, 30, 50 W	Laser power fiber
20, 100 W	20, 100 W	Laser power MOPA
		Laser power CO_2
2	2	Laser class
●	●	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]
○	○	TroCare
●	●	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)
F = 100, F = 1604, F = 254, F = 330, F = 420	F = 100, F = 150, F = 2004, F = 250, F = 300, F = 400	**Lenses**
Atmos Nano Atmos Mono HEPA Atmos Duo Plus HEPA	Atmos Nano Atmos Mono HEPA Atmos Duo Plus HEPA	**Compatible exhaust systems**

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