



***trotec***

## SP Series

The Standard in Laser Finishing for  
Signage and Display

**trotec**

# The Standard in Laser Finishing for Signage and Display

The SP series laser cutters provide a complete solution for processing large format materials. Whether for display production and shop fitting, print service providers, POP/POS applications or technical textiles, our laser systems are developed for 24/7 operation and let you work quickly, productively and reliably.



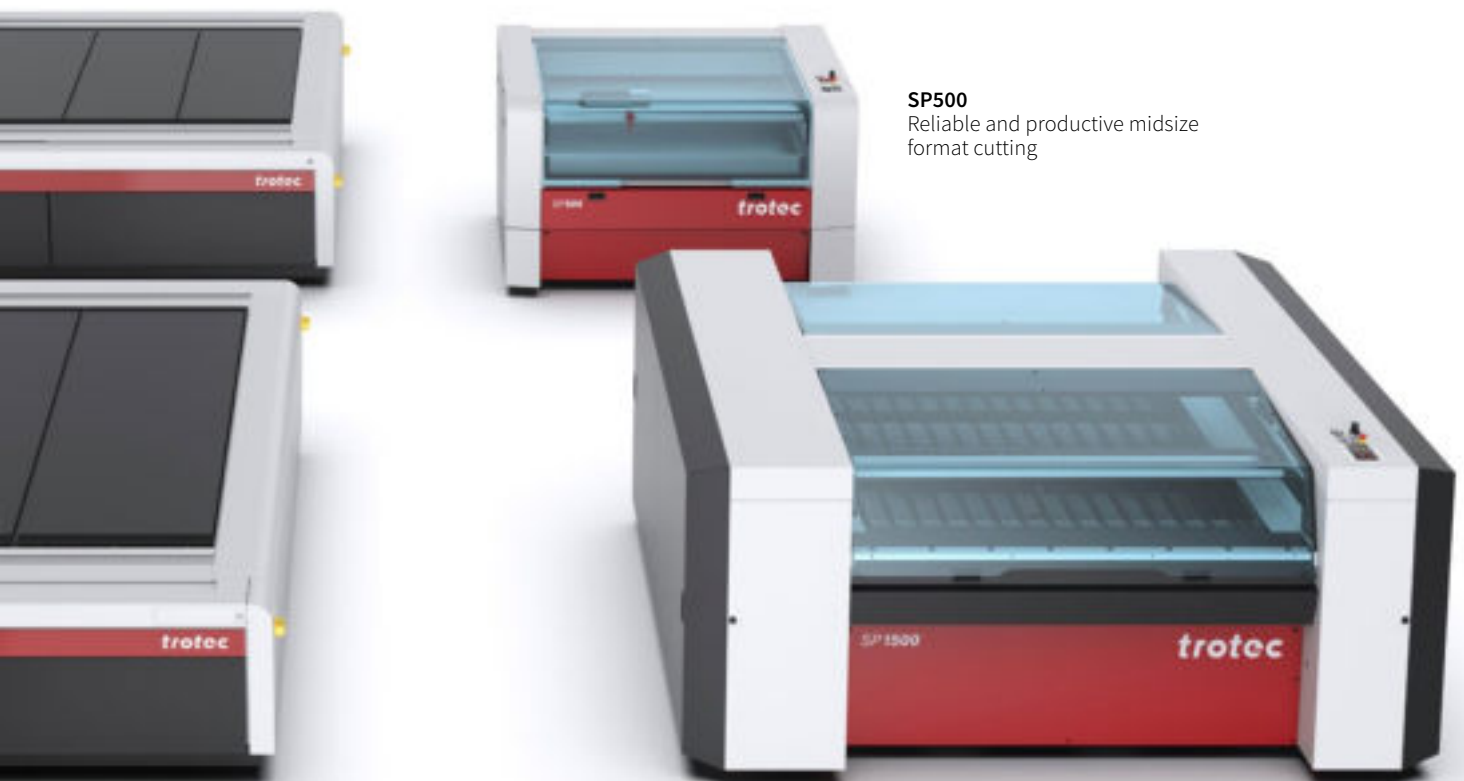
**SP2000**  
Makes your production  
more efficient



**SP3000**  
The standard in large  
format laser cutting

As a technology leader with a worldwide sales network, Trotec develops and produces first-class laser system solutions to make our customers more profitable. This also applies to the SP series laser cutters for fast and precise processing of large format materials. In addition to the highest cutting performance on the entire processing area, our industry-leading SP Series laser cutters offer a number of productivity-boosting advantages, including four-sided access, loading and unloading during material processing, and tandem assist, and integration into your data workflow thanks to RIP and CAD compatibility.

The product line is 100% developed and manufactured in Austria, and used by customers in more than 90 different countries to boost productivity. In addition to our industry-leading laser systems, we provide our customers with a number of resources to help maximize a laser investment, including: The Trotec Academy offers training courses on materials and technology as well as best practices and optimized usage of the technology. Exhaust systems, laser and engraving material as well as service products complete the product portfolio.



**SP500**  
Reliable and productive midsize  
format cutting

**SP1500**  
Closed machine for cutting materials  
that tend to generate high dust levels



## Laser Cutting in Display and Shop Fitting

### Produce perfectly polished acrylic edges in a single process step

Acrylic is a popular material in display and store design. Here, the laser cutter automatically produces a flame-polished cutting edge. Milling, on the other hand, often requires time-consuming and costly manual polishing. Manual polishing is a time-consuming step, and it also involves the risk that you may damage or destroy the workpiece in the process. Laser cutting reduces the costs for acrylic processing up to 88% compared to milling. The use of a laser cutter in display and store construction enables new products and thus additional business: You can efficiently create displays with fine details and small radii in high quality with the laser compared to other technologies. The engraving function integrated in Trotec systems opens up additional design possibilities.



Printed displays in unusual shapes



Produce partition walls on counters at low cost



Flame polished cut edges for cosmetic displays



Contour cut of printed signs



Laser cut letters for indoor or outdoor advertising



Adding value with print & cut applications

## More productivity, added value, lower costs

Ad designers and print shops need a reliable cutting process and consistent product quality. With the universally applicable „laser“ tool, the most filigree designs can be created from different materials such as plastic, wood or printed acrylic. Print service providers have clearly set themselves apart from the competition by implementing creative design ideas. Productivity is a plus: Compared to milling, laser cutting of acrylic eliminates time-consuming process steps and cutting speeds are significantly higher - resulting in faster throughput times even for individual pieces. Further advantages of laser technology are lowest maintenance costs, reduced scrap thanks to dense nesting and no tool wear.



Laser Technology in Signage

## Laser Processing in Furniture Construction and Interior Design

### Precisely fitting inlays and unlimited design possibilities

Innovative ideas and flexible production are what count in furniture construction and interior design. With laser technology - thanks to the unlimited design possibilities - a multitude of design concepts can be realized. The laser convinces with precisely fitting inlay work, finest geometries as well as the fine structuring of wood. The combination of laser engraving and laser cutting, for example, turns high-quality wall panels into pieces of artwork. Acoustic panels made of textile and wood can be individually engraved with fine structures. In acrylic processing with laser cutting machines, the shiny cut edge is a highlight; when cutting textiles, the cut edge is „sealed“. Compared to other technologies, there is significantly less dust and dirt.



Screens: flexible production and unlimited design possibilities



Refinement of surfaces through individual engravings



Finest geometries for wall panels



Permanently consistent cutting results



Highest quality display protection films



Kiss cut applications fast and reliable

## Reliable cutting process with free design of the contour

For technical plastics, whether films or sheet material, laser technology convinces with permanently consistent cutting results. The non-contact manufacturing process eliminates tool wear - while maintaining the high quality of the end products. The digital machining process allows innovative shapes and high flexibility - even for small batches. The user is not limited by the tool when selecting the contour, as is the case with knives or milling machines. The small cutting gap has a big effect: The material can be used optimally with little waste, so the material costs are lower compared to other technologies. You can produce self-adhesive foils or customized adhesive solutions quickly and reliably with kiss cut: The carrier foil can be removed without any problems, and the foil does not stick to the tool.

## Laser Cutting of Engineering Plastics



# Endless Application Possibilities

The SP series are CO<sub>2</sub> laser cutting machines for large format materials. As highly efficient flatbed systems, they convince in the most demanding cutting applications with the most diverse materials.

From acrylic and paper to plastic and wood to textiles and many other materials, the flexibility of our laser cutters makes you flexible in your possibilities.



Produce POS displays to fit



Print&Cut displays in unusual shapes



Flame polished cut edges without post processing for acrylic displays



Interior signage laser cut and engraved



Acrylic illuminated letters



Adding value with Print & Cut applications





Produce partition walls at low cost



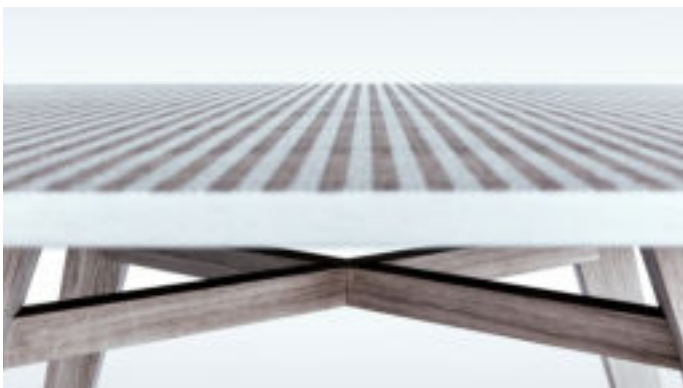
Crystal clear cut edges with up to 25 mm acrylic



Finishing of technical film applications



Cutting of technical textiles



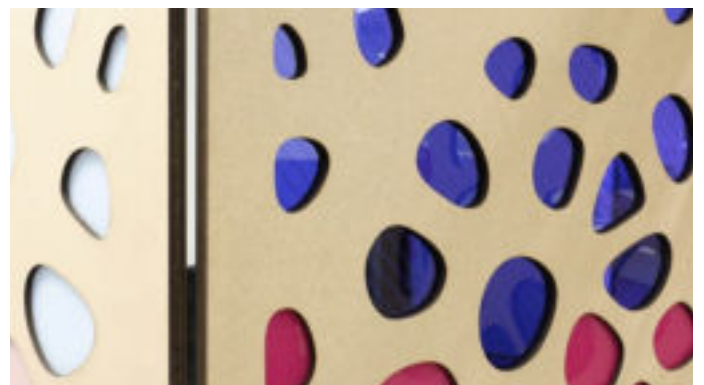
Filigree patterns on surfaces or furniture



Detailed architectural models made of a wide variety of materials



Cut polyester cover for light boxes



Individual laser cutting for sample production

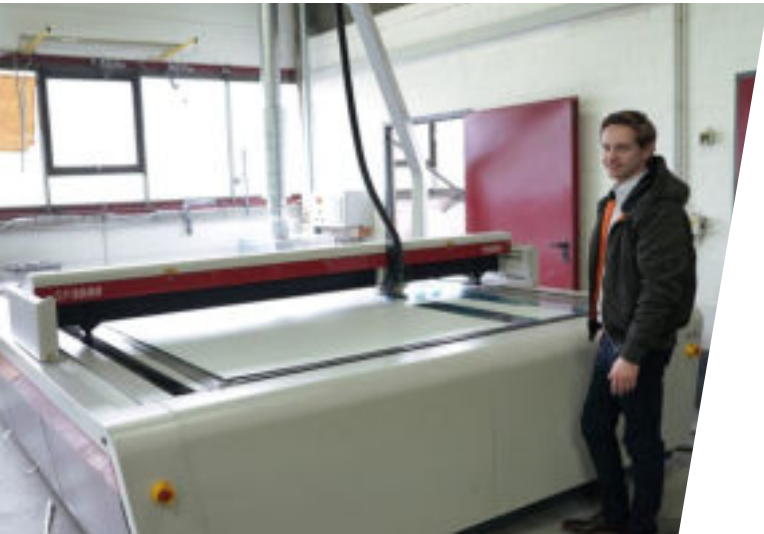
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# Customer Statements

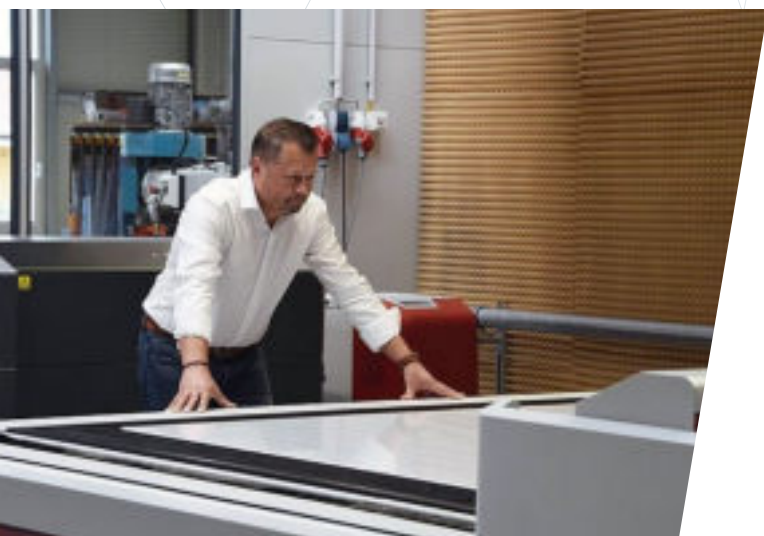
Mister Druck provides on-demand digital printing on large-format plate and roll materials of various materials to resellers and chain stores.



„Compared to our router, the SP3000 laser cutter enabled us to achieve an enormous increase in turnover, as it was only through the laser that we were able to accept the offered acrylic product order. We were able to increase the acrylic production volume from 10m<sup>2</sup> per week to currently 1,200 to 1,500 m<sup>2</sup> per week. In addition to this increase, we were able to reduce the reject rate from 20% to 1%. The required product quality without dust inclusions and the required production speed can currently only be achieved with the laser.“

**Rune Slembrouck – CEO Mister Druck GmbH (Germany)**

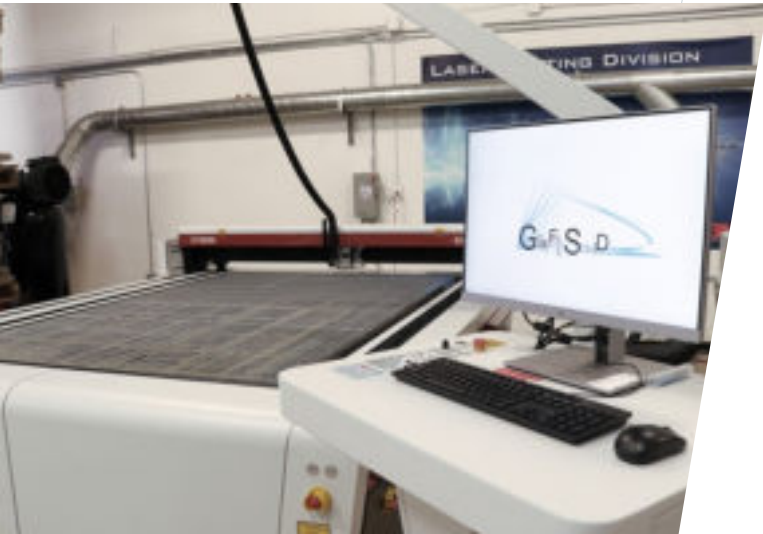
Werner & Plank - the German market leader in the field of advertising technology refines large-scale illuminated advertising installations with the Trotec SP3000.



„Our customer inquiries became more and more specific and we were therefore looking for a partner who could serve us here on a long-term basis. With the Trotec SP3000, all applications that are required in lighting technology can be covered. Whether large letters or small acrylic inlays can be cut very precisely with the laser cutter. Moreover we use the SP3000 laser cutter for sign engraving. In addition, the SP3000 allows us to nest geometries very efficiently with regard to materials and thus produce parts economically. We are enthusiastic about the precision of the Trotec laser cutter and especially appreciate the good service and the high-quality mechanics.“

**Roland Plank - Managing Director,  
Werner + Plank Licht & Metalltechnik GmbH (Germany)**

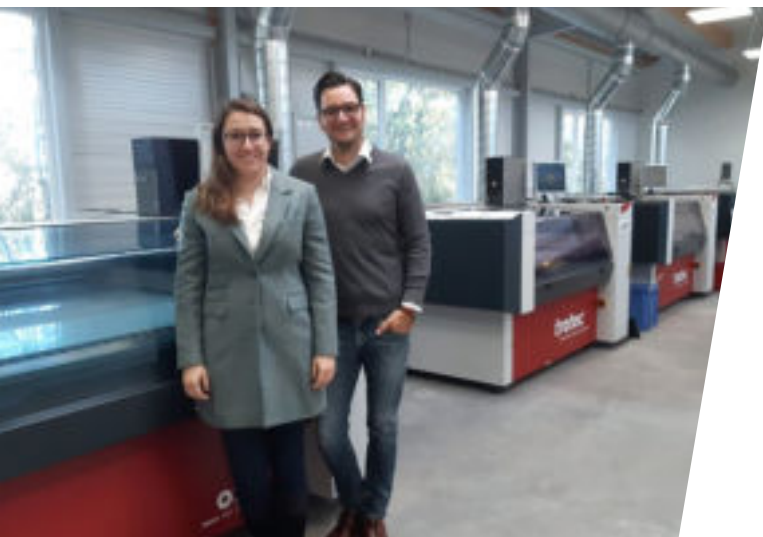
Graffiti Shield provides anti-graffiti and surface protection films. They currently work with two SP2000 laser machines to create customized solutions.



„Before purchasing a Trotec laser system, we manufactured anti-graffiti films using other technologies such as knife cutters and CNC machines. For a time, those technologies were producing adequate quality, but were not able to achieve OEM quality standards that some of our clients required. Reaching out to Trotec we found that the SP2000 was able to increase cut quality to meet OEM standards, accommodate anti-graffiti shield sheet sizes for large transit windows AND operate as a safety class 2 laser. No other laser manufacturer could present all of these features in a single-source solution. Since purchasing the laser, we have been able to accept a wider range of custom jobs because of the machine’s size, precision and speed. Because of this influx of custom jobs, we bought a second SP2000 shortly after and plan to expand with the addition of a SP3000 in the near future. Trotec really put us in a new arena.“

**Jeff Schuch, Mike Schuch & Jeff Green -  
Director of Manufacturing & R&D, President,  
CEO of Graffiti Shield (US)**

Eremit Display manufactures a wide range of acrylic products like displays, signage, promotional items, trophies, shop fitting and much more using modern machinery including six Trotec laser systems.



„Due to rapid changes in the market and demanding customer requirements, series production with our existing machines was not profitable. A lot of manual work and an elaborate reworking of the produced parts were necessary in production. Therefore we were looking for a more profitable manufacturing solution. The Trotec laser systems enable efficient and optimized series production with polished cutting edges. In addition, we attach great importance to quality and good service for all our machines. This is why we have chosen Trotec as our long-term partner.“

**Ing. Bernhard Eremit - Managing Director,  
Alfred Eremit Gesellschaft m. b. H (Austria)**

# Impressive Material Diversity

With the SP series laser machines, you can cut or engrave the widest possible range of materials. The palette ranges from acrylic, plastic or wood, cardboard, MDF, textiles to foils. Discover the possibilities.



Plastics	Cutting	Engraving
Acrylic (PMMA)	●	●
Acrylonitrile butadiene styrene copolymer (ABS)	●	●
Engraving plastics (laminates)	●	●
Polyamide (PA)	●	●
Polybutylenterephthalat (PBT)	●	●
Polycarbonate (PC)	●	●
Polyethylene (PE)	●	●
Polyester (PES)	●	●
Polyethylene terephthalate (PET)	●	●
Polyimide (PI)	●	●
Polyoxymethylene (POM) e.g. Delrin®	●	●
Polypropylene (PP)	●	●
Polyphenylene sulfide (PPS)	●	●
Polystyrene (PS)	●	●
Polyurethane (PUR) foam	●	●
Foam (PVC free)	●	●
PETG (modified PET)	●	
SAN	●	
<b>Textiles</b>		
Polyester (PES)	●	
Felt	●	●
Microfiber	●	
Spacer fabrics	●	
Leather	●	●
Artificial leather	●	●
Natural fiber (e.g. cotton, linnen)	●	●
Wool	●	
Silk	●	
Aramid	●	
<b>Miscellaneous</b>		
Wood	●	●
Cardboard	●	●
Paper	●	●
Cork	●	●
Rubber	●	●

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

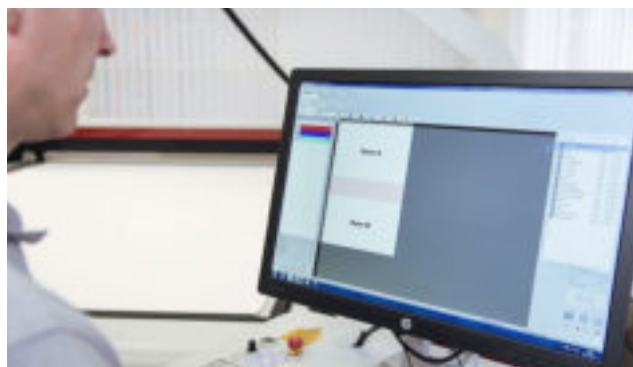
Important: Be wary of materials specified as “flame retardant”. This property is often achieved through bromine, which is then released during processing.



The Standard in Laser  
Finishing in Signage  
and Display

## Lowest cost per part. Fast and automated.

Trotec CO<sub>2</sub> laser cutters are designed for fast and precise processing of large format materials with the goal to minimize the overall costs per workpiece. Highest laser cutting speed and Tandem Assist ensure a productivity increase up to 40%. Due to standard based file and automation interfaces (RIP, PDF, DXF) you can seamlessly integrate the laser cutter into your workflow.

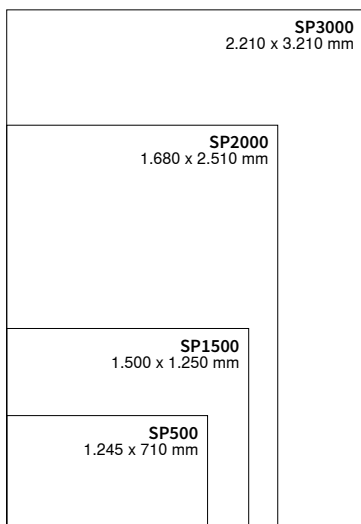


## Perfect operation. Simple and integrated.

The four sides access allows fast and ergonomic loading and unloading, even during processing. The V-shaped design, the optimized height of the machine and the compactness make it easier to reach the finished work pieces. The Digital Table Exhaust enables you to activate the exhaust system only in specific zones of the work area depending on the size of your workpiece. Quick adaptations to different requirements for perfect cutting results can be made with the Multifunctional Table Concept.

## Reliable production. Low-maintenance and safe.

The motion system, the controls electronics, and the processing head, as well as the CeramiCore® laser source provide the highest quality and offer the best performance. With Trotec InPack Technology™, all sensitive laser cutting system components, such as lenses, mirrors or motors, are protected against dust. The Trotec safety concept ensures optimum protection of the operator during the operation in laser class 2 mode, while customized service packages guarantee 24/7 operation.



## Optimized working area

All platforms are optimized for standard material sizes. Save time and money on cutting, use more standard blanks per table, and use the entire working area.

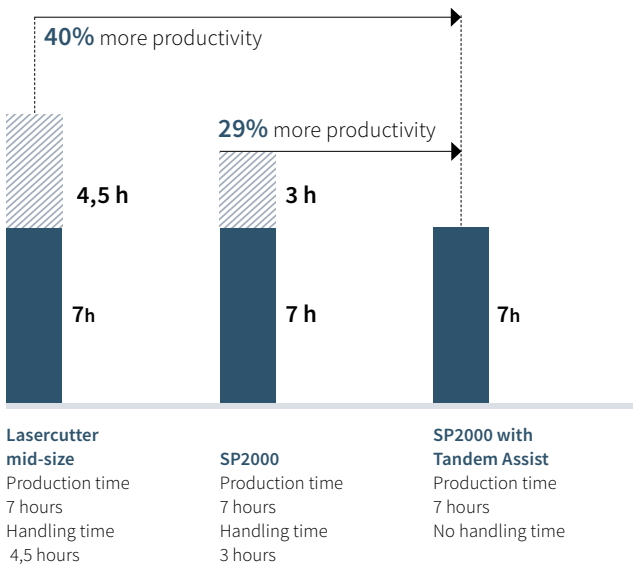
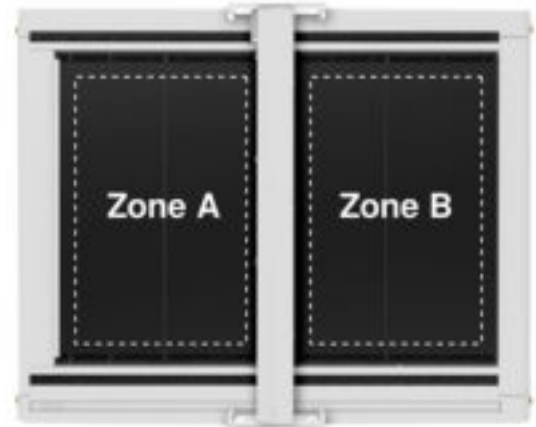
Lowest Cost Per Part.  
Fast and Automated.





## Productivity increase of up to 40% with Tandem Assist

The unique feature "Tandem Assist" allows non-stop laser cutting. With this function, the work area can be virtually split into two zones. While the laser cutter in zone A is processing the material, the finished parts can be removed in zone B and the work area can be reloaded. It minimizes idle times and significantly increases productivity.



Comparing the production time of 500 temporary signs when using a midsize flatbed laser (work area 1000 x 700 mm) and Trotec's SP2000 (work area 1680 x 2510 mm) shows some productivity increase. The real productivity advantage of 29% or 40% respectively can be achieved when working with the Tandem Assist.

Calculation example: Laser cut signs – wall tattoos out of cardboard. 6mm cardboard, quantity 500.

## Fast and precise

Trotec SP laser cutters are designed for fast and precise processing of large-format materials. Highest laser cutting speed, the four-side access and Tandem Assist ensure maximum productivity and minimize the overall costs per workpiece.

In addition, the SP laser cutters have the capability for laser engraving integrated. Engrave logos, texts or patterns on your workpieces without having the need for an additional machine or complex workflows.



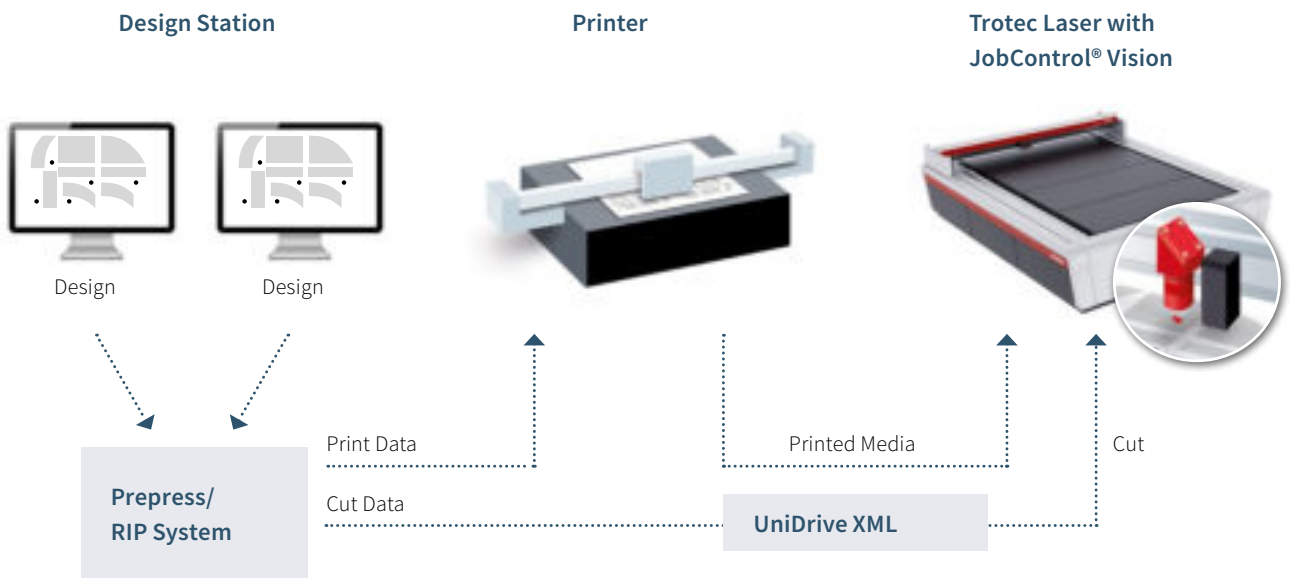
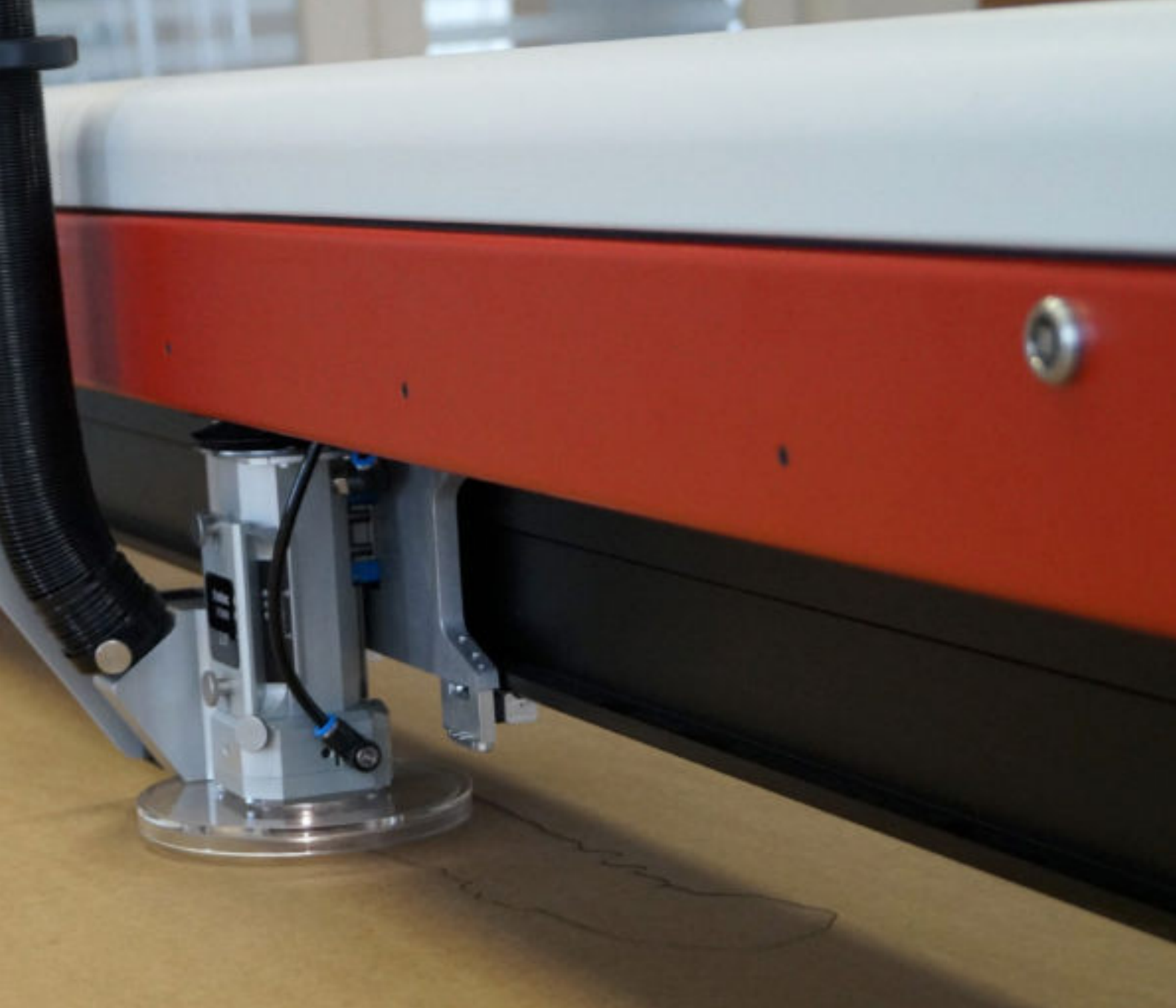


# Lowest Cost Per Part. Fast and Automated.

## Seamless integration into your data workflow

Standard based file and automation interfaces make it possible to seamlessly integrate a Trotec laser cutter into your workflow. Thanks to the fully automated PDF and DXF interface Trotec UniDrive, data can be sent to the laser cutter from prepress or RIP systems, or work can be prepared via monitored folders, called “Hot Folders.” Time-intensive handling of the cutting data is not required.

Another highlight: For production planning or exact quotations, the processing times can be very precisely calculated in advance. The pre-calculation of the cutting and engraving times allows efficient production planning for maximum utilization of the laser cutter and can be used for precise quotations.



# Perfect Operation. Simple and Integrated.



## Accessibility of the working area from all four sides

The working area of the SP3000 and SP2000 laser cutter is designed for large-format materials and high-volume production, and can be easily accessed from all four sides. This allows fast and ergonomic loading and unloading, even during processing.

In addition, the four-sided accessibility minimizes walking distances for the operator and ensures an optimized material flow. The unsurpassed ratio of processing area to total area means optimal use of space, and is well worth the cost, especially with several laser cutters.



## Maximum accessibility

The V-shaped design, the compactness and the optimized height of the working table highlight the ergonomics of the SP series, making it easier to reach the finished work pieces. This especially counts for smaller workpieces. The laser cutter SP3000 is leading in the industry.



## Flexible integration

Trotec is your reliable partner from the beginning. In order to find the best way how to install the laser cutter in your facility our experts develop together with you a corresponding concept. Even the large format laser cutters can be delivered in compact packages and fit through narrow doors or in upper level floors. The sophisticated design of the machine in combination with the common assessment of your facility by our experts saves you costs for installation and space and allows a smooth and quick installation process.

## Digital table exhaust

Highest cutting quality and reliable production process thanks to the digital table extraction system. With the SP2000 and SP3000 laser cutters, it is possible to activate the exhaust system only in certain zones of the working area. Thanks to the segmented exhaust system, the working area can be divided into four zones on the SP3000 and into two zones on the SP2000. The segments can be activated individually by pressing a button on the control panel. If the material to be cut cover one segment only, this segment needs to be activated independently. For an optimum exhaust manual covering of the entire table surface is no longer necessary.



# Perfect Operation. Simple and Integrated.

The multifunctional table concept allows you to quickly change tables according to your requirements. This is one of the numerous highlights of the SP series.

## Slat cutting table

The cutting table with aluminum slats is mainly used for cutting thicker materials (from 6 mm thickness) and for parts wider than 100 mm. Acrylics can be cut with no reflections by exchanging the aluminum with acrylic slats. One can optimize the number of supporting points by placing slats individually, depending on the job.



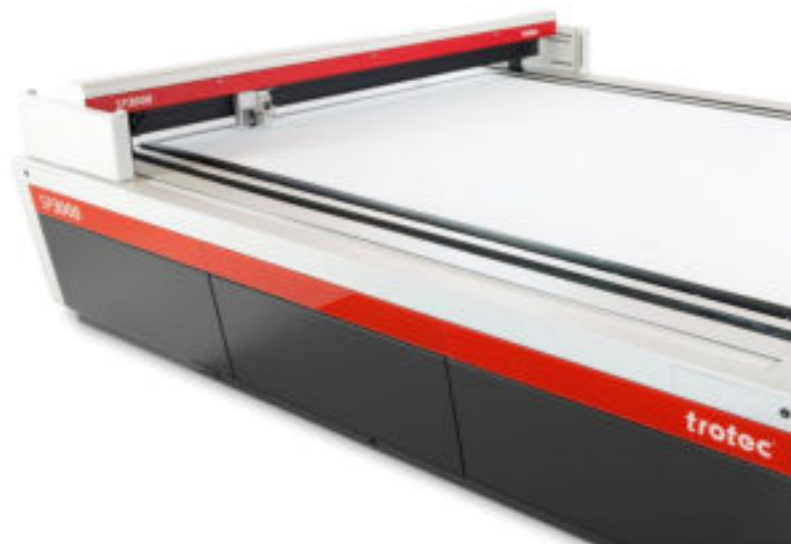
## Aluminum cutting grid table

This robust, universal cutting table is characterized by an extremely stable grid and a long lifetime. It is particularly suitable for cutting tasks with parts smaller than 100 mm, as these remain in a flat position after the cut. Compared to the slat cutting table the aluminum cutting grid table has more supporting points.



### Acrylic cutting grid tabletop

The universal cutting tabletop is ideal for the reflection-free cutting of thin acrylics with a thickness up to 8 mm. Like with the aluminum cutting grid table parts smaller than 100 mm remain in a flat position after the cut.



### Honeycomb cutting table

This processing table is especially suitable for applications that require minimal back reflections and optimum flatness of the material, like for example cutting films.





## Low Maintenance. Reliable and Safe.



### Protecting sensitive laser components from dust

With InPack Technology™, we were the first manufacturer in the world to design a self-contained motion system design and put it into practice. It perfectly protects both lens and mirrors, electronics, motors and axes from dust and other disruptive factors. All optical elements (lenses and mirrors) are air flushed to avoid dust build-up.

The advantages:

- Ensures trouble-free work over an extremely long period of time
- Exceptionally low maintenance and cleaning costs, thus low operating costs even with very intensive use
- Even higher productivity





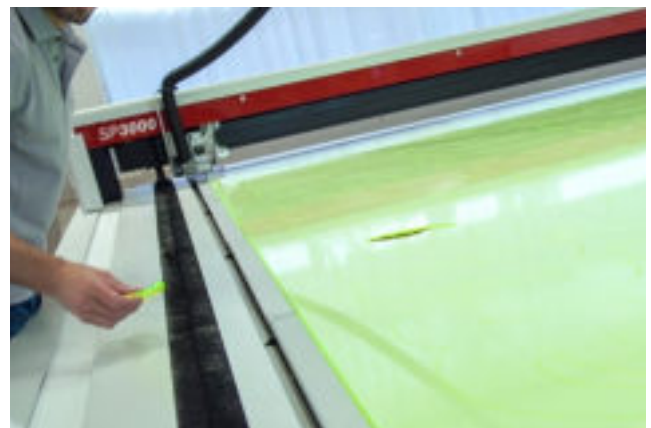
## Safe operation 24/7

The systems of the SP series are certified as laser class 2 for normal operation. The laser beam path is completely encapsulated, and exits the working head equipped with an active laser deflector shield. Therefore, no structural measures with laser protection walls or special laser safety training for your staff are necessary.

## Free access while the machine is cutting

Maximum operator protection is a priority at Trotec. A moving light curtain system and safety bumpers integrated in the moving x-axes define a protection zone. As soon as the operator enters this protection zone, the machine is stopped immediately.

This means real safety for your staff, while having access to the complete working area at all times. A special highlight: If the protection zone is tripped and processing thus interrupted, the resume function allows seamless continuation of the cutting process later.





SP2000

# Low Maintenance. Reliable and Safe.

## Reliable laser source technology

Trotec laser systems are equipped with laser sources from the American OEM manufacturer Iradion. The patented CeramiCore® laser source technology impresses with its reliability, engraving quality and longevity. The resonator of the laser source is 100 percent ceramic. Ceramics lasers can be operated at much higher pressure, resulting in better and faster pulsability, which results in higher cutting speeds.





## Customized service packages

Trotec laser machines are known for their sturdy design. We use only high quality components and parts that ensure a long service life for our lasers. If you want to insure your laser machine beyond the standard warranty, we also offer you customized service packages through TroCare. TroCare offers fast response times, expanded spare parts service and even insurance against downtimes. Greater cost control and fewer worries can be yours by choosing a customized service package that exactly fits your needs and your laser machine.





# Usability By Design

JobControl® laser software

Simply intuitive. Work efficiently.

Our JobControl® software program was developed to be easy to use and highly efficient. It includes multiple performance-related features and intuitive user friendliness. Whether you are a beginner or an experienced user, Trotec JobControl® facilitates your daily work with the laser and supports you with perfect results.

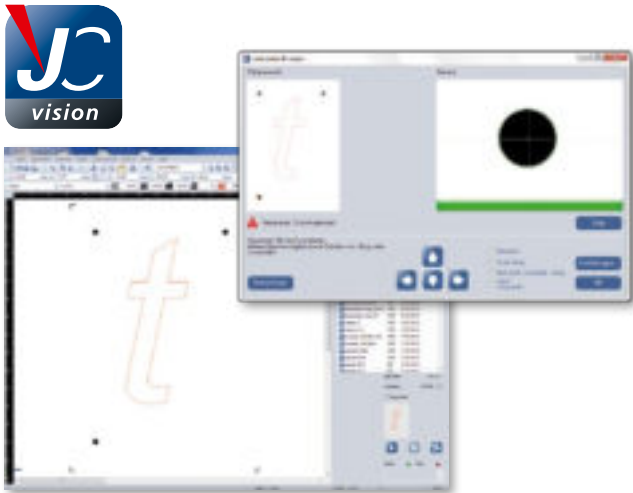
## As easy as printing

JobControl® software is a tool that allows every user to immediately control all laser functions thanks to its extremely easy operation. Our laser software allows fast and efficient working in familiar graphics or Windows® program environment, for example with Corel Draw®, Adobe Illustrator®, Photoshop®, AutoCAD®, InkScape®, etc. Similar to printing, the user simply sends the finished graphics to the laser via the special Trotec printer driver. At the touch of a button, the machine begins to engrave or cut, the inserted material with the stored settings, and you are done!

## As productive as you are

In addition to straightforward usability, JobControl® offers a variety of intelligent features that make your success even more likely. For example, bi-directional communication, the JobTime Calculator, markers, vector sorting, job preview and a number of others:

- The material database provides parameters for over 50 different materials to choose from. Any new materials can be added quickly and easily.
- Process types stored in the printer driver simplify everyday work by automatically optimizing graphically required processes.
- In addition, JobControl® can be further customized and adapted to your needs with advanced settings.



## JobControl® Vision

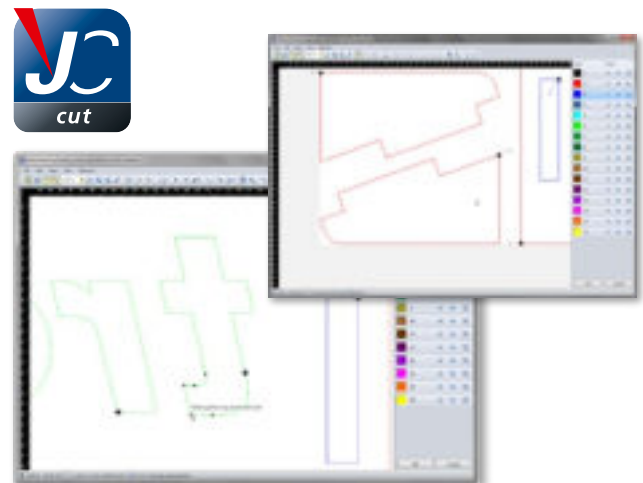
### Simple and precise Print & Cut workflows

Create amazing details and meet tightest tolerances with Trotec JobControl® Vision. The Vision module uses registration marks to determine the position and rotation of printed sheet material on the working area of the laser. The system detects print distortions and adjusts the cutting path dynamically to match the artwork. No matter if flexible or rigid materials. This speeds up your production and costly miscuts can be avoided. This guarantees a perfectly cut end product.

## JobControl® Cut

### JobControl® integrated optimization of basic cutting jobs

JobControl® Cut is a tailor-made, fully integrated solution in our Trotec laser software. It enables you to easily process and optimize cutting geometries without changing the original geometries in the graphical software again. Only in a few steps color orders are changed, cutting gaps automatically filled, start points defined, the fitting accuracy of components secured, lead-ins and lead-outs defined as well as the processing time optimized. All lead to a perfect cutting result.





Better Environments with  
Atmos Exhaust Systems

With the Atmos model series, Trotec is also setting new standards with regard to exhaust systems. As the only laser manufacturer, we produce exhaust systems 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 cutting and engraving quality.

### 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.



### Atmos Duo Plus

Stand-alone dual turbine design for double performance in demanding applications with medium to high dust generation. The plus of double activated carbon also makes it suitable for odour-intensive applications.

### 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.



### Atmos Pre-Filter

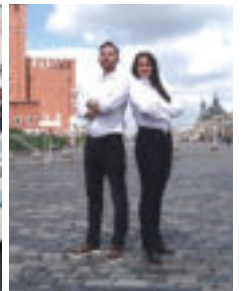
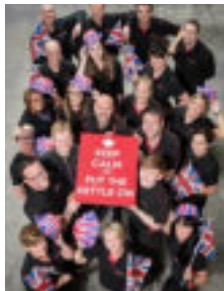
If very large quantities of dust are to be filtered, the use of a pre-filter system is recommended. This is installed between the laser unit and the extraction system. With the help of cleanable cartridges, the filters of the actual extraction system are optimally protected, whereby the filter service life can be increased many times over. Atmos pre-separators are available in 3 different versions:

- With manual cleaning
- With automatic cleaning
- With automatic cleaning and additive dosing



### Atmos PowerJet

This high performance exhaust system has been developed especially for laser dust to provide an economic and efficient separation system. The "All in One" - concept represents the perfect solution for challenging application areas. Dust filtration - odor reduction - turbine - combined into one device for a safe laser operation and a clean environment!





# 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.



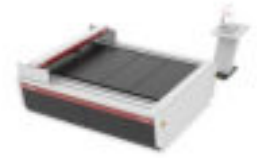
Trotec was formed in 1997 from a research branch of Trodat – the world's largest manufacturer of rubber stamps – and since then, Trotec has been setting new standards in the field of laser technology. With a clear focus on the needs of its customers Trotec strictly aligns itself to make the laser users'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

# SP Portfolio Overview



**SP3000**



**SP2000**

Working area (W x D)	2210 x 3210 mm	1680 x 2510 mm
Height <sup>1</sup> of workpiece	50 mm	50 mm
Loading area (W x D)	2500 x ∞ mm	1950 x ∞ mm
Overall dimensions (W x D x H)	3078 x 3914 x 1230 mm	2520 x 3214 x 1230 mm
Max. processing speed	1 m/s	1 m/s
Max. acceleration	10 m/s <sup>2</sup>	10 m/s <sup>2</sup>
Technology motion system	Brushless DC servo motors	Brushless DC servo motors
Laser power CO <sub>2</sub>	60 - 400 W	60 - 400 W
Laser class	2	2
Weight <sup>2</sup>	1600 kg	1400 kg
Power requirements	400 V 3 Ph., 50/60 Hz, 3x16 A	400 V 3 Ph., 50/60 Hz, 3x16 A

## Software

JobControl®	●	●
JobControl® Vision	○	○
JobControl® Cut	○	○

## Functions and Options

Four sides access	●	●
Tandem assist	○	○
Digital table exhaust	○	○
Pass-through		
Air-flushed optics	●	●
Travelling exhaust	○	○
Gas kit	●	●
Rotary attachment		
InPack Technology™	●	●
Harsh environment protection kit	●	●
OptiMotion™	●	●
Sonar Technology™	○	○
TroCare	○	○
2 years warranty	●	●

## Multifunctional table concept

Aluminum cutting grid table	○	○
Acrylic cutting grid table or tabletop	○	○
Aluminum slat cutting table	○	○
Acrylic slat cutting table	○	○
Vacuum table		
Honeycomb cutting table	○	○

## Lenses

2.0 in CO <sub>2</sub>		
2.5 in CO <sub>2</sub>	●	●
2,5 in CO <sub>2</sub> clearance lens		
5.0 in CO <sub>2</sub>	○	○

## Compatible exhaust systems

	Vent Set 3000 Atmos PowerJet	Vent Set 3000 Atmos PowerJet
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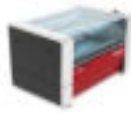
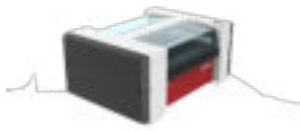
● Standard

○ Optional

**1** Based on standard lens

**2** Depending on laser power

**3** Laser class 4 with pass-through



## SP1500

## SP500

1500 x 1250 mm	1245 x 710 mm	Working area (W x D)
53 mm	112 mm	Height <sup>1</sup> of workpiece
1700 x 1600 mm	1420 x 820 mm	Loading area (W x D)
2830 x 2040 x 1293 mm	1940 x 1240 x 1140 mm	Overall dimensions (W x D x H)
1.65 m/s	2.54 m/s	Max. processing speed
9.55 m/s <sup>2</sup>	19 m/s <sup>2</sup>	Max. acceleration
Brushless DC servo motors	Brushless DC servo motors	Technology motion system
100 - 400 W	60 - 200 W	Laser power CO <sub>2</sub>
2	2 <sup>3</sup>	Laser class
1300 kg	520 kg	Weight <sup>2</sup>
208 - 230 V, 50/60 Hz, 20 A 380-400 V 3 Ph., 50/60 Hz, 3x20 A 380-400 V 3 Ph., 50/60 Hz, 3x25 A	208 - 230 V, 50/60 Hz, 16 A 380-400 V 3 Ph., 50/60 Hz, 3x16 A 380-400 V 3 Ph., 50/60 Hz, 3x20 A	Power requirements

●	●	JobControl®
○	○	JobControl® Vision
○	○	JobControl® Cut

### Software

### Functions and Options

		Four sides access
		Tandem assist
		Digital table exhaust
	○	Pass-through
●	●	Air-flushed optics
○	○	Travelling exhaust
○	○	Gas kit
	○	Rotary attachment
●	●	InPack Technology™
●	●	Harsh environment protection kit
		OptiMotion™
		Sonar Technology™
○	○	TroCare
●	●	2 years warranty
		<b>Multifunctional table concept</b>
○	○	Aluminum cutting grid table
	○	Acrylic cutting grid table or tabletop
●	○	Aluminum slat cutting table
○	○	Acrylic slat cutting table
	○	Vacuum table
	○	Honeycomb cutting table

### Lenses

	●	2.0 in CO <sub>2</sub>
●	○	2.5 in CO <sub>2</sub>
	○	2,5 in CO <sub>2</sub> clearance lens
●	○	5.0 in CO <sub>2</sub>

Vent Set 1500 Atmos PowerJet	Vent Set 500 Atmos PowerJet	<b>Compatible exhaust systems</b>
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