Logimark AB

PRODUCT CATALOG

trotec / Gold Partner

Lasercutting, laser engraving, laser marking & laser programs

THE R-SERIES

THE Q-SERIES

THE SPEEDY-SERIES

THE SP-SERIES

THE U-SERIES

THE SPEEDMARKER-SERIES

MATERIAL OVERVIEW

OVERVIEW

FUNCTIONS AND OPTIONS

LOGIMARK STANDS FOR **PRESENT – FUTURE** AND IS AN OBVIOUS CHOICE FOR EVERYONE WITHIN THE MANUFACTURING INDUSTRY.

Our range of marking equipment offers, among other things, faster printing speed, longer service intervals, higher traceability, less maintenance and secure systems for productions. Our marking machines shows winning characteristics that make them the easiest and most reliable on the market!

Do you want to know more about what we recommend for your production? We are more than happy to meet you at your facilities to demonstrate the equipment and test it live on your products!

FOR A REMARKABLE DIFFERENCE

Our "Logimark Warranty" for you as a customer
All of our equipment is delivered with what we call Logimark's functional warranty. It is our own commitment to ensure that you as a customer receive the right equipment that meets your requirements and wishes.

Mechanical engineering
We manufacture machines with a customer-oriented design and our user-friendly systems make the machines easy to use and maintain. Our marking systems are designed to meet production needs in all industries. In-house we have designers, assemblers, programmers, vision camera experts & project managers who, together with you, develop the best solution for your production.

Service agreement
We give you the opportunity to sign a service agreement for most of the machines we deliver. Service contracts facilitate the planning of maintenance and ensures that your fleet is kept in good condition. We are responsible for making contact at predetermined intervals.

Spare parts, accessories and consumables
In Malmö, we have our extensive central warehouse which includes machines, spare parts, engraving accessories and consumables such as laser material, e.g. laminate, acrylic, wood and paper. This enables safe and fast deliveries, which gives you, as a customer, peace of mind.

Techincal service and support
Logimark has specially trained technicians to help you with start-up and service of your laser machine. We also train your operating and maintenance staff if desired. Our technicians perform preventive maintenance on your machines and perform emergency service if necessary. Service and maintenance can be carried out at the customer's premises or in one of our workshops.

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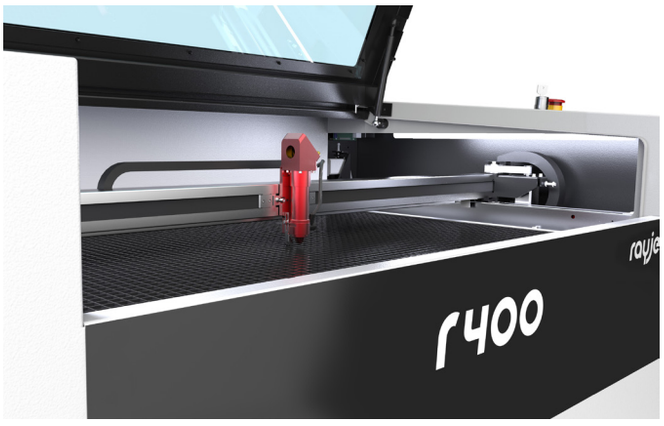
THE R-SERIES

Affordable laser cutters/laser engravers in the R-Series

- The R series was engineered by Trotec to meet all your laser cutting and engraving needs - at an affordable price.
- With the R-Series you can cut and engrave acrylic and wood up to 15 mm, textiles, paper and much more.
- The ergonomic and open design of the laser cutter simplifies the positioning of the material and guarantees efficient handling.
- With the new Ruby software you can easily design and import images from any image processing -and CAD software.
- Meets the highest safety standards.

	R400	R500
Working area	1030 x 630 mm	1300 x 900 mm
Laser power	100 W	120 W
Laser source	CO_2 DC	CO_2 DC
Max. height of workpiece	200 mm	45 mm
Max. processing speed	2 m/s	2 m/s
Overall dimensions (W x D x H)	1550 x 1080 x 1080 mm	1870 x 1700 x 1110 mm
Weight	300 kg	570 kg
Power consumption	100-250 V, 1200 W	100-250 V, 1100-1500 W
Cooling system	900 W	900 W
Software	Ruby®	Ruby®
Options	4.0" lens, Rotary attachment, Aluminium slat cutting table, Exhaust system	4.0" lens, Aluminium slat cutting table, Exhaust system, External variable power meter via RJ45-connection

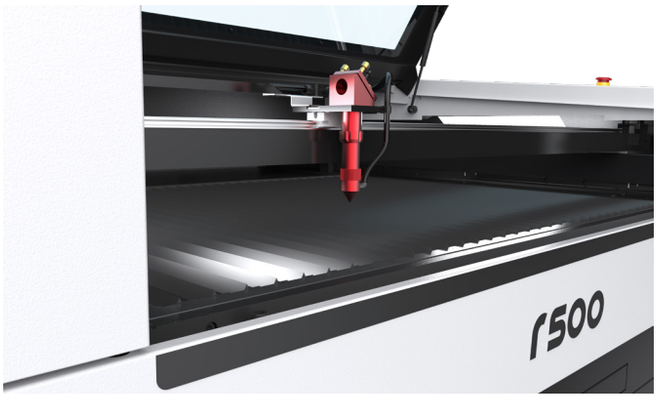


Aluminium cutting grid table

This cutting board is the perfect solution for all general laser cutting. It is suitable for parts smaller than 100 mm, as these remain in a flat position after the cut, offering a more supported area than the aluminum slat cutting table.The cutting table is included in the basic configuration.

Aluminium slat cutting table

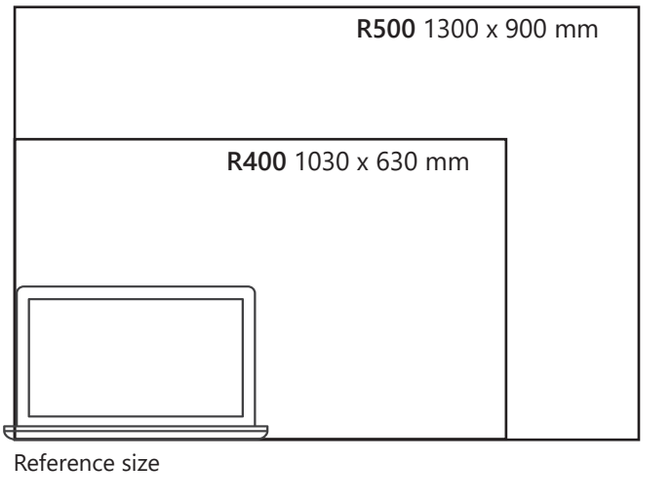
The aluminum cutting table with slats is optional and is suitable for laser cutting materials thicker than 8 mm and for parts wider than 100 mm. The slats can be positioned individually, allowing the table to be adapted to each individual application.



Rotary engraving attachment

A rotary attachment for a laser engraver is a device that allows you to engrave or mark cylindrical, conical or round objects, for example glasses, bottles, pens and mugs. Upgrade your R400 with this attachement.

Working area



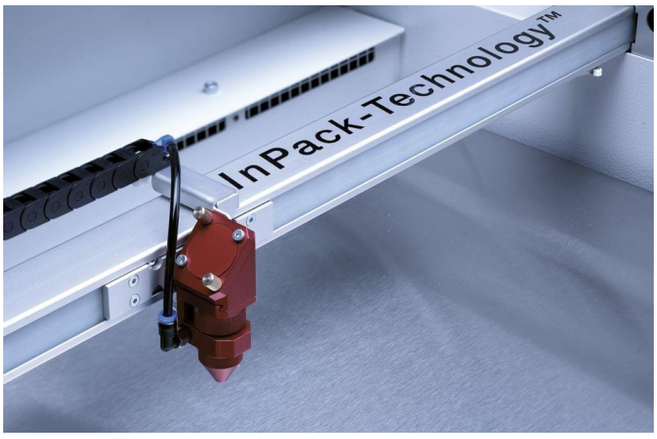
Reference size
15.6" Laptop

THE Q-SERIES

Offers the best price-performance ratio

- The Q series is a mid-range laser that combines all of Trotec's features for efficient and high-quality laser engraving and cutting.
- With the Q series you can cut and engrave a variety of materials such as acrylic and wood up to 15 mm, textiles, paper and cardboard, leather and cork.
- With the Q series, there is also the option of Trotec's Print & Cut for precise cutouts.
- Achieve excellent results in both cutting and engraving. The built-in DC CO2 laser sources for fast cutting and CeramiCore® RF CO2 for high quality engraving.
- Trotec's central OptiMotionTM technology enables both fast and precise laser processing.

	Q400	Q500
Working area	1030 x 630 mm	1300 x 900 mm
Laser power	60 RF / 100 W DC	60 RF/ 120 W DC
Laser source	CO_2 DC/ CO_2 RF	CO_2 DC / CO_2 RF
Max. height of workpiece	200 mm	45 mm
Max. processing speed	2 m/s	2 m/s
Overall dimensions (W x D x H)	1550 x 1080 x 1080 mm	1870 x 1655 x 1110 mm
Weight	300 kg	570 kg
Power consumption	100-250 V, 1200 W	100 - 250 V, 1100-1500 W
Software	Ruby®	Ruby®
Options	Vision Print & Cut, Aluminium slat cutting table, Exhaust system, 4.0" lens, Rotary attachment	Vision Print & Cut, 4.0" lens, Aluminium slat cutting table, Exhaust system, External variable power meter via RJ45-connection,

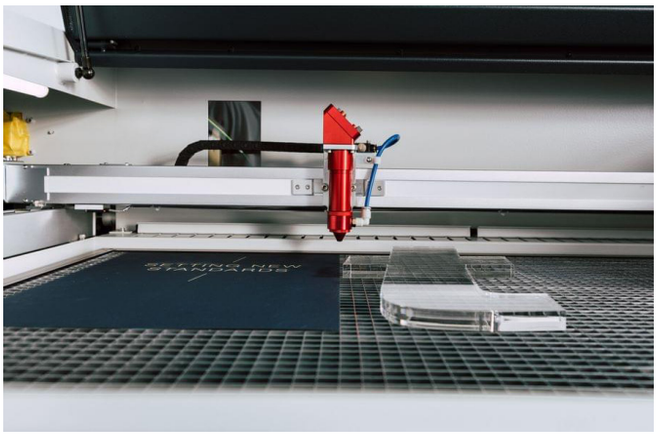


Inpack Technology™ - minimal cleaning

Fragile components are protected from dirt and dust by Inpack TechnologyTM with integrated air flushing. This results in exceptionally low maintenance and cleaning costs and thus low operating costs even during intensive use.

One investment - two tools

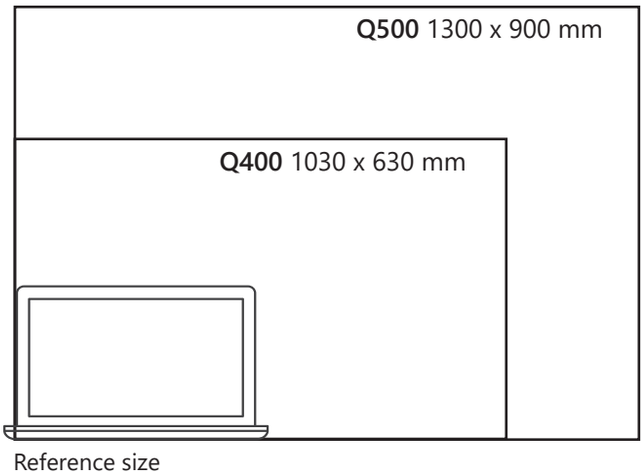
The built-in DC CO2 laser sources for fast cutting and CeramiCore® RF CO2 for high quality engraving. CeramiCore generates a radiation that is 100% ceramic and can therefore be used under very high pressure, resulting in better and faster pulse rates which are essential for excellent high-speed engraving and marking.



Sonar Technology™

Get automatic focus quickly and easily with a single push of a button thanks to the ultrasonic sensor Sonar TechnologyTM. The laser head detects the surface of the material, the focus point is automatically identified and the work table is moved to the correct focus distance.

Working area



Reference size
15.6" Laptop

Application examples

Productive, flexible, profitable

THE SPEEDY-SERIES

The Speedy series presents the market's fastest laser engraving machine

- The current engraving speed of 4.32 m/s makes the Speedy 400 the fastest laser engraving machine on the market.
- First-class components and a reliable mechanical design guarantee minimal maintenance and maximum uptime.
- The patented technology Flexx TechnologyTM enables laser technologies CO2 and fiber laser in the same machine, which gives endless possibilities of use.
- Can process several materials such as wood, glass, plastic, paper, leather and metal.
- With Ruby® software you can create graphics, photos and text elements and make quick changes.
- Achieves the best possible contour precision with the highest cutting productivity.

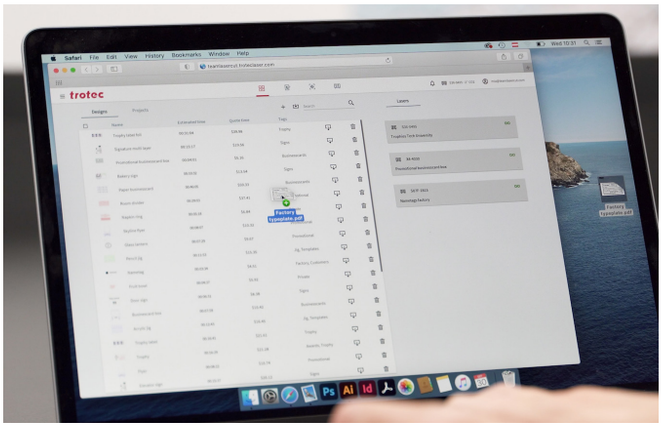
	Speedy 50	Speedy 100	Speedy 300	Speedy 360	Speedy 400
Working area	457 x 305 mm	610 x 305 mm	726 x 432 mm	813 x 508 mm	1016 x 610 mm
Laser power	30 -80 W	30 - 60 W	30 - 120 W	60 - 120 W	60 - 120 W
Laser source	CO_2	CO_2 /Fiber	CO_2 /Fiber	CO_2 /Fiber	CO_2 /Fiber
Max. height of workpiece	115,5 -140,9 mm	170 mm	200 mm	210 mm	305 mm
Max. processing speed	1,5 m/s	2,8 m/s	3,55 m/s	3,55 m/s	4,32 m/s
Overall dimensions (W x D x H)	726 x 425 x 685 mm	1018 x 784 x 467 mm	1130 x 943 x 1054 mm	1221 x 830 x 1055 mm	1428 x 952 x 1050 mm
Weight	53 kg	95 - 150 kg	150 - 215 kg	250 - 285 kg	310 kg - 350 kg
Power consumption	110-230V 50/60Hz, 800 W	AC 110 - 230V 50/60Hz, 0.83 kW - 1.3 kW	AC 110 - 230V 50/60Hz, 0.94 KW - 1.8 kW	230V / 50/60Hz / 9.6A 115V / 50/60Hz / 14.2A	230V / 50/60Hz / 10.2A 115V / 50/60Hz / 15.3A
Software	Ruby®	Ruby®	Ruby®	Ruby®	Ruby®
Options	Rotary attachment, Trolley base, Honeycomb tabletop, 1.5"/2.5" lens	Rotary attachment, Gas kit, Trolley base, 2.0"/2.5" lens	Rotary attachment, Gas kit,Trotecs Vision Design & Position, Vision Print & Cut, Temperature sensor, Two different work tables, 1.5"/2.5"/4.0" lens	Rotary attachment, Gas kit,Trotecs Vision Design & Position, Vision Print & Cut, Temperature sensor, Six different work tables, 1.5"/2.5"/4.0" lens	Rotary attachment, Gas kit,Trotecs Vision Design & Position, Vision Print & Cut, Temperature sensor, six different work tables, Pass-through kit, 1.5" /2.5"/4.0" lens

Temperature sensor

Some materials (eg acrylic) are highly flammable, especially when cutting. That's why Trotec have constructed the temperature sensor. If the temperature inside the machine exceeds a critical value, the laser will signal this with a warning sound. This guarantees maximum safety for you when using the laser.

Flexx Technology™

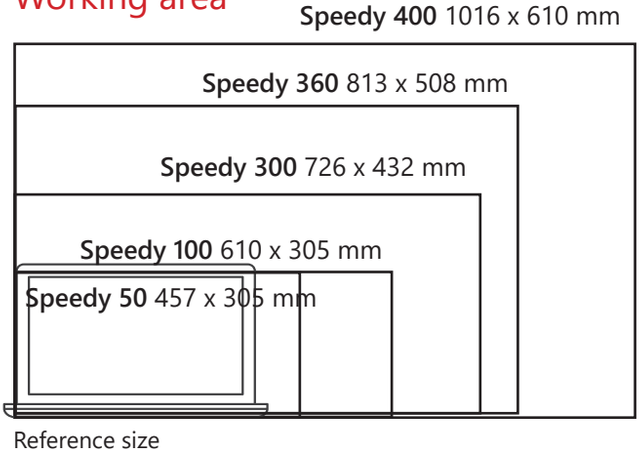
The patented Flexx TechnologyTM integrates two laser sources - CO2 and fiber in the same machine, enabling the processing of different materials in the same job. The CO2 laser source is ideal for engraving and cutting plastic, wood, rubber, leather and many more materials. The fiber laser is the right tool for marking metal and to achieve other contrasts on plastic. The two laser sources are activated alternately in a job without manually changing the laser tube, lens or focus. This ensures the highest processing quality and productivity.



Ruby® - the software that has revolutionized laser work!

A software that enables the daily work with the laser machine to flow smoothly. Ruby® contributes to a simple and fast workflow from idea to final product. The platform guarantees profitable order processing and has a network, web-based and completely digital setup.

Working area



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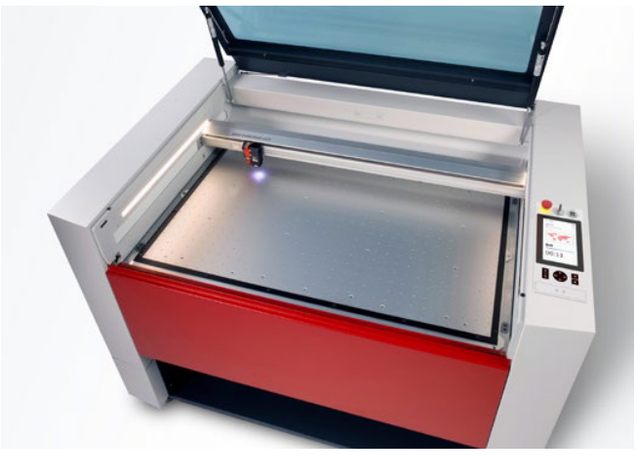


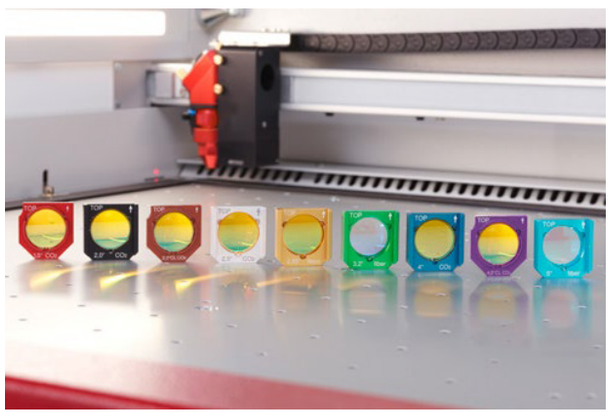
Features of the Speedy series

Rotating engraving

With the rotating attachment, you can engrave conical, cylindrical and spherical objects such as glasses, cups, vases and bottles in various sizes. As an option, there is also a special roller attachment that allows the processing of objects with large or small openings that do not fit into the standard attachment.

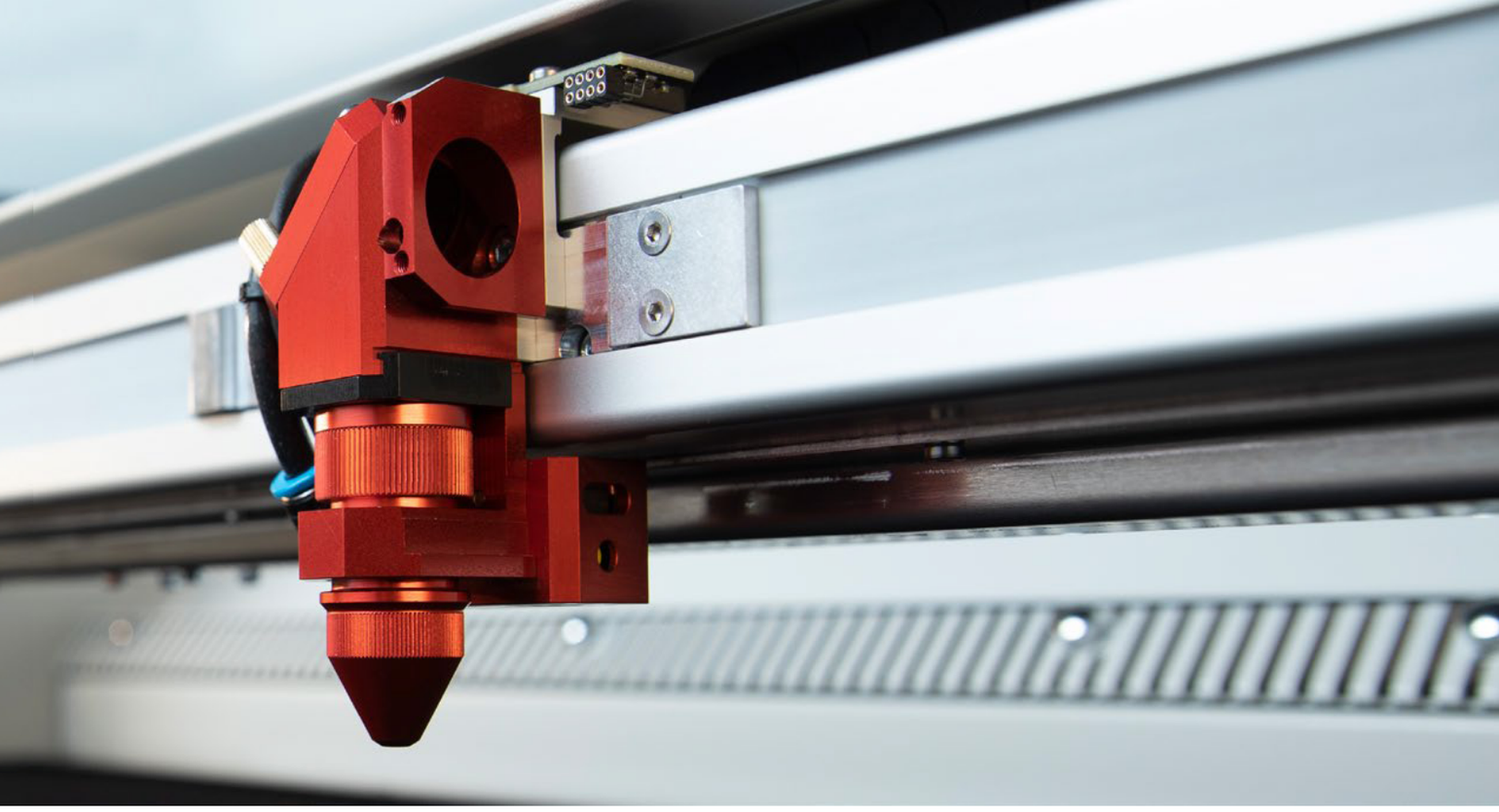
Eight focus lenses for perfect results

As a rule of thumb, the following applies to the focus lenses. The more detailed the graphics, the shorter the focal length of the laser engraving. The thicker the material to be laser cut, the larger the focal length. For this reason, Trotec offers eight different lenses for perfect results.



Engraving of bulky parts

Full flexibility also means being able to work on workpieces that are larger than the machine. The Speedy 400 can do this with ease by using the pass-through. The pass-through allows you to process long and bulky materials such as doors and wall panels of various kinds. This is optional.



Fastest laser machine on the market

The Speedy 400 is the fastest and most productive mid-sized laser engraver in the industry. The model produces high-quality results even at its maximum engraving speed of 4.32 m/s. Trotec's central OptiMotion™ technology also generates maximum cutting speed at the highest cutting quality.

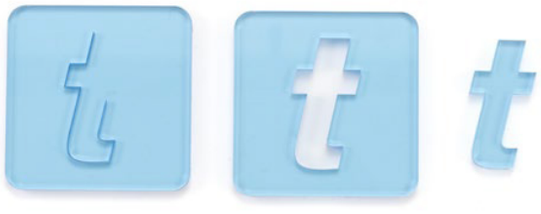
Trotec Speedy - 100% finished

Competitor 1 - 44% finished

Competitor 2 - 15% finished

More laser power - double the productivity

Productivity is not only a matter of low operating costs, but also of high laser power. More power equals more quality, efficiency and thus more profit. When buying your Speedy, it is better to choose a more powerful laser from the start.



Cutting letters in acrylic.

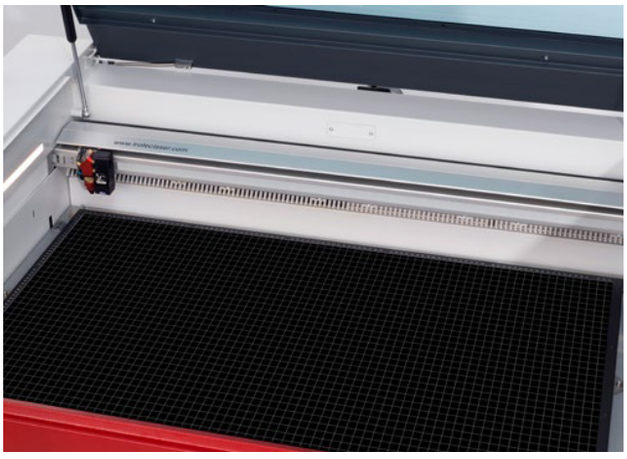
Laser power: 80 W	Laser power: 120 W
Processed: 65%	Processed: 100%
Time per piece: 29 s	Time per piece: 29 s

Engraving anodized aluminium typeplate.

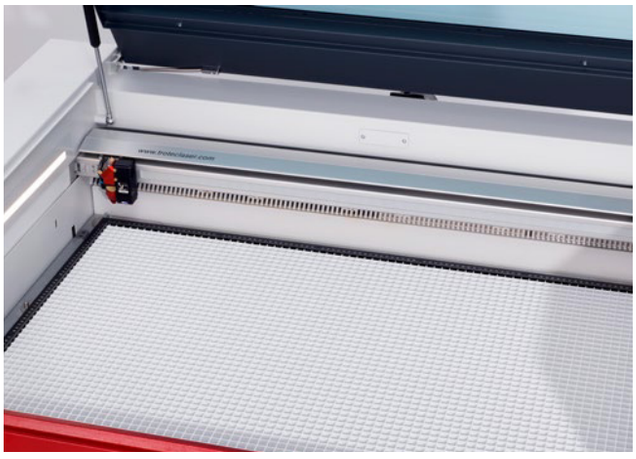
Laser power: 30 W	Laser power: 80 W
Processed: 48%	Processed: 100%
Time per piece: 55 s	Time per piece: 55 s

Multifunctional table concept

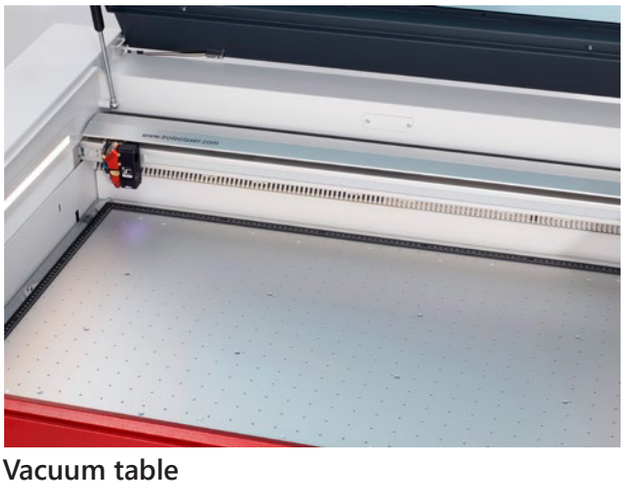
The multifunctional table concept enables optimal configuration for all engraving and cutting applications. Depending on the application, the ideal table can be selected and changed easily and quickly for the highest processing quality and productivity.



Aluminium cutting grid table
Robust universal cutting table suitable for parts smaller than 100 mm.



Acrylic cutting grid table
The acrylic cutting table prevents reflections during cutting, making it the best choice when processing acrylic, laminates and plastic films smaller than 100 mm.



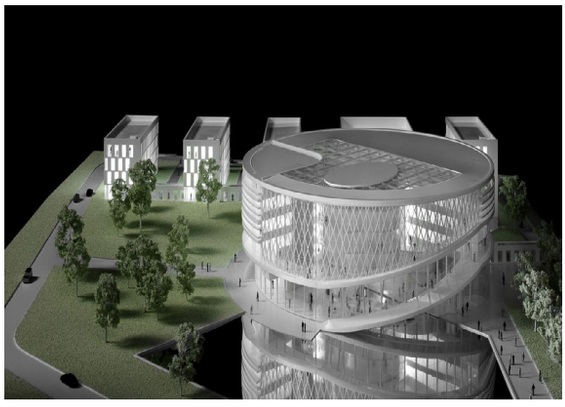
Vacuum table
Fixates the material on the work surface with the help of a negative pressure, which means precise focus on the entire area and better engraving results. Perfect for thin and light materials.

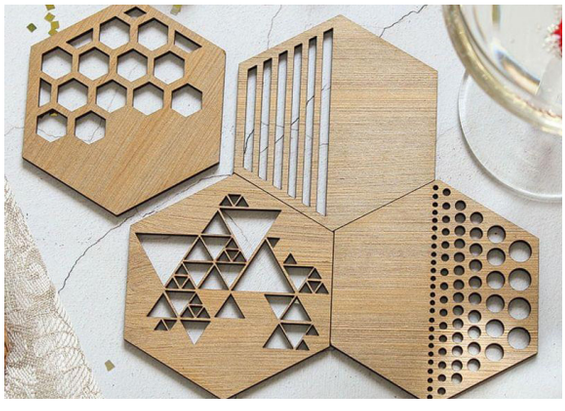
Ferromagnetic table
Thanks to the ferromagnetic construction, you can easily fixate thin materials such as paper or foils with magnets, which ensures a completely flat working area.

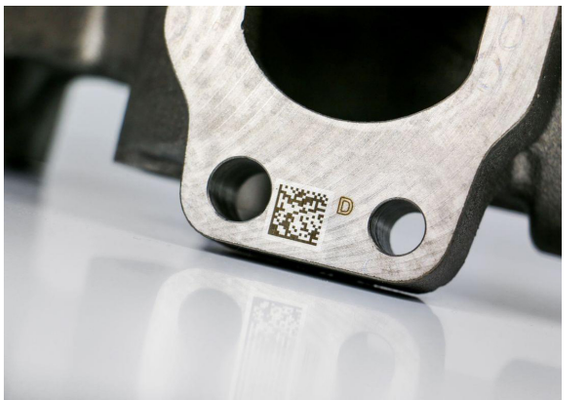
Cutting table with aluminum or acrylic slats
Mainly used for cutting thicker material (8 mm) and for parts wider than 100 mm.

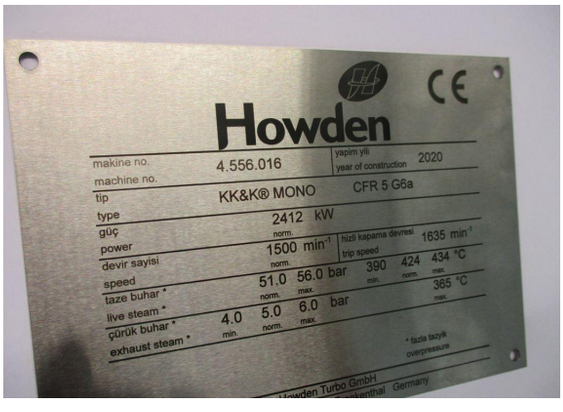
Honeycomb cutting table
Perfectly suited for applications that require no reflections and precise smoothness.

Application examples









THE SP-SERIES

Ideal for cutting materials in large formats

- Designed for fast and accurate processing of large format materials.
- Large work area which maximizes productivity.
- On the SP2000/3000, you can load material efficiently and ergonomically from all four sides.
- Cut precisely and reliably - all cut components will be exactly the same.
- Simple installation by placing the laser machine wherever you want.
- With JobControl® Expert, the laser marking machines can be seamlessly connected to existing workflow.
- Can engrave and cut materials such as acrylic, plastic sheets, leather, paper, textile and wood.
- Achieves the best possible contour precision with the highest cutting productivity.

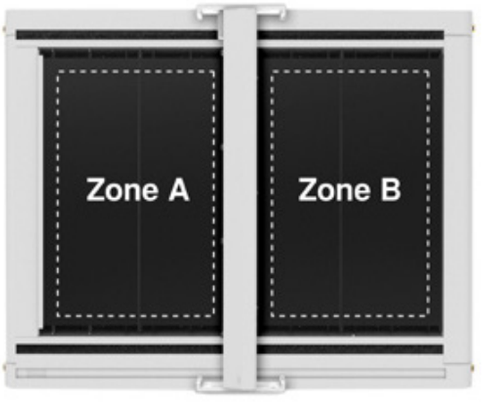
	SP500	SP2000	SP3000
Working area	1245 x 710 mm	1680 x 2510 mm	2210 x 3210 mm
Laser power	60 - 200 W	60 - 400 W	60 - 400 W
Laser source	CO_2	CO_2	CO_2
Max. height of workpiece	112 mm	50 mm	50 mm
Max. processing speed	2,54 m/s	1 m/s	1 m/s
Overall dimensions (W x D x H)	1940 x 1240 x 1140 mm	2520 x 3214 x 1230 mm	3078 x 3914 x 1230 mm
Weight	520 kg	1400 kg	1600 kg
Power consumption	208-230V, 50/60Hz, 16A 380-400V 3Ph., 50/60Hz, 3x16A	400V 3 Ph., 50/60Hz, 3x16A	400V 3 Ph., 50/60Hz, 3x16A
Software	JobControl® Expert Ruby®	JobControl® Expert	JobControl® Expert
Options	Pass-through kit, Travelling exhaust, Gas Kit, Vison Print & Cut, Rotary attachment, Six different work tables, 2.5"/5.0" lens	Tandem Assist, Digital table exhaust, Travelling exhaust, SonarTechnology™, Three different work tables, 2.5"/5.0" lens	Tandem Assist,Digital table exhaust, Travelling exhaust, SonarTechnology™, Three different work tables, 2.5"/5.0" lens

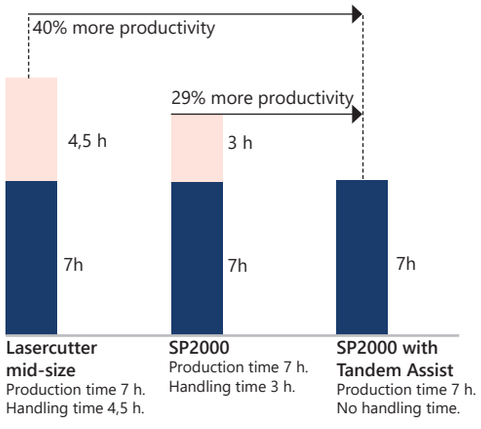
Great accessibility to the work area

The work area of the SP3000 and SP2000 laser cutters is designed for large format materials and can be easily accessed from all four sides. This enables quick and ergonomic handling of the material during the working day.

Tandem Assist

The unique “Tandem Assist” function allows non-stop laser cutting as you can divide the work area into two zones. While the laser cutter in zone A processes the material, the finished parts can be removed in zone B and loaded with new material. This means that the machine never needs to stand still and thus increases productivity considerably.

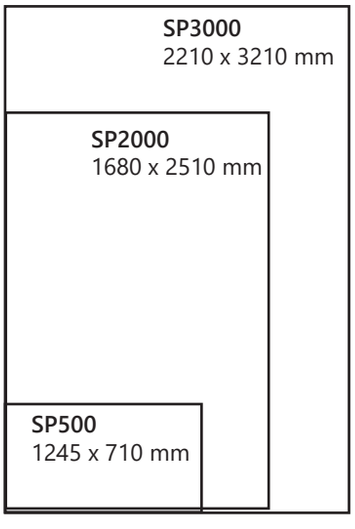




Productivity increase up to 40%

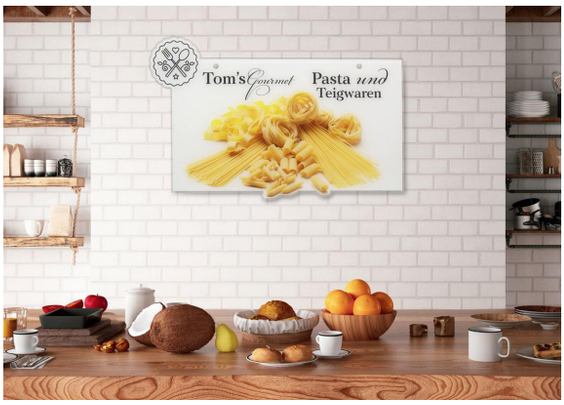
A comparison between a medium-sized flatbed laser (work area 1000 x 700 mm) and Trotec’s SP2000 shows a strong increase in production when processing 500 signs. A productivity increase of 29% respectively 40% can be achieved when working with Tandem Assist.

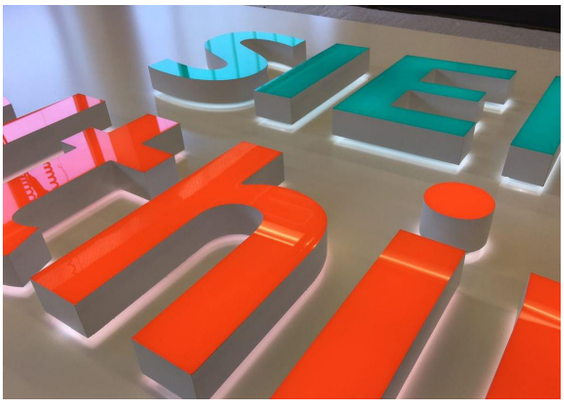
Working area



Fast, efficient and automatic

Application examples

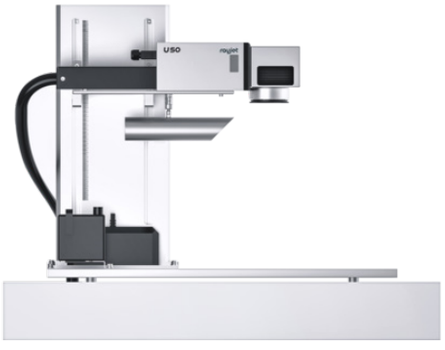




THE U-SERIES

Laser marking perfect for small components

- With the laser engravers in the U series, you can easily and quickly mark individual components such as small and medium-sized parts, even in hard-to-reach areas.
- For permanent marking mainly on metal and plastic.
- Data matrix codes, serial numbers or individual marking with the smallest fonts.
- Marking area up to 190 x 190 mm.
- High-quality lenses and an excellent laser spot guarantee a perfect application result for your marking. This means that even the smallest details can be marked precisely.
- Functions such as marking and deep engraving enable good readability even on demanding materials.
- The laser can be controlled with any Windows computer.
- The U300 is a Class 2 laser machine, so no safety precautions are required.
- U50 is an open system in laser class 4 and can be positioned as desired and therefore mark larger and bulky components.



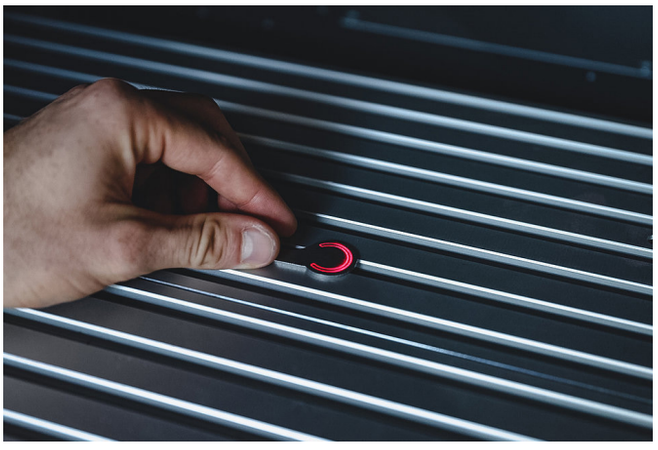
	U50	U300
Working area	120 x 120 mm - 190 x 190 mm	120 x 120 mm - 190 x 190 mm
Laser power	20 W	20 W
Laser source	Fiber	Fiber
Max. height of workpiece	-	22 - 171 mm
Max. processing speed	6 - 9,5 m/s	6 - 9,5 m/s
Overall dimensions (W x D x H)	120 x 643 x 110 mm	445 x 851 x 653 mm
Weight	8 kg	56 kg
Power consumption	115-230 V, 500 W	115-230 V, 500 W
Software	UMark, DirectMark	UMark, DirectMark
Options	Motorized stand, Laser safety glasses, Rotary attachment, F160/F254 lens,	F160/F254 lens

Process dynamic data in an instant

The software “UMark” allows you to mark information on the object in a very short time. It allows you to generate codes, import data files or graphics and create texts. The software also has a material database so you can label with the right parameters as quickly as possible.

Save time with Boardermarking

The special highlight of the U series is the bordermarking function. It allows you to project the surface to be marked or even the contour of the component at any time, position it in real time and, if necessary, correct it with a click.



High quality optics

High-quality lenses and an excellent laser spot guarantee a perfect application result for your marking. This means that even the smallest details can be marked precisely. Functions such as marking and deep engraving enable good readability even on demanding materials.

Independent and flexible due to Ethernet

Because of the newly integrated interface the laser can be controlled with any Windows computer. This means that you are no longer tied to the functionality of an industrial PC. Just plug in and start using the laser - you’ll be surprised how much time you save!

THE SPEEDMARKER -SERIES

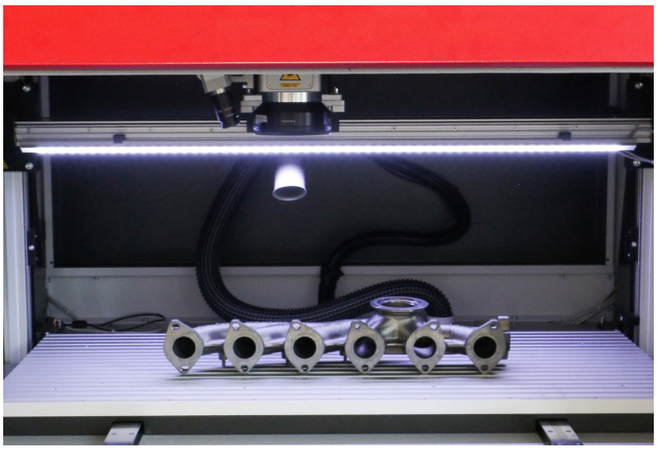
Perfect for marking within mechanical engineering, electronics and signs

- For marking everything from individual components to large batches, flat or cylindrical.
- Marking with a class 2 galvolaser system for complete traceability and brand communication.
- Enables automation processes and has endless scripting possibilities.
- 25 preset programming modules which facilitates the production process.
- The legibility of the laser marking is guaranteed by high-quality lenses and components.
- Unique possibility to mark inclined surfaces, spherical objects and cylinders thanks to the new 3D Dynamic Shifter technology (optional).





	SpeedMarker 50	SpeedMarker 300	SpeedMarker 700	SpeedMarker 1300	SpeedMarker 1350	SpeedMarker 1600
Marking area	310 x 310 mm	190 x 190 mm	310 x 310 /255 x 536 mm	310 x 310 mm	310 x 310 mm	310 x 310 mm
Working area		350 x 400 mm	580 x 495 mm	1000 x 450 mm	1000 x 500 mm	1300 x 450 mm
Laser power fiber	20,30,50 W	20,30,50 W	20,30,50 W	20,30,50 W	20,30,50 W	20,30,50 W
Laser power MOPA	20, 100 W	20, 100 W	20, 100 W	20, 100 W	20, 100 W	20, 100 W
Laser power CO_2	45, 60, 120 W		60, 120 W			
Laser source	CO_2 / Fiber/ DS	Fiber	CO_2 / Fiber/ DS	Fiber/ DS	Fiber/ DS	Fiber/ DS
Max. height of workpiece	135 x 135 mm	61-229 mm	109-363 mm 203-551 mm	190-538 mm	397-745 mm	137-485 mm
Max. processing speed	6-6.8 m/s	6 m/s	1.4 - 6 m/s	6 m/s	6 m/s	6 m/s
Overall dimensions (W x D x H)	274 x 988 x 172 mm 274 x 773 x 163.5 mm 572 x 851 x 653 mm	572 x 851 x 653 mm	780 x 1188 x 1802 mm 780 x 1144 x 1804 mm 780 x 981 x 1802 mm	1300 x 1030 x 1800 mm	1300 x 1327 x 2040 mm	1600 x 1030 x 1790 mm
Weight	26-62 kg	77 kg	260 -300 kg	400 kg	580 kg	500 kg
Power consumption	115 - 230V AC, 50/60Hz, 1/N/PE, Max 500 W	115 - 230V AC, 50/60Hz, 1/N/PE, max 500 W	230V AC, 50/60Hz, 1/N/PE, max 3200 W 230V AC,16A 50/60Hz, 1/N/PE, max 1400 W	230V AC,16A 50/60Hz, 1/N/PE, max 1400 W	230V AC,16A 50/60Hz, 1/N/PE, max 1400 W	230V AC,16A 50/60Hz, 1/N/PE, max 1400 W
Software	SpeedMark®, DirectMark	SpeedMark®, DirectMark	SpeedMark®, DirectMark	SpeedMark®, DirectMark	SpeedMark®, DirectMark	SpeedMark®, DirectMark
Options	Dynamic Shifter (3D), Motorized stand, Laser safety glasses, Rotary attachment, Safety foot switch, High-performance industrial PC, Six different lenses	Rotary attachment, Safety foot switch, Passing-through kit, High-performance industrial PC, Three different lenses	Dynamic Shifter (3D), Rotary table, Rotary attachment, Safety foot switch, High-performance industrial PC, Four different lenses	Dynamic Shifter (3D), Rotary attachment, Safety foot switch, High-performance industrial PC, Five different lenses	Dynamic Shifter (3D), Rotary attachment, Extendable Table, Double shuttle table, Safety foot switch, High-performance industrial PC, Five different lenses	Dynamic Shifter (3D), Rotary attachment, Safety foot switch, High-performance industrial PC, Five different lenses



Ensures complete traceability

The direct marking ensures complete traceability and identification of various components and tools, which can be important, for example in mechanical engineering. With SpeedMarker's machines, dynamic data such as serial numbers, barcodes, data matrix codes, logos, batch numbers, etc. can easily and efficiently be applied.

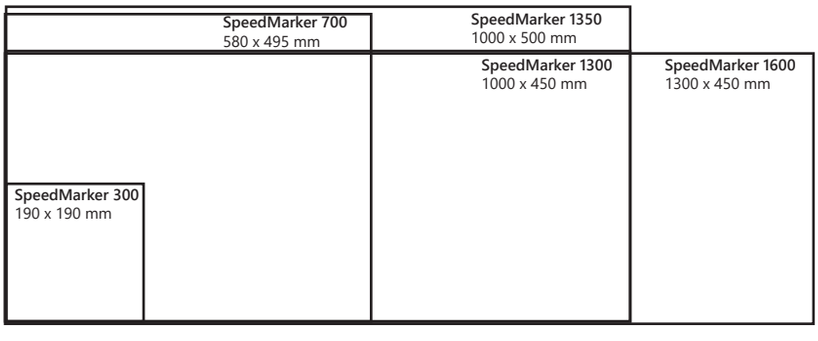
Clear markings on individual pieces or large lots

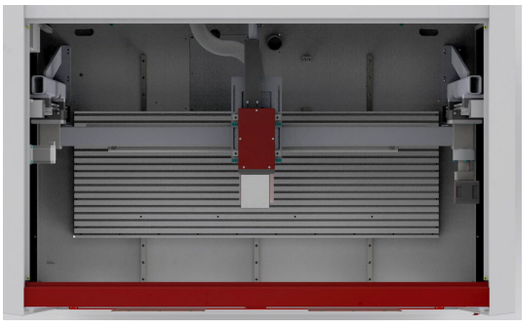
The SpeedMarker series is also suitable for customers who want to mark a large number of identical components in a very short time. Especially in the electronics industry, Trotec's laser markers impress with their precise marking on various plastics, even in the smallest character sizes.

More possibilities with MOPA laser

With the MOPA laser, plastics can be marked in higher contrasts and with more detailed results. Mark (anodized) aluminum in black or reproduce colors on stainless steel. In addition, the MOPA laser is often faster than the conventional fiber laser. Adjust the pulse length variably and reduce it to a few nanoseconds compared to conventional fiber laser sources.

Working area





Material overview

Applies to the R-Series, Q-Series, Speedy-Series and SP-Series

	Engraving			Cutting			Marking		
Material	**CO_2**	**Fiber**	**Flexx**	**CO_2**	**Fiber**	**Flexx**	**CO_2**	**Fiber**	**Flexx**
Wood	●		●	●		●			
Glass	●		●				●		●
Paper	●		●	●		●			
Cardboard	●		●	●		●			
Leather	●		●	●		●		●	●
Synthetic leather	●		●	●		●			
Textiles	●		●	●		●	●		●
Stone	●		●						
Ceramics	●		●						
Cork	●		●	●		●			
Rubber	●		●	●		●			
Porcelain	●		●						
Mirror	●		●						
Food	●		●	●		●			
Metall									
Aluminium		●	●				●		
Aluminium Anodized	●	●	●				●	●	●
Brass		●	●						
Copper		●	●						
Precious metals		●	●					●	●
Coated metal	●		●						
Stainless steel	●	●	●					●	●
Steel		●	●						
Titanium		●	●					●	
Plast									
Acrylic (PMMA)	●		●	●		●			
Acrylonitrile butadiene styrene copolymer (ABS)	●		●	●		●			
Laminates	●		●	●		●			
Polyamide (PA)	●		●	●		●		●	●
Polybutylene terephthalate (PBT)	●		●	●		●			
Polycarbonate (PC)	●		●	●		●		●	●
Polyethylene (PE)	●		●	●		●			
Polyester (PES)	●		●	●		●			
Polyethylene terephthalate (PET)	●		●	●		●			
Polyimide (PI)	●		●	●		●			
Polyoximethylene (POM) e.g. Delrin	●		●	●		●			
Polypropylene (PP)	●		●	●		●			
Polyphenylene sulfide (PPS)	●		●	●		●			
Polystyrene (PS)	●		●	●		●			
Polyurethane (PUR) foam	●		●	●		●			
Foam (PVC free)	●			●					
PETG (modified PET)				●					
SAN				●					

● Standard ○ Optional

Note that certain types of materials should not be engraved or cut with a laser due to their chemical composition. These materials contain dangerous substances that are released during processing in the form of gases and dust, which affect both the user and the operation of the machine. Some of these materials include:

- Inferior leather (Chrome VI)
- Carbon fiber
- Polyvinyl chlorides (PVC)
- PVC-based synthetic leather
- Polyvinyl butural (PVB)
- Polytetrafluoroethylenes (PTFE/Teflon)
- Beryllium
- Materials containing halogens (e.g. fluorine, chlorine, bromine, iodine and astat), epoxy or phenolic resins.

Material overview

Applies to the U-Series and SpeedMarker-Series

	Marking			Engraving			Cutting		
Material	**CO_2**	**Fiber**	**MOPA**	**CO_2**	**Fiber**	**MOPA**	**CO_2**	**Fiber**	**MOPA**
Wood				●					
Glass, Mirror				●					
Paper				●			●		
Leather		○	○	●			●		
Textiles	○			●			●		
Stone				●					
Cork				●					
Rubber				●			○		
Laminates (2ply plastics)				●					
Metals				●					
AlumaMark				●					
Aluminium anodized				●	●	●			
Aluminium blank	○		●		●	●			
Brass				○	●	●			
Copper					●	●			
Precious metals			●		●	●			
Painted metal				●	○	○			
Stainless steel		●	●	○	●	●			
Steel					●	●			
Titanium, Gold			●		●	●			
Plast									
Acrylic (PMMA)				●					
Acrylonitrile butadiene styrene copolymer (ABS)				●					
Laser Flex				●					
Polyamide (PA)		○	○	●					
Polybutylene terephthalate (PBT)				●					
Polycarbonate (PC)		●	●	●					
Polyethylene (PE)				●					
Polyester (PES)				●					
Polyethylene terephthalate (PET)				●					
Polyimide (PI)				●					
Polyoximethylene (POM) e.g. Delrin				●					
Polypropylene (PP)				●					
Polyphenylene sulfide (PPS)				●					
Polystyrene (PS)				●					
Polyurethane (PUR) foam				●					
Foam (PVC free)				●					
Melamine				●			○		
SAN							○		

● Standard ○ Optional

Note that certain types of materials should not be engraved or cut with a laser due to their chemical composition. These materials contain dangerous substances that are released during processing in the form of gases and dust, which affect both the user and the operation of the machine. Some of these materials include:

- Inferior leather (Chrome VI)
- Carbon fiber
- Polyvinyl chlorides (PVC)
- PVC-based synthetic leather
- Polyvinyl butural (PVB)
- Polytetrafluoroethylenes (PTFE/Teflon)
- Beryllium
- Materials containing halogens (e.g. fluorine, chlorine, bromine, iodine and astat), epoxy or phenolic resins.

R-Series and Q-Series overview

More information about the features and options can be found on pages 40-42.

	R400	R500
Working area (W x D)	1030 x 630 mm	1300 x 900 mm
Max. height of workpiece[1]	200 mm	45 mm
Loading area (W x D)	1130 x 690 mm	1400 x 1150 mm
Overall dimensions (W x D x H)	1550 x 1080 x 1080 mmm	1870 x 1700 x 1110 mm
Max. processing speed	1 m/s	1 m/s
Max. Acceleration	10 m/s²	10 m/s²
Laser power	100 W	DC 100 W, CO_2 120 W
Laser class	2	2
Weight[2]	300 kg	570 kg
Power consumption	100-250V, 1200 W Cooling system: 900 W	100-250 V, 1100-1500 W Cooling system: 900 W
CE-Marked	●	●
Software		
Ruby®	●	●
Functions and options		
InPack Technology™	●	●
Sonar Technology™		
OptiMotion™	●	●
Vision Print & Cut		
LED Lighting	●	●
Cooling system	●	●
Rotary attachment	○	
External pump for air assist	●	●
External variable power meter via RJ45-connection		○
1 year warranty	●	●
2 years warranty*		
Multifunctional table concept		
Aluminium cutting grid table	●	●
Aluminium slat cutting table	○	○
Lenses		
2.0 inch CO_2	●	●
4.0 inch CO_2	○	○
Exhaust system	○	○

● Standard ○ Optional **1** Based on standard lens **2** Depending on laser power

Q400	Q500	
1030 x 630 mm	1300 x 900 mm	Working area (W x D)
200 mm	45 mm	Max. height of workpiece[1]
1130 x 690 mm	1400 x 1150 mm	Loading area (W x D)
1550 x 1080 x 1080 mm	1870 x 1655 x 1110 mm	Overall dimensions (W x D x H)
2 m/s	2 m/s	Max. processing speed
15 m/s²	15 m/s²	Max. Acceleration
CO_2 DC 100 W CO_2 RF CeramiCore® 60 W	CO_2 DC 120 W CO_2 RF CeramiCore® 60 W	Laser power
2	2	Laser class
300 kg	570 kg	Weight[2]
100-250 V, 1200 W Cooling system: 900 W	100 - 250 V, 1100-1500 W Cooling system: 900 W - 1800 W	Power consumption
●	●	CE-Marked
		Software
●	●	Ruby®
		Functions and options
●	●	InPack Technology™
○		Sonar Technology™
●	●	OptiMotion™
○	○	Vision Print & Cut
●	●	LED Lighting
●	●	Cooling system
○		Rotary attachment
●	●	External pump for air assist
	○	External variable power meter via RJ45-connection
		1year warranty
●	●	2 years warranty*
		Multifunctional table concept
●	●	Aluminium cutting grid table
○	○	Aluminium slat cutting table
		Lenses
●	●	2.0 inch CO_2
○	○	4.0 inch CO_2
○	○	**Exhaust system**

***** 1 year on DC Laser source, DC Power supply and DC Water-chiller

Speedy-Series overview

More information about the features and options can be found on pages 40-42.

	Speedy 50 CO_2	Speedy 100 CO_2	Flexx
Working area (W x D)	457 x 305 mm	610 x 305 mm	610 x 305 mm
Max. height of workpiece[1]	140,9 mm	170 mm	170 mm
Loading area (W x D)	457 x 305 mm	690 x 346 mm	690 x 346 mm
Overall dimensions (W x D x H)	726 x 425 x 685 mm	1018 x 784 x 467 mm	1018 x 784 x 1004 mm
Max. processing speed	1.5 m/s	2.8 m/s	2.8 m/s
Max. Acceleration		40 m/s²	40 m/s²
Technology motion system	Stepper motor	Brushless DC servo motors	Brushless DC servo motors
Laser powerCO_2	30 W	30 - 60 W	60 W
Laser power fiber			20-30 W
Laser class	2	2	2
Weight[2]	53 kg	95 kg	150 kg
Power consumption	1 ~ AC 110-230V 50/60Hz, 800 W	AC 110 - 230V 50/60Hz, 0.83 kW - 1.3	AC 110 - 230V 50/60Hz, 1.3 kW
CE-Marked	●	●	●
Software			
Ruby®	●	●	●
Functions and options			
InPack Technology™		●	●
Harsh environment protection kit			
OptiMotion™		●	●
Sonar Technology™			
HDLR Technology™			
Trotecs Vision Design & Position			
Vision print & Cut			
Temperature sensor		○	○
Air cooler			
Touch panel			
LED Lighting		●	●
Rotary attachment	○	○	○
Pass-through kit			
Gas kit light		○	○
Air Assist incl. Integrated pump	●	●	●
Trolley base	○	○	○
2 years warranty	●	●	●
Multifunctional table concept			
Ferromagnetic table	●		
Aluminium cutting grid table			
Acrylic cutting grid table			
Aluminium slat cutting table			
Acrylic slat cutting table			
Vacuum table			
Honeycomb cutting tabletop	○	●	●
Lenses			
1.5 inch CO_2	○	●	○
2.0 inch CO_2	●	○	○
2.0 inch CO_2 clearance lins			
2.5 inch CO_2	○	○	○
2.85 inch flexx			●
3.2 inch fiber			○
4.0 inch CO_2			
4.0 inch CO_2 clearance lins			
5.0 inch fiber			○
Exhaust system	○	○	○

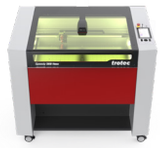
● Standard ○ Optional **1** Based on standard lens **2** Depending on laser power

Speedy 300

CO_2	Flexx	
726 x 432 mm	726 x 432 mm	Working area (W x D)
200 mm	200 mm	Max. height of workpiece[1]
795 x 440 mm	795 x 440 mm	Loading area (W x D)
1130 x 943 x 1054 mm	1130 x 943 x 1954 mm	Overall dimensions (W x D x H)
3.55 m/s	3.55 m/s	Max. processing speed
50 m/s²	50 m/s²	Max. Acceleration
Brushless DC servo motors	Brushless DC servo motors	Technology motion system
30 - 120 W	60 - 120 W	Laser powerCO_2
	20 - 50 W	Laser power fiber
2	2	Laser class
150 kg	215 kg	Weight[2]
AC 110 - 230V 50/60Hz, 0.94 KW -	AC 110 - 230V 50/60Hz, max 1.4 kW	Power consumption
●	●	CE-Marked
		Software
●	●	Ruby®
		Functions and options
●	●	InPack Technology™
●	●	Harsh environment protection kit
●	●	OptiMotion™
		Sonar Technology™
		HDLR Technology™
o	o	Trotecs Vision Design & Position
o	o	Vision print & Cut
o	o	Temperature sensor
o	o	Air cooler
		Touch panel
●	●	LED Lighting
o	o	Rotary attachment
		Pass-through kit
o	o	Gas kit light
●	●	Air Assist incl. Integrated pump
●	●	Trolley base
●	●	2 years warranty
		Multifunctional table concept
		Ferromagnetic table
		Aluminium cutting grid table
o	o	Acrylic cutting grid table
		Aluminium slat cutting table
		Acrylic slat cutting table
o	o	Vacuum table
●	●	Honeycomb cutting tabletop
		Lenses
o		1.5 inch CO_2
●		2.0 inch CO_2
o		2.0 inch CO_2 clearance lins
o		2.5 inch CO_2
	●	2.85 inch flexx
	o	3.2 inch fiber
o		4.0 inch CO_2
o		4.0 inch CO_2 clearance lins
	o	5.0 inch fiber
o	o	**Exhaust system**

Speedy-Series overview

More information about the features and options can be found on pages 40-42.



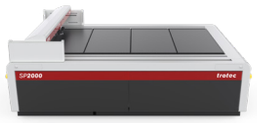
	Speedy 360 Run on Ruby® CO_2	Flexx
Working area (W x D)	813 x 508 mm	813 x 508 mm
Max. height of workpiece[1]	210 mm	188 mm
Loading area (W x D)	890 x 600 mm	890 x 600 mm
Overall dimensions (W x D x H)	1221 x 830 x 1055 mm	1221 x 830 x 1055 mm
Max. processing speed	3.55 m/s	3.55 m/s
Max. Acceleration	50 m/s²	50 m/s²
Technology motion system	Brushless DC servo motors	Brushless DC servo motors
Laser powerCO_2	60 - 120 W	60 - 120 W
Laser power fiber		20 - 50 W
Laser class	2	2
Weight[2]	250 kg	285 kg
Power consumption	230V / 50/60Hz / 9.6A	230V / 50/60Hz / 9.6A
CE-Marked	●	●
Software		
Ruby®	●	●
Functions and options		
InPack Technology™	●	●
Harsh environment protection kit	●	●
OptiMotion™	●	●
Sonar Technology™	●	●
HDLR Technology™	●	●
Trotecs Vision Design & Position	○	○
Vision print & Cut	○	○
Temperature sensor	○	○
Air cooler	○	○
Touch panel	●	●
LED Lighting	●	●
Rotary attachment	○	○
Pass-through kit		
Gas kit light	○	○
Air Assist incl. Integrated pump	●	●
Trolley base	●	●
2 years warranty	●	●
Multifunctional table concept		
Ferromagnetic table	○	○
Aluminium cutting grid table	●	●
Acrylic cutting grid table	○	○
Aluminium slat cutting table	○	○
Acrylic slat cutting table	○	○
Vacuum table	○	○
Honeycomb cutting tabletop	○	○
Lenses		
1.5 inch CO_2	○	
2.0 inch CO_2	●	
2.0 inch CO_2 clearance lins	○	
2.5 inch CO_2	○	
2.85 inch flexx		●
3.2 inch fiber		○
4.0 inch CO_2	○	
4.0 inch CO_2 clearance lins	○	
5.0 inch fiber		○
Exhaust system	○	○

● Standard ○ Optional 1 Based on standard lens 2 Depending on laser power

Speedy 400 Run on Ruby® CO_2	Flexx	
1016 x 610 mm	1016 x 610 mm	Working area (W x D)
305 mm	283 mm	Max. height of workpiece[1]
1096 x 698 mm	1096 x 698 mm	Loading area (W x D)
1428 x 952 x 1050 mm	1428 x 952 x 1050 mm	Overall dimensions (W x D x H)
4.32 m/s	4.32 m/s	Max. processing speed
50 m/s²	50 m/s²	Max. Acceleration
Brushless DC servo motors	Brushless DC servo motors	Technology motion system
60 - 120 W	60 - 120 W	Laser powerCO_2
	20 - 50 W	Laser power fiber
2	2	Laser class
310 kg	350 kg	Weight[2]
230V / 50/60Hz / 10.2A	230V / 50/60Hz / 10.2A	Power consumption
●	●	CE-Marked
		Software
●	●	Ruby®
		Functions and options
●	●	InPack Technology™
●	●	Harsh environment protection kit
●	●	OptiMotion™
●	●	Sonar Technology™
●	●	HDLR Technology™
○	○	Trotecs Vision Design & Position
○	○	Vision print & Cut
○	○	Temperature sensor
○	○	Air cooler
●	●	Touch panel
●	●	LED Lighting
○	○	Rotary attachment
○	○	Pass-through kit
○	○	Gas kit light
●	●	Air Assist incl. Integrated pump
●	●	Trolley base
●	●	2 years warranty
		Multifunctional table concept
○	○	Ferromagnetic table
●	●	Aluminium cutting grid table
○	○	Acrylic cutting grid table
○	○	Aluminium slat cutting table
○	○	Acrylic slat cutting table
○	○	Vacuum table
○	○	Honeycomb cutting tabletop
		Lenses
○		1.5 inch CO_2
●		2.0 inch CO_2
○		2.0 inch CO_2 clearance lins
○		2.5 inch CO_2
	●	2.85 inch flexx
	○	3.2 inch fiber
○		4.0 inch CO_2
○		4.0 inch CO_2 clearance lins
	○	5.0 inch fiber
○	○	**Exhaust system**

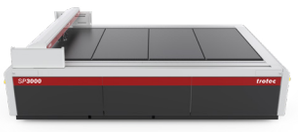
SP-Series

More information about the features and options can be found on pages 40-42.



	SP500	SP2000
Working area (W x D)	1245 x 710 mm	1680 x 2510 mm
Max. height of workpiece[1]	112 mm	50 mm
Loading area (W x D)	1420 x 820 mm	1950 x ∞ mm
Overall dimensions (W x D x H)	1940 x 1240 x 1140 mm	2520 x 3214 x 1230 mm
Max. processing speed	2.54 m/s	1 m/s
Max. Acceleration	19 m/s²	10 m/s²
Technology motion system	Brushless DC servo motors	Brushless DC servo motors
Laser power CO_2	60 - 200 W	60 - 400 W
Laser class	2	2
Weight[2]	520 kg	1400 kg
Power consumption	208-230V, 50/60Hz, 16A 380-400V 3Ph., 50/60Hz, 3x16A 380-400V 3Ph., 50/60Hz, 3x20A	400V 3Ph., 50/60Hz, 3 x 16A
CE-Marked	●	●
Software		
Ruby®	●	
JobControl®	●	●
JobControl® Cut	○	○
Functions and options		
InPack Technology™	●	●
Harsh environment protection kit	●	●
OptiMotion™		●
Sonar Technology™		○
Vision Print & Cut	○	○
Four sides access		●
Tandem Assist		○
Digital table exhaust		○
Pass-through kit	○	
Air-flushed optics	●	●
Travelling exhaust	○	○
Air Assist incl. Integrated pump	●	
Gas kit	○	●
Rotary attachment	○	
2 years warranty	●	●
Multifunctional table concept		
Aluminium cutting grid table	○	○
Acrylic cutting grid table	○	
Aluminium slat cutting table	○	○
Acrylic slat cutting table	○	○
Vacuum table	○	
Honeycomb cutting tabletop	○	
Lenses		
2.0 in CO_2	●	
2.5 in CO_2	○	○
2.5 in CO_2 clearance lins	○	
5.0 in CO_2	○	○
7.5 in CO_2		
Exhaust system	○	○

● Standard ○ Optional **1** Based on standard lens **2** Depending on laser power



SP3000

2210 x 3210 mm	Working area (W x D)
50 mm	Max. height of workpiece[1]
2500 x ∞ mm	Loading area (W x D)
3078 x 3914 x 1230 mm	Overall dimensions (W x D x H)
1 m/s	Max. processing speed
10 m/s²	Max. Acceleration
Brushless DC servo motors	Technology motion system
60 - 400 W	Laser power CO_2
2[3]	Laser class
1600 kg	Weight[2]
400V 3Ph., 50/60Hz, 3 x 16A	Power consumption
●	CE-Marked
	Software
	Ruby®
●	JobControl®
○	JobControl® Cut
	Functions and options
●	InPack Technology™
●	Harsh environment protection kit
●	OptiMotion™
○	Sonar Technology™
○	Vision Print & Cut
●	Four sides access
○	Tandem Assist
○	Digital table exhaust
	Pass-through kit
●	Air-flushed optics
○	Travelling exhaust
	Air Assist incl. Integrated pump
●	Gas kit
	Rotary attachment
●	2 years warranty
	Multifunctional table concept
○	Aluminium cutting grid table
	Acrylic cutting grid table
○	Aluminium slat cutting table
○	Acrylic slat cutting table
	Vacuum table
	Honeycomb cutting tabletop
	Lenses
	2.0 in CO_2
○	2.5 in CO_2
	4.0 in CO_2 clearance lins
○	5.0 in CO_2
	7.5 in CO_2
○	**Exhaust system**

3 Laser class 4 with pass-through

U-Series and SpeedMarker-Series overview

More information about the features and options can be found on pages 40-42.

	U50	U300
Marking area (W x D)	120 x 120 mm - 190 x 190 mm	120 x 120 mm - 190 x 190 mm
Working area (W x D)	-	350 x 400 mm
Max. height of workpiece[1]	-	22-171 mm
Overall dimensions (W x D x H)	120 x 643 x 110 mm	445 x 851 x 653 mm
Max. processing speed	6 -9.5 m/s	6 -9.5 m/s
Laser class	4	2
Weight[2]	8 kg	56 kg
Weight	20 kg	20 kg
Power consumption	115-230 V, 500 W	115-230 V, 500 W
CE-Marked	●	●
Laser power		
Laser power fiber	20 W	20 W
Laser power MOPA		
Laser power CO_2		
Z-axis		
X-axis		
Y-axis		
Software		
Umark Software DirectMark	●	●
SpeedMark® , DirectMark		
SpeedMark® Vision - SmartAdjust		
Functions and options		
Motorized stand	○	
Laser safety glasses	○	
Dynamic Shifter (3D)		
Rotary attachment	○	
Automatic lift door		
Manual lift door		●
Extendable table[3]		
Double shuttle table[3]		
Safety foot switch		
High-performance industrial PC		
Pass-through[2]		
1 year warranty	●	●
2 years warranty		
External interfaces		
Laser interlock, Marking start (24DC)	●	●
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=160, F=254	F=160, F=254
Exhaust system	○	○

● Standard ○ Optional **1** Depending on lens and configuration **2** Laser class 4 with pass-through

SpeedMarker 50 (CO_2)	**SpeedMarker 50** (Fiber)	
310 x 310 mm	310 x 310 mm	Marking area (W x D)
		Working area (W x D)
135 x 135 mm	135 x 135 mm	Max. height of workpiece[1]
274 x 988 172 mm	572 x 851 x 653 mm	Overall dimensions (W x D x H)
6 m/s	6.8 m/s	Max. processing speed
4	4	Laser class
33 kg	62 kg	Weight[2]
		Weight
115 - 230V AC, 50/60Hz, 1/N/PE, Max 500 W	115 - 230V AC, 50/60Hz, 1/N/PE, Max 500 W	Power consumption
●	●	CE-Marked
		Laser power
	20, 30 , 50 W	Laser power fiber
	20, 100 W	Laser power MOPA
45, 65, 120 W		Laser power CO_2
	○	Z-axis
		X-axis
		Y-axis
		Software
		Umark Software DirectMark
●	●	SpeedMark® , DirectMark
	○	SpeedMark® Vision - SmartAdjust
		Functions and options
○	○	Motorized stand
○	○	Laser safety glasses
	○	Dynamic Shifter (3D)
○	○	Rotary attachment
		Automatic lift door
		Manual lift door
		Extendable table[3]
		Double shuttle table[3]
○	○	Safety foot switch
○	○	High-performance industrial PC
		Pass-through[2]
○	○	1 year warranty
●	●	2 years warranty
		External interfaces
●	●	Laser interlock, Marking start (24DC)
●	●	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=150, F=200, F=300, F=400, F=720	F=100, F=160[4], F=254, F=330, F=420	**Lenses**
○	○	**Exhaust system**

3 Reduces the maximum marking area **4** Standard scope of delivery

Speedmarker-Series overview

More information about the features and options can be found on pages 40-42.

	SpeedMarker 300	SpeedMarker 700 (Fiber)
Marking area (W x D)	190 x 190 mm	310 x 310 mm
Working area (W x D)	350 x 400 mm	580 x 495 mm
Max. height of workpiece[1]	22-171 mm	319 - 469 mm
Overall dimensions (W x D x H)	572 x 851 x 653 mm	780 x 981 x 1802 mm
Max. processing speed	6 m/s	6 m/s
Laser class	2	2
Weight[2]	77 kg	260 kg
Power consumption	115 - 230V AC, 50/60Hz, 1/N/PE, max 500 W	230V AC,16A 50/60Hz, 1/N/PE, max 1400 W
CE-Marked	●	●
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		
Z-axis	●	●
X-axis		
Y-axis		
Software		
SpeedMark® , DirectMark	●	●
SpeedMark® Vision - SmartAdjust	○	○
Functions and options		
Dynamic Shifter (3D)	○	○
Rotary attachment	○	○
Automatic lift door		●
Manual lift door	●	
Extendable table[3]		
Double shuttle table[3]		
Safety foot switch	○	○
High-performance industrial PC	○	○
Pass-through[2]	○	
2 years warranty	●	●
External interfaces		
Laser interlock, Marking start (24DC), Marking stop (24DC), 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=254,	F=100, F=160[4], F=254, F=330, F=420
Exhaust system	○	○

● Standard ○ Options **1** Depending on lens and configuration **2** Laser class 4 with pass-through

SpeedMarker 700RT (Roteringsbord)	**SpeedMarker 700** (CO_2)	
310 x 310 mm	255 x 536 mm	Marking area (W x D)
310 x 310 mm	375 x 400 mm	Working area (W x D)
195 mm	363 mm	Max. height of workpiece[1]
780 x 1144 x 1804 mm	780 x 1188 x 1802 mm	Overall dimensions (W x D x H)
6 m/s	1.4 m/s	Max. processing speed
2	2	Laser class
300 kg	260 kg	Weight[2]
230V AC,16A 50/60Hz, 1/N/PE, max 1400 W	230V AC, 50/60Hz, 1/N/PE, max 3200 W	Power consumption
●	●	CE-Marked
		Laser power
20, 30, 50 W		Laser power fiber
20 W		Laser power MOPA
	60, 120 W	Laser power CO_2
●	●	Z-axis
○		X-axis
○	○	Y-axis
		Software
●	●	SpeedMark® , DirectMark
○		SpeedMark® Vision - SmartAdjust
		Functions and options
		Dynamic Shifter (3D)
	○	Rotary attachment
●	●	Automatic lift door
		Manual lift door
		Extendable table[3]
		Double shuttle table[3]
○	○	Safety foot switch
○	○	High-performance industrial PC
		Pass-through[2]
●	●	2 years warranty
		Multifunktionellt bordsconcept
●	●	Laser interlock, Marking start (24DC), Marking stop (24DC), 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=160[4], F=254, F=330, F=420	F=150, F=200, F=300, F=400	**Lenses**
○	○	**Exhaust system**

3 Reduces the maximum marking area **4** Standard scope of delivery

Speedmarker-Series overview

More information about the features and options can be found on pages 40-42.

	SpeedMarker 1300	SpeedMarker 1350
Marking area (B x D)	310 x 310 mm	310 x 310 mm
Working area (W x D)	1000 x 450 mm	1000 x 500 mm
Max. height of workpiece[1]	303 - 453 mm	537 - 687 mm
Overall dimensions (W x D x H)	1300 x 1030 x 1800 mm	1300 x 1327 x 2040 mm
Max. processing speed	6 m/s	6 m/s
Laser class	2	2
Weight[2]	400 kg	580 kg
Power consumption	230V AC,16A 50/60Hz, 1/N/PE, max 1400 W	230V AC,16A 50/60Hz, 1/N/PE, max 1400 W
CE-Marked	●	●
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		
Z-axis	●	●
X-axis	●	●
Y-axis	●	●
Software		
SpeedMark® , DirectMark	●	●
SpeedMark® Vision - SmartAdjust	○	○
Funktioner och tillval		
Dynamic Shifter (3D)	○	○
Rotary attachment	○	○
Automatic lift door	●	●
Manual lift door		
Extendable table[3]		○
Double shuttle table[3]		○
Safety foot switch	○	○
High-performance industrial PC	○	○
Pass-through[2]		
2 years warranty	●	●
Externa gränssnitt		
Laser interlock, Marking start (24DC), Marking stop (24DC), 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=254, F=330, F=420	F=100, F=160[4], F=254, F=330, F=420
Exhaust system	○	○

● Standard ○ Options 1 Depending on lens and configuration 2 Laser class 4 with pass-through

SpeedMarker 1600

310 x 310 mm	Marking Area (B x D)
1300 x 450 mm	Working area (W x D)
277 x 427 mm	Max. height of workpiece[1]
1600 x 1030 x 1790 mm	Overall dimensions (W x D x H)
6 m/s	Max. processing speed
2	Laser class
500 kg	Weight[2]
230V AC,16A 50/60Hz, 1/N/PE, max 1400 W	Power consumption
●	CE-Marked
	Laser power
20, 30, 50 W	Laser power fiber
20, 100 W	Laser power MOPA
	Laser power CO_2
●	Z-axis
●	X-axis
○	Y-axis
	Software
●	SpeedMark® , DirectMark
○	SpeedMark® Vision - SmartAdjust
	Funktioner och tillval
○	Dynamic Shifter (3D)
○	Rotary attachment
●	Automatic lift door
	Manual lift door
	Extendable table[3]
	Double shuttle table[3]
○	Safety foot switch
○	High-performance industrial PC
	Pass-through[2]
●	2 years warranty
	Multifunktionellt bordsconcept
●	Laser interlock, Marking start (24DC), Marking stop (24DC), 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=160[4], F=254, F=330, F=420	**Lenses**
○	**Exhaust system**

3 Reduces the maximum marking area

4 Standard scope of delivery

Functions and options

Air Assist

Each material reacts differently to a laser treatment. In laser engraving and laser cutting, the supply of compressed air can significantly affect and improve the results. Air Assist also protects the lens from damage, as it prevents dust from sticking.

Atmos exhaust system

This practical exhaust system ensures safe and clean operation of the laser system. It removes dust and gases from the work surface and filters odors generated during laser processing with its active carbon filter. The Atmos exhaust system contributes to a longer lifespan and protects the laser's lenses.

CeramiCore®

The patented CeramiCore® laser source technology impresses with its reliability, engraving quality and longevity. The resonator of the laser source, i.e. the point at which the laser radiation is generated is 100% ceramic. Ceramic lasers can be used at much higher pressures, resulting in better and faster pulsatility, which in turn is essential for high-speed engraving and marking.

Digital table exhaust

In order to achieve the highest cut quality, the best possible vacuum is required during laser processing. The digital table exhaust takes care of this on the SP2000 and SP3000 so that you don't have to cover the surface, that is not used, manually.

Flexx Technology™

The patented Flexx Technology™ integrates two laser sources - CO2 and fiber in the same machine, enabling the processing of different materials in the same job. The CO2 laser source is ideal for engraving and cutting plastic, wood, rubber, leather and many more materials. The fiber laser is the right tool for marking metal and achieving color change on plastic. The two laser sources are activated alternately in a job without manually changing the laser tube, lens or focus. This ensures the highest processing quality and productivity.

Galvo rotary unit

Our Galvo rotary unit is suitable for marking cylinders, rings, pipes and other conical objects. The rotary unit can be installed as an additional module in the SpeedMarker Series.

Gas Kit

With the Gas Kit, up to two process gases can be connected if desired (e.g. compressed air and N2). It prevents flames, improves dust transport and also protects the lens. For certain materials, e.g. textiles, wood or paper, the use of process gases is essential.

Inpack Technology™

Fragile components are protected from dirt and dust by Inpack Technology™ with integrated air flushing. It provides exceptionally low maintenance and cleaning costs and thus low operating costs even with very intensive use.

JobControl® Vision

JobControl® Vision is Trotec's laser software for precise laser cutting of printed materials, e.g. acrylic, paper, film or cardboard.
The camera on the laser's working head reads, and distortions in the print are detected and compensated for, and the material is precisely cut. This speeds up production times and saves time on non-erroneous cuts.

Laser power upgrade

Every Trotec flatbed laser machine can be upgraded to a higher laser power at any time. This is a cost-effective way to take advantage of more power and higher productivity if you need it. Only a few parts of the Trotec laser need to be replaced for this purpose.

Optimotion™

The motion control of the new innovative OptimotionTM stands for maximum cutting speed with the highest cutting quality. OptimotionTM optimizes and calculates the cutting speed and acceleration in real time based on the geometry and delivers high quality in curves and maximum throughput. This has resulted in cutting jobs being carried out up to eight times faster than competitor machines.

Pass-through kit

Full flexibility also means being able to work on workpieces that are larger than the machine. Speedy 400 and SP500 offers the possibility of removing a passage hatch at the rear. The pass-through allows you to process long and bulky materials such as doors and wall panels of various kinds. This is optional.

Rotary attachment

With the rotary attachment, you can engrave conical, cylindrical and spherical objects such as glasses, cups, vases and bottles in various sizes. A special roller attachment allows the processing of objects with large or small openings that do not fit into the standard cones.

Ruby®

Ruby® is the ultimate design software that enables the daily work with the laser machine to flow smoothly. You can create graphics, photos and text elements and make quick adjustments directly in the program. The platform guarantees profitable order processing and has a networked, web-based and completely digital setup. With Ruby®, you can connect all your laser machines in a network, locally or in the cloud, enabling users to distribute jobs to multiple machines from a PC or Mac. Thanks to the new workflow, jobs can be prepared by one user and produced by another at any time, from anywhere.

The smooth workflow starts with the design and continues from the preparation stage to production. Very little training is required for the user and an integrated guide provides additional helpful tips if needed. The user selects materials and material effects, e.g. deeper engraving, dark engraving or carving and the cloud-based material database helps you to streamline the process.

Ruby® contributes to a simple and fast workflow from idea to final product!

Sonar Technology™

Get automatic focus quickly and easily with a single push of a button thanks to the ultrasonic sensor Sonar TechnologyTM. The laser head detects the surface of the workpiece, the focus point is automatically identified and the work table is moved to the correct focus distance.

Tandem Assist

The unique “Tandem Assist” function allows non-stop laser cutting as you can split the work area on the SP2000 and SP3000 in two zones. While the laser cutter in zone A processes the material, the finished parts can be removed in zone B and loaded with new material. This means that the machine never needs to stand still and thus increases productivity considerably.

Temperature sensor

Some materials (eg acrylic) are highly flammable, especially when cutting. That is why Trotec has designed the temperature sensor. If the temperature inside the machine exceeds a critical value, the laser will signal this with a warning sound. This guarantees maximum safety for you when using the laser.

Travelling exhaust

An extraction system directly connected to the laser head removes dust and gases generated during the laser process. The finished exhaust is indispensable for engraving applications and the exhaust efficiently extracts dust where it is produced. This will improve the engraving result significantly when working with wood, laminate or acrylic.

Vision Design & Position

The powerful camera is cleverly integrated into the lid of the laser and, in a few seconds, delivers a detailed live image in color over the entire work surface to the Ruby® software. In this way, you can design graphics, place text directly on the workpiece or adjust an ongoing laser job live in Ruby®. Vision Design & Position shortens the laser workflow.