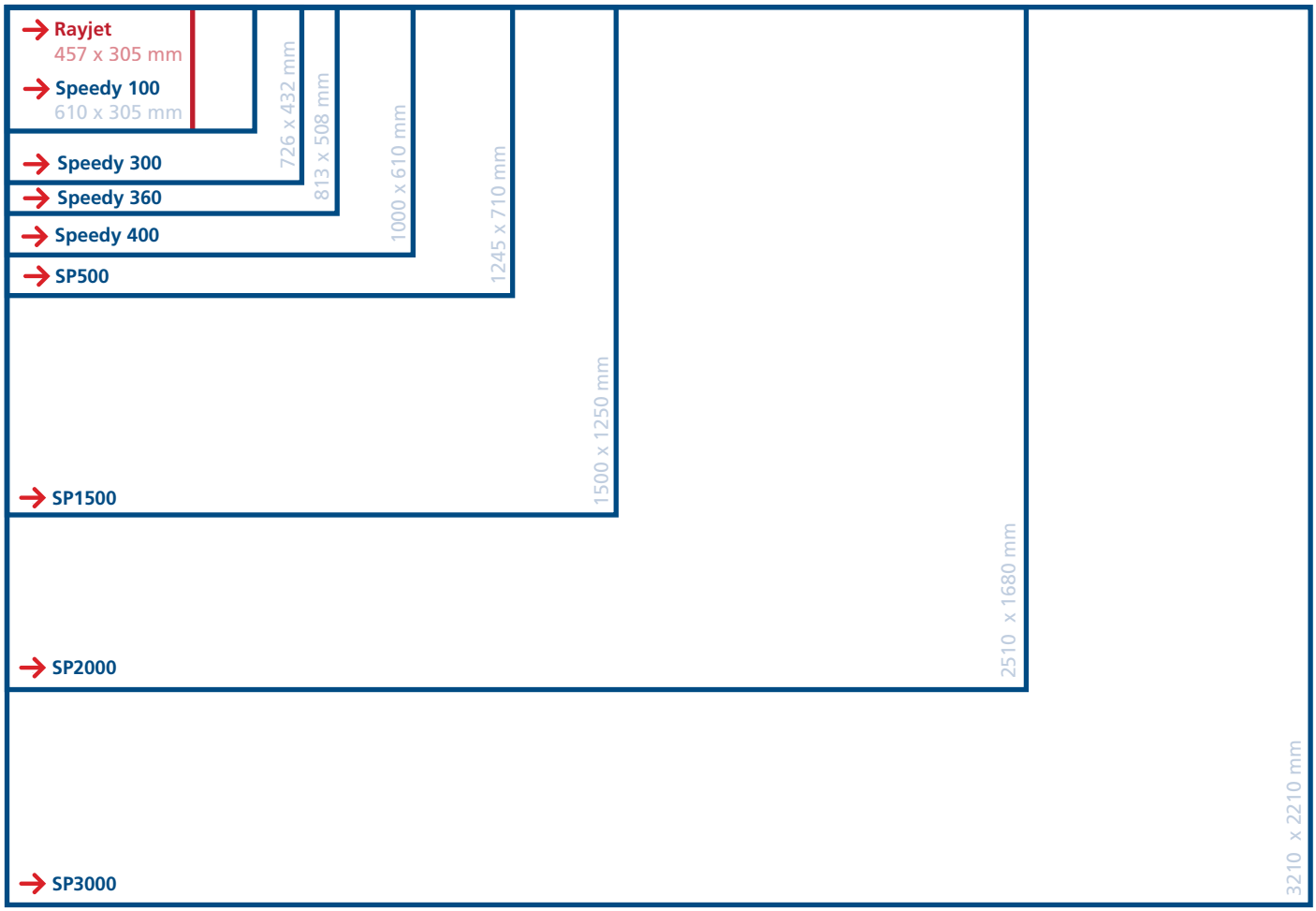
Find the right system size for your application

Trotec offers the largest range of working areas available.



Machine	Length	Width
Rayjet	457 mm	305 mm
Speedy 100	610 mm	305 mm
Speedy 300	726 mm	432 mm
Speedy 360	813 mm	508 mm
Speedy 400	1000 mm	610 mm
SP500	1245 mm	710 mm
SP1500	1500 mm	1250 mm
SP2000	2510 mm	1680 mm
SP3000	3210 mm	2210 mm

Our laser systems are designed to suit most common cut material sizes and can handle up to 200kg loads. All systems are completely scalable in terms of performance, no matter the size.

Making customers successful

We've made it our mission to help companies in the most diverse range of industries become more profitable.

How do we accomplish this?

With innovative laser solutions systematically designed to meet the needs of our customers.

We install thousands of machines around the world each year - a testament to our expertise and our customers' confidence in us. As Europe's largest manufacturer of CO_2 laser plotter systems we also have a global network of subsidiaries, distribution and service support centres at our disposal. This guarantees local availability, whether it's pre-sales applications tests, on-site installations or service requests. Our network also allows us to implement large international customer projects quickly and economically.

Trotec benefits

Unlimited Training and Technical Support
We're renowned nationally and around the world for providing phenomenal aftersales support and training.

Almost Zero Consumables and Low Maintenance
All of our Speedy laser systems feature exclusive InPack Technology, designed to protect sensitive components from dust and debris. This significantly reduces the need for the time-intensive maintenance that is required on other lasers. Our lasers also boast energy-saving technology for increased energy efficiency. All of this means there are almost no additional consumables required, making a Trotec laser the most cost effective to purchase and operate in the world.

Class Leading Technology and 10 Year Warranty
We're the only laser manufacturer in the world confident enough to offer a warranty of up to ten years on our systems.

Testimonials

Patternise®

"Trotec's experience, support & technologically advanced hardware, has enabled our business to expand far beyond our initial expectations within a very short timeframe. Whether cutting one off prototypes, or cutting over 100,000 components to extremely aggressive deadlines, we are able to trust our Trotec machines to get the job done efficiently and to the highest of standards."

Rob Payne - Patternise

HM
MadeWithLoveByHope

"We first found Trotec through a general internet search as we wanted to expand our newly formed family business. We were immediately impressed with the friendliness and the professionalism of the staff at the initial meeting and demonstration, we were sold on Trotec.

The support service has been second to none. The financial deal and quality of the whole package we think is unbeatable.

Starting out as total newcomers to the world of lasers we are continually astounded at the possibilities that Trotec, through their ongoing support and training, have introduced us to.

We began at MadeWithLoveByHope supplying friends and family with art and craft goods, we now supply professional sports clubs, shops, schools, wedding functions and many more, we are also shipping throughout the UK and worldwide.

There are other laser companies in the market but for us, it's Trotec."

Colin and Hope – Made With Love By Hope

What is your application?

Our clients are typically in these industries:

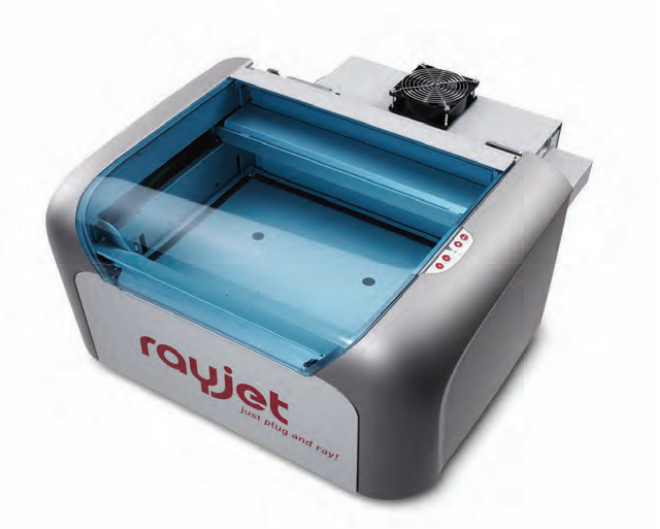
- Aerospace
- Defence industry
- Signmaking
- Automotive industry
- Electronics industry
- Woodworking
- Plastics industry
- Energy industry
- Fashion
- Mechanical engineering
- Food industry
- Education
- Glass processing
- Digital printing industry
- Rubber stamp making
- Arts and crafts industry
- Paper processing
- Trophies and awards
- Tool manufacturing
- Packaging industry
- Architecture
- Rapid prototyping
- Medical
- Display production
- And many more...

Typical Materials	Engraving/Marking	Cutting
Acrylic	•	•
Coated metals	•	
Stainless steel	•	
Anodised aluminium	•	
Fibreglass	•	•
Veneer	•	•
Glass	•	
Rubber	•	•
Wood	•	•
Ceramics	•	
Cork	•	•
Plastics	•	•
Painted metals	•	
Fabric leather	•	•
Marble	•	
MDF	•	•
Paper	•	•
Circuit boards	•	
Foamed plastics	•	•
Chipboard	•	•
Textiles	•	•
And many more...	•	•

Rayjet

As simple and easy to use as a printer - just plug and ray!

The Rayjet laser is the ideal entry level laser engraver for those wanting to add laser engraving capabilities to their business or for those just starting out. It combines Trotec's legendary build quality with a full raft of features you wouldn't necessarily expect on an entry level solution.



Powerful and fully featured

The Rayjet comes as standard with a class leading 30 or 50 watt CO_2 laser and the user friendly Rayjet Commander software to make your start in laser engraving as smooth and as easy as possible.

2 inch focusing lens:

The Rayjet comes equipped with a 2.0" focusing lens. This means that the ideal standoff from the lens to the material is 2.0" (5.08 cm). This is best for general purpose laser processing, including engraving, cutting and marking.

Auto-focus:

Working in conjunction with the focusing lens, this "auto focus" function automatically positions the engraving table and part to be processed, to the proper standoff position.

Laser pointer:

As the actual laser beam is invisible, the Rayjet comes with a visible "red dot" pointer for easy and quick positional alignment. You can even do a dry run before lasering your material.

Electronic Z-axis engraving table:

You can manually adjust the table location via buttons on the control pad. This can be used with the auto-focus function for fine adjustment for specific applications.

Quick change engraving table:

The engraving table can be easily removed by pressing two pins.

Rotary engraving option

For engraving cylindrical, conical or spherical objects such as bottles, glasses, balls or mugs up to 285mm in length and 100mm in diameter.

Easy to maintain:

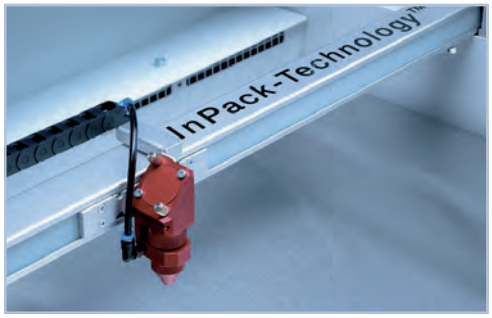
Our patented RayPack technology protects the wear parts to the highest degree. The optics and worktable can be removed for cleaning and can be reinstalled without the need for tools.

Technical data

Engraving Area: 18" x 12" (457 x 305 mm)
Max part Height: 5.7" (145 mm)
Outside Dimensions: 28.5" W x 16.5" H x 26.7"D (726 x 412 x 680 mm), Weight: 110lbs Approx (50 kg)

Engraving Speed: 60"/sec (1.5 m/s)
Software: Rayjet Commander Package
Focusing lens: 2.0"
Laser power: 30 watts or 50 watts

The Speedy Series - Features



InPack Technology™

InPack Technology™ is a combination of high quality components and protective measures designed to extend the life of the laser.

JobControl®

Our JobControl® software makes handling your engraving and cutting jobs effortless. Packed full of intelligent time-saving functions, it is provided with all of our Speedy lasers as standard.

Air assist

Reduces combustion of flammable materials and direct debris and fumes towards the exhaust to protect the lens. Full control (on/off) via JobControl®.

Ready for Flexx

Our unique Flexx technology allows you to combine two laser sources in a single machine for the first time ever. You can upgrade your single-source laser to a Flexx system at any time.

Focusing lenses

Every Speedy comes complete with a lens designed to provide perfect results for most standard engraving and cutting jobs. Additional lenses are available to suit specialist applications.

Flexible table design

Our unique table design makes switching between jobs quicker than ever before. This comes as standard on our Speedy range (excludes Speedy 100) and means you simply attach the right table for your application - no tools needed.

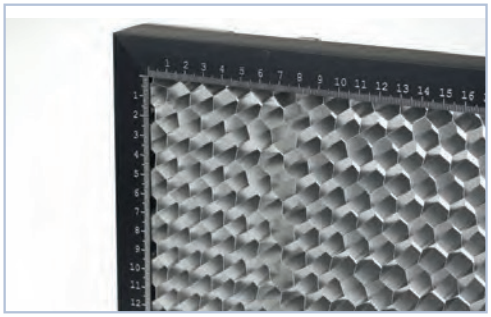
Laser Pointer and auto-focus

A red laser pointer indicates the precise location where the laser beam will contact the material. Our auto-focus feature ensures the laser beam is correctly focused when contacting material and comes as standard on selected models in the Speedy range.

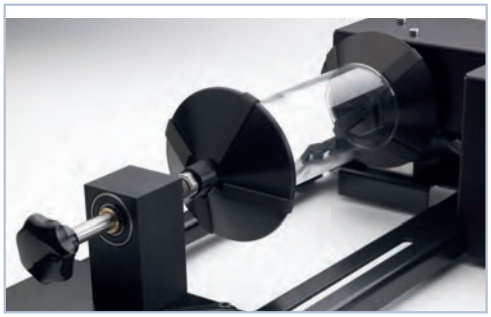
Ferromagnetic working platform

All Speedy models are equipped with a ferromagnetic working platform, making it ideal for mounting thin materials such as paper or films using magnets to ensure an even, flat surface.

The Speedy Series - Optional Extras



Various table configurations
Various tables including honeycomb, cutting and vacuum are available

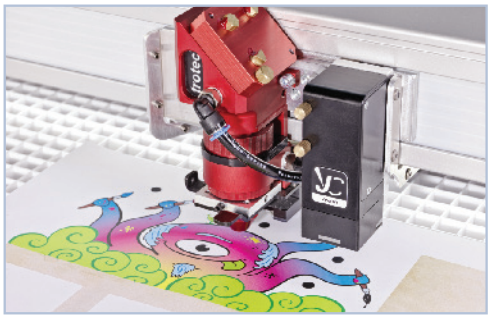


Cylindrical engraving device
For engraving cylindrical, conical or spherical objects such as bottles, glasses, balls or mugs up to 350mm in length and 150mm in diameter.

Electro-optic auto-focus
Maximum convenience for the operator through automatic focusing of the laser beam on the surface of the workpiece.

JobControl® Vision
Our award winning software* and camera system JobControl® Vision, allows users to accurately print and cut flexible and rigid materials including acrylic, paper, film and cardboard.

**Best special application software solution by the European Digital Press Association 2015*



Additional lenses
For perfect CO_2 engraving and cutting results, lenses with different focal lengths can be used, depending on the application.

Exhaust systems
An exhaust system is absolutely recommended for operation of the laser. Trotec offers a variety of exhausts to suit any application. Specialised electronics allow you to control the exhaust from within JobControl® .

Supporting frame with storage area
Use the space beneath the laser system as a storage area for important accessories like materials and engraving devices. The compact and ergonomic build of our machines helps keep your production environment clean.

Laser power upgrade
By taking advantage of a power upgrade you can benefit from more laser power as and when your business requires it, without the need to invest in a new unit.

Trocare Plan

Under our Trocare plan we're able to offer a warranty of up to ten years on all of our laser systems. You can even sign up after your normal warranty period has expired. We're confident enough in the build quality of our systems and all of the components within to be the only laser manufacturer in the country to offer this. The plan offers an annual service at an attractive fixed price as well as covering the majority of the components in the machine.

trocare

Speedy 100

The compact solution for laser engraving and marking

Our Speedy 100 laser system offers a compact, entry-level solution carefully designed to meet the evolving laser engraving and cutting needs of growing businesses. It is totally scalable in terms of software, performance and laser power, meaning it can be completely adapted to suit the needs of your business as it evolves. Like all of our lasers it carries the Trotec family genes: top quality, unmatched performance and technological leadership. The Speedy 100 is a small business investment today that will pay off big tomorrow.

For all engraving and cutting tasks
Working area 610 x 305 mm
For all popular standard material sizes
Available with CO_2 laser, fiber laser or both (Flexx)

InPack Technology™

- Maximum dust protection
- Highest quality components
- Linear guide rails
- Ultra-long lifetime means less maintenance

InPack Technology is a combination of the highest quality components and protection of the optics and all sensitive components guaranteeing an ultra-long laser lifetime. Trotec systems are designed to be able to withstand all of the wear-and-tear associated with the most industrial applications. Our design and manufacturing quality ensures your Speedy 100 will be ready for years of trouble-free, heavy-duty operation. This all adds up to a lower total cost of ownership over the lifetime of the machine.

Standard

InPack-Technology
Protects dust-sensitive components such as the mechanical components, optical elements and electronics.

Ready for Flexx
The Speedy 100 CO_2 laser can be upgraded at any time with an additional fiber laser source to become a Flexx, which can engrave almost anything.

Air assist
Reduces combustion of flammable materials and helps direct debris and fumes towards the exhaust to help protect the lens. Full control (on/off) via JobControl® software.

Laser pointer
A red laser pointer indicates the location at which the laser beam will contact the material. You can minimise the risk of faulty engraving by precise positioning of the job.

JobControl® software
JobControl® gives you access to many useful and intelligent functions such as a material database and job library. These features make your work easier, faster and more efficient.

Ferromagnetic working platform
The working platform of the Speedy 100 is ferromagnetically treated, making it easy to mount thin materials like paper.

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Options

Honeycomb table
The solid honeycomb structure minimises beam back reflection and yields perfect cutting results every time.

Cylindrical engraving device
For engraving cylindrical, conical or spherical objects such as bottles, glasses, balls or mugs up to 350mm in length and 150mm in diameter.

Additional lenses
For perfect CO_2 engraving and cutting results, lenses with different focal lengths may be used, depending on the application. (1.5 inch, 2.5 inch CO_2 lens)

Supporting frame with storage area
Use the space beneath the laser system as a storage area for important accessories like materials and basic engraving devices. This keeps your production area clean and safe.

Electro-optic auto-focus
Maximum convenience for the operator through correct automatic focusing of the laser beam on the surface of the material.

JobControl® Vision
A camera is mounted on the processing head of the laser and registers the dimensions of the printed design by reading the registration marks prior to the cutting process.

Exhaust systems
An exhaust system is absolutely recommended for optimal operation of the laser. Trotec offers a variety of exhaust systems depending on the application. Special integrated electronics let you control the Trotec exhaust systems remotely via JobControl® software.

Laser power upgrade
By taking advantage of a power upgrade (up to 60 watts CO_2, up to 30 watts fiber laser), users can benefit from higher productivity when they need it, without the need to invest in a new unit.

Speedy 300

Superior laser cutting, marking and engraving

Our lasers are the fastest and most productive systems in the world. The Speedy 300 CO_2 offers a top speed of 355 cm/s, with an acceleration of 5g, meaning you can produce 30% - 100% more every day compared to other lasers, all without sacrificing quality. This translates to better margins and higher profits. Top performance, productivity and reliability all add up to a lower total cost of ownership, meaning better value when you choose Trotec. The Speedy 300 is available with a CO_2 laser, a fiber laser or both (Flexx).

The Speedy 300 laser engraver stands for productivity, economic efficiency and precision.
Available with CO_2 laser, fiber laser or both (Flexx)

InPack Technology™

- Maximum dust protection
- Highest quality components
- Linear guide rails
- Ultra-long lifetime means less maintenance

InPack Technology™ is a combination of the highest quality components for ultra long lifetime combined with protection of the optics and all sensitive components. Our systems are designed for minimal wear-and-tear. Our design and manufacturing quality standards make sure your Speedy 300 will be ready for years of trouble free, heavy-duty production. It all adds up to a lower total cost of ownership over the lifetime of each Speedy 300 laser system.

Standard

InPack Technology™
Protects dust-sensitive components such as the mechanical components, optical elements and electronics.

Ready for Flexx
The Speedy 300 CO_2 laser can be upgraded at any time with an additional fiber laser source to become a Flexx, which can engrave almost anything.

Air assist
Helps prevent combustion of flammable materials and helps to direct debris and fumes towards the exhaust, as well as protecting the lens.

Laser pointer
A red laser pointer indicates the location at which the laser beam will contact the material. You can minimise the risk of faulty engraving by precise positioning of the job.

JobControl® software
JobControl® gives you access to many useful and intelligent functions such as a material database and job library. These features make your work easier, faster and more efficient.

Ferromagnetic working platform
The working platform of the Speedy 300 is ferromagnetically treated, making it easy to mount thin materials like paper

Options

Extended dust protection
Protects programmable axes from dust in conjunction with InPack Technology™.

Honeycomb table
The solid honeycomb structure minimises beam back-reflection and yields perfect cutting results.

Vacuum table
Fixes various materials to the working table using a light vacuum. This reduces handling effort associated with mechanical mounting.

Additional lenses
Available lenses: 1.5 inch, 2.0 inch, 2.5 inch and 4.0 inch CO_2 lens, 3.2 inch and 5 inch fiber lens; 2.85 inch Flexx lens.

Temperature sensor
A flame-up alarm will sound if temperatures reach a critical level. This ensures the greatest possible safety during laser operation

Exhaust systems
Trotec offers a variety of exhausts to suit a range of application requirements. Trotec exhaust systems can be controlled remotely via JobControl®.

Laser power upgrade
The Speedy 300 can be upgraded at any time to a higher wattage.

Cylindrical engraving device
For engraving cylindrical, conical or spherical objects such as bottles, glasses, balls or mugs. For maximum flexibility, the tiltable device is available with cones or rolls (interchangeable).

Multi Colour Jet
The Trotec Multi Colour Jet is a unique add-on for the Speedy 300 enabling the automated production of customised colour stamps. Simple, fast and clean.

Postscript converter
Our unique post-script converter converts .eps, .ps, .pdf, .bmp, .jpeg and .tiff files into a compatible format.

JobControl® Vision
A camera is mounted on the processing head of the laser and registers the dimensions of the printed design by reading the registration marks prior to the cutting process.

Speedy 360

Designed for profitability and flexibility

The innovative Speedy 360 is built with productivity, flexibility and usability in mind. It incorporates a brand new focus mode featuring Sonar Technology™ to provide the highest level of accuracy for precise engraving results. An optimised working area of 813 x 508mm reduces wastage by maximising the use of standard sized sheet material. The Speedy 360 offers fast processing with a maximum engraving speed of 3.55m/sec and options up to 120 watt power, whilst a multifunctional table concept makes it easy to switch between materials and applications.

The Speedy 360 laser engraver stands for profitability with an optimised working area of 813 x 508mm
Available with CO_2 laser, fiber laser or both (Flexx)

InPack Technology™

- Maximum dust protection
- Highest quality components
- Linear guide rails
- Ultra-long lifetime means less maintenance

InPack Technology™ is a combination of the highest quality components for an ultra long lifetime combined with protection of the optics and all sensitive components. Our systems are designed for minimal wear-and-tear. Our design and manufacturing quality standards make sure your Speedy 360 will be ready for years of trouble free, heavy-duty production. It all adds up to a lower total cost of ownership over the lifetime of each Speedy 360 laser system.

Standard

Flexible table design
Innovative table design makes switching between tables quicker than ever.

Ready for Flexx
The Speedy 360 CO_2 laser can be upgraded at any time with an additional fiber laser source to become a Flexx, which can engrave almost anything.

Air assist
Helps prevent combustion of flammable materials and helps to direct debris and fumes towards the exhaust, as well as protecting the lens.

Optimised Work Area
A work area of 813 x 508mm optimises material usage on standard sheet sizes reducing material wastage and ensuring maximum productivity.

Sonar Technology™
A patented autofocus feature ensures optimum engraving results without the need for a focus tool.

JobControl® software
JobControl® gives you access to many useful and intelligent functions such as a material database and job library. These features make your work easier, faster and more efficient.

Ferromagnetic working platform
The working platform of the Speedy 360 is ferromagnetically treated, making it easy to mount thin materials like paper

Easy Loader
The Speedy 360 incorporates a fully flexible front cover to improve accessibility, making the loading and unloading of bulky items much simpler.

Options

Extended dust protection
Protects programmable axes from dust in conjunction with InPack Technology™.

Working tables
A variety of table options are available to ensure perfect laser processing results.

Additional lenses
Available lenses: 1.5 inch, 2.0 inch, 2.5 inch and 4.0 inch CO_2 lens, 3.2 inch and 5 inch fiber lens; 2.85 inch Flexx lens.

Temperature sensor
A flame-up alarm will sound if temperatures reach a critical level. This ensures the greatest possible safety during laser operation

Exhaust systems
Trotec offers a variety of exhausts to suit a range of application requirements. Trotec exhaust systems can be controlled remotely via via JobControl®.

Laser power upgrade
The Speedy 360 can be upgraded at any time to a higher wattage.

Cylindrical engraving device
For engraving cylindrical, conical or spherical objects such as bottles, glasses, balls or mugs. For maximum flexibility, the tiltable device is available with cones or rolls (interchangeable).

Multi Colour Jet
The Trotec Multi Colour Jet is a unique add-on for the Speedy 360 enabling the automated production of customised colour stamps. Simple, fast and clean.

Postscript converter
Our unique post-script converter converts .eps, .ps, .pdf, .bmp, .jpeg and .tiff files into a compatible format.

JobControl® Vision
A camera is mounted on the processing head of the laser and registers the dimensions of the printed design by reading the registration marks prior to the cutting process.

Speedy 400

A new standard for laser engraving

The Speedy 400 is the latest innovation in laser processing, offering maximum usability and flexibility with the power to increase your overall production capacity and efficiency. The Speedy 400 has no front bar, meaning operators have easy access to the work area.This system is available with a CO_2 laser, fiber laser or both (Flexx).

- Easy access to work area
- Work area 1000 x 610mm
- Flexible table design
- Efficient engraving delivering reduced processing costs

InPack Technology™

- Maximum dust protection
- Highest quality components
- Linear guide rails
- Ultra-long lifetime means less maintenance

InPack-Technology is a combination of the highest quality components for ultra long lifetime combined with protection of the optics and all sensitive components. Trotec systems are designed for minimal wear-and-tear. Our design and manufacturing quality standards make sure your Speedy 400 will be ready for years of trouble free, heavy-duty production. It all adds up to a lower total cost of ownership over the lifetime of each Speedy 400 laser system.

Standard

Flexible table design
Innovative table design makes switching between tables quicker than ever.

Ready for Flexx
The Speedy 400 CO_2 laser can be upgraded at any time with an additional fiber laser source.

Air assist
Helps prevent combustion of flammable materials and helps to direct debris and fumes towards the exhaust, as well as protecting the lens.

Optimised work area
Generously sized 1000mm x 610mm work area designed to suit most common materials.

Laser pointer
A red laser pointer indicates the location at which the laser beam will contact the material.

JobControl® software
JobControl® gives you access to many useful and intelligent functions such as a material database and job library. These features make your work easier, faster and more efficient.

Ferromagnetic working platform
The working platform of the Speedy 400 is ferromagnetically treated making it easy to mount thin materials such as paper.

Efficient engraving
The Speedy 400 features a sophisticated energy saving system to dramatically reduce energy costs.

Options

Extended dust protection
Protects programmable axes from dust in conjunction with InPack Technology™.

Working tables
A variety of table options are available to ensure perfect laser processing results.

Pass-Through
Enables the processing of long and bulky jobs.This feature makes the Speedy 400 a class 4 laser device.

Additional lenses
Available lenses: 1.5 inch, 2.0 inch, 2.5 inch and 4.0 inch CO_2 lens, 3.2 inch and 5 inch fiber lens; 2.85 inch Flexx lens.

Temperature sensor
A flame-up alarm will sound if temperatures reach a critical level. This ensures the greatest possible safety during laser operation.

Exhaust systems
Trotec offers a variety of exhausts to suit a range of application requirements. Trotec exhaust systems can be controlled remotely via JobControl®.

Laser power upgrade
The Speedy 400 can be upgraded at any time to a higher wattage.

Cylindrical engraving device
For engraving cylindrical, conical or spherical objects such as bottles, glasses, balls or mugs. For maximum flexibility, the tiltable device is available with cones or rolls (interchangeable).

Multi Colour Jet
The Trotec Multi Colour Jet is a unique add-on for the Speedy 400 enabling the automated production of customised colour stamps. Simple, fast and clean.

Postscript converter
Our unique post-script converter converts .eps, .ps, .pdf, .bmp, .jpeg and .tiff files into a compatible format.

JobControl® Vision
A camera is mounted on the processing head of the laser and registers the dimensions of the printed design by reading the registration marks prior to the cutting process.

SP500

Ideally equipped for every application.

The SP500 is the ultimate laser cutting and engraving system for those who require fast processing of large volumes and large surface materials where smaller laser models are often insuficient. The SP500 is the most productive system in its class.This system is the ultimate laser for the education sector and is proudly used by many universities worldwide. It also counts among its owners several of the largest manufacturing companies around the globe.

High efficiency cutting and engraving
Multifunctional table concept
1245mm x 710mm working area
Pass-through capability

InPack Technology™

- Maximum dust protection
- Highest quality components
- Linear guide rails
- Ultra-long lifetime means less maintenance

InPack Technology™ is a combination of the highest quality components for an ultra long lifetime combined with protection of the optics and all sensitive components. Trotec systems are designed for minimal wear-and-tear. Our design and manufacturing quality standards make sure your SP500 will be ready for years of trouble free, heavy-duty production. It all adds up to a lower total cost of ownership over the lifetime of each SP500 laser system.

Standard

Air-flushed optics
All optics are air-flushed to offer maintenance -free operation and increased longevity

Extraction on working head
An extraction hose is mounted on the laser head to remove dust and smoke from the material surface during processing.

Control of the exhaust system
Trotec exhaust system owners can automatically control the exhaust system via JobControl®.

Air assist
Helps prevent combustion of flammable materials and helps to direct debris and fumes towards the exhaust, as well as protecting the lens.

Laser pointer
A red laser pointer indicates the location at which the laser beam will contact the material.

JobControl® software
JobControl® allows access to many useful and intelligent functions such as a material database, helpful job timer, add marker and bi-directional communication.

Ferromagnetic working platform
The working platform of the SP500 is ferromagnetically treated making it easy to mount thin materials such as paper.

Options

Extended dust protection
Protects programmable axes from dust in conjunction with InPack Technology™.

Working tables
Table options include honeycomb and vacuum tables to ensure perfect laser processing results.

Pass-Through
Enables the processing of long and bulky jobs. This feature makes the SP500 a class 4 laser device.

Additional lenses
Available lenses: 2.0 inch, 2.5 inch, 3.75 inch and 5.0 inch CO_2 lens.

Temperature sensor
A flame-up alarm will sound if temperatures reach a critical level. This ensures the greatest possible safety during laser operation.

Exhaust systems
Trotec offers a variety of exhausts to suit a range of application requirements. Trotec exhaust systems can be controlled remotely via JobControl®.

Laser power upgrade
The SP500 can be upgraded at any time to a higher wattage.

Cylindrical engraving device
For engraving cylindrical, conical or spherical objects such as bottles, glasses, balls or mugs. For maximum flexibility, the tiltable device is available with cones or rolls (interchangeable).

Multi Colour Jet
The Trotec Multi Colour Jet is a unique add-on for the SP500 enabling the automated production of customised colour stamps. Simple, fast and clean.

Postscript converter
Our unique post-script converter converts .eps, .ps, .pdf, .bmp, .jpeg and .tiff files into a compatible format.

JobControl® Vision
A camera is mounted on the processing head of the laser and registers the dimensions of the printed design by reading" the registration marks prior to the cutting process.

SP1500

High productivity and low maintenance laser cutting

The SP1500 is a large-format flatbed laser machine offering precision engineering, a robust and quality build, low maintenance costs and a large working area of 1500 x 1250mm to ensure maximum productivity and profitability of your engraving and cutting applications. The base frame weighs 1300kg making for a stable working area ideal for heavy-duty and intensive laser cutting and engraving applications.

Highest productivity and
lowest maintenance costs
Working area 1500 x 1250mm
Up to 400 Watt laser power

InPack Technology™

- Maximum dust protection
- Highest quality components
- Linear guide rails
- Ultra-long lifetime means less maintenance

InPack-Technology™ is a combination of the highest quality components for an ultra long lifetime combined with protection of the optics and all sensitive components. Trotec systems are designed for minimal wear-and-tear. Our design and manufacturing quality standards make sure your SP1500 will be ready for years of trouble free, heavy-duty production. It all adds up to a lower total cost of ownership over the lifetime of each SP1500 laser system.

Standard

Control of the exhaust system
Trotec exhaust system owners can automatically control the exhaust system via JobControl®.

Air-flushed optics
All optics are air-flushed to offer maintenance free operation and increase longevity.

Enclosed working cabin
The unique housing design meets the criteria for a class 2 laser device and allows dust to be efficiently extracted.

Air assist
Helps prevent combustion of flammable materials and helps to direct debris and fumes towards the exhaust, as well as protecting the lens.

JobControl® software
JobControl® gives you access to many useful and intelligent functions such as a material database and job library. These features make your work easier, faster and more efficient.

Laser pointer
A red laser pointer indicates the position at which the laser will contact the material.

Ferromagnetic working platform
The working platform of the SP1500 is ferromagnetically treated, making it easy to mount thin materials like paper.

Options

Extended dust protection
Protects programmable axes from dust in conjunction with InPack Technology™.

Heavy load table
Table options include a heavy load table to suit weights of up to 50kg and an anodised aluminium cutting table.

Lenses
Available lenses: 2.5 inch, 5.0 inch and 7.5inch CO_2 lens.

Temperature sensor
A flame up alarm will sound if temperatures reach a critical level to ensure the greatest possible safety of laser operation.

Exhaust systems
Trotec offers a variety of exhausts to suit a range of application requirements. Trotec exhaust systems can be controlled remotely via JobControl®.

Extraction on working head
An extraction hose is mounted on the laser head to remove dust and smoke from the material surface during processing.

Laser power upgrade
The SP1500 can be economically upgraded at any time to a higher wattage.

Cylindrical engraving device
For engraving cylindrical, conical or spherical objects such as bottles, glasses, balls or mugs. For maximum flexibility, the tiltable device is available with cones or rolls (interchangeable).

Air assist
Helps prevent combustion of flammable materials and helps to direct debris and fumes towards the exhaust, as well as protecting the lens.

Multi Colour Jet
The Trotec Multi Colour Jet is a unique add-on to your SP1500 and offers automated production of customised colour stamps. Simple, fast and clean.

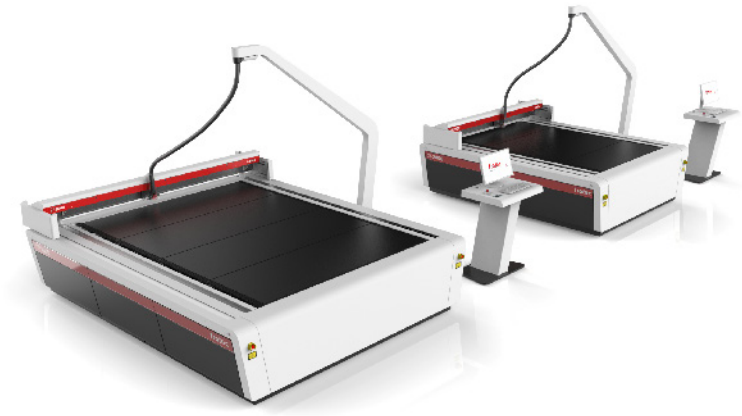
Postscript converter
The unique postscript converter converts EPS and PS Postscript files, PDF, BMP, JPEG and TIFF files into a "Trotec spool file" format.

JobControl® Vision
A camera is mounted on the processing head of the laser and registers the dimensions of the printed design by "reading" the registration marks prior to the cutting process.

SP2000 and SP3000

Productivity on a large scale

The SP2000 and 3000 models are large format flatbed lasers, open to all four sides for unrestricted loading and unloading, even while the machine is cutting. A large working area makes for the ideal solution for cutting large format materials such as acrylics, wood, textiles, cardboard and more; while innovative technology ensures a solid design capable of withstanding heavy-duty use, even in a 24/7 production environment.



Highest productivity and
solid design for high volume production
Working area up to 2210 x 3210mm (SP3000)
Up to 400 Watt laser power

InPack Technology™

- Maximum dust protection
- Highest quality components
- Linear guide rails
- Ultra-long lifetime means less maintenance

InPack-Technology is a combination of the highest quality components for an ultra long lifetime combined with protection of the optics and all sensitive components. Trotec systems are designed for minimal wear-and-tear. Our design and manufacturing quality standards make sure your SP2000/3000 will be ready for years of trouble free, heavy-duty production. It all adds up to a lower total cost of ownership over the lifetime of each SP2000/3000 laser system.

Standard

Outstanding working area

The large working area is designed for large format materials. The four side access allows unrestricted unloading and loading even while the machine is cutting.

High speed cutting at the highest quality

The innovative drive technology, precise mechanical guidance system and the superior mechanical concept enable unrivalled cutting quality, with speeds of up to 2 m/sec and 1g acceleration.

Fully closed beam path for 24/7 operation

This laser class 4 machine can be operated as a laser class 2 system in normal operation mode. The laser beam is covered over its complete path. An active laser deflector shield on the laser head completes the safety concept. No additional safety measures are necessary.

Travelling exhaust

An exhaust is mounted directly on the working head and removes dust and smoke from the material surface during processing, dramatically improving cutting and engraving quality. The working area is divided into four quadrants, allowing extraction to be activated independently within each segment.

Sonar Technology™ auto-focus

Based on ultrasonic sensors, the Sonar Technology™ auto-focus feature ensures fast and accurate focusing for the best quality engraving and cutting result every time.

Multifunctional table concept

A unique multifunction table concept enables the user to change the working quickly and easily for varying applications to ensure optimum quality of engraving and cutting.

Multi-functional table options

Slat cutting table

Aluminium cutting grid table

Acrylic cutting grid table

Honeycomb cutting table

Atmos exhaust systems

Ecologically better

An efficient matched exhaust system is highly recommended for the safe and clean operation of your laser system. Work debris, dust and gas must all be effectively removed from the working area of your machine. An exhaust system comprising of a filter and activated charcoal chamber takes care of dust and debris as well as any fumes and odours caused by the lasering process. This also helps ensure the best possible quality of your engraved or cut work piece. Trotec is the only laser system supplier to have been awarded ISO14001 certification.

Active environmental protection

Efficient filtering of dust and gas prolongs the service life of your laser system and protects both you and the environment.

Intelligent solutions

Many years of development of our lasers and the matching exhaust units have resulted in intelligent solutions such as monitor remote control, on-line filter exchange indicators and much more.

Efficient operation

Trotec exhaust systems are optimised for the toughest conditions and a long service life. Productivity is achieved by an optimum combination of laser and exhaust technology. This saves valuable time usually spent on service and maintenance.

Atmos product guide

	Atmos Compact	Atmos Mono	Atmos Mono plus	Atmos Duo plus	Vent
Level of dust created by the application	Low	Medium-high	Medium-high	Medium-high	None
Odours created by the application	Low		Medium-high	Medium-high	None
Rayjet	●	●	●		
Speedy 100	●	●	●		●
Speedy 300	●	●	●	●	
Speedy 360		●	●	●	●
Speedy 400		●	●	●	●
SP500				●	●
SP1500					●
Activated carbon	1 activ. carbon unit	1 comfort bag	2 comfort bags	2 comfort bags	
Continous operation fans	✓	✓	✓	✓	✓
Automated power control	✓	✓	✓	✓	
Digital operator panel	✓	✓	✓	✓	
Bi-directional control	✓	✓	✓	✓	

Atmos Series

For every application

The stand-alone design of the Atmos exhaust system series comes in a variety of different configurations depending on your needs: with one or two turbines (depending on the suction needed) or with one or two active charcoal Comfort Bags (depending on the level of odour filtering required).

Atmos Compact

Space saver

The Atmos compact is an effective system which filters particles and odours and which can be controlled via the monitor just like the standalone units. It is designed to carry the weight of the small and mid-sized lasers to save space and provide portability at the same time.

Prefilter systems

These are mainly used when there is a large amount of dust to filter. They are positioned between the laser and the exhaust system. The dust particles are collected in a container. You can choose between mechanical or automated dedusting (using compressed air). If particularly tenacious particles are produced (e.g when processing acrylic), the prefilter may also be treated with an additive.

Out to air extraction

These are used for the efficient extraction of dust and gas out to air.

Standard

Automated power control

Flow control technology ensures that the exhaust function is automatically adjusted according to the filter saturation. This guarantees optimal gas and dust extraction.

Digital operator panel

The operator panel is ergonomically designed and located on the upper side of the Atmos exhaust system providing simple, convenient access.

Convenient filter exchange

Exchanging the filter and active charcoal is simple, clean and convenient. The innovative design means that only a small amount of manual intervention is required to replace the entire filter assembly in your exhaust system.

Brushless turbines

Atmos exhaust systems are fitted with continuous operation brushless turbines. They are entirely maintenance free. The continuous fresh air cooling system guarantees maximum service life.

Energy saving mode

Trotec's JobControl® software may be used to set the length of time the turbines should be running before and after the engraving takes place. This ensures optimal exhaust extraction and the automated turn-on time saves valuable energy and cash.

Bi-Directional control

Atmos exhaust systems may be conveniently controlled via the monitor. The operator also receives feedback regarding turbine activity and filter saturation directly back to the Trotec JobControl® software.

GS Series

High speed laser cutting and high volume digital finishing

The GS Series of laser machines are designed to enable increased customisation and intricate detail on printed applications even on short production runs. The GS1000 is a standalone galvo workstation whilst the GS1200 is an automated system incorporating a flat pile feeder, automated paper path and sheet stacker. Both systems are designed with profitability in mind, allowing detailed processes to be carried out with optimal cost-effectiveness.

The GS1000 enables users to expand their range of services to include register-accurate contour cutting. The finest geometries of engraving or perforation of printed materials is possible on materials up to B3 in size.

For larger format processing and advanced automation, the GS1200 provides a fully automated solution for sheets up to B2 in size. With its integrated paper feed and automatic sheet stacker, the GS1200 is capable of processing up to 30 sheets per minute and can be easily integrated into your existing data management systems.

High profitability from the first page
Intricate cuts and engraving on paper
500 x 500mm working area.

Profitable printed products with digital laser cutting

Added value for printed materials: Achieve higher profit margins by using laser finishing

Whether business cards, brochures, packaging or labels – use of laser cutting or engraving increases the quality and selling prices of these products. By engraving of logos, individual laser cutting of names and ultra-sophisticated ornaments you set yourself apart from the competition.

Sheet stacker | GS1200 | Automized paper path | Flat pile feeder

Laser or die-cutting – when to use which?

Use of laser technology makes your work profitable from the very first printed sheet. For small and medium runs, laser processing is the ideal finishing solution. It saves the time and money for the production of conventional die-cutting tools. On your marks, get set, laser!

Optimised workflow with digital finishing

Laser – manual handling	Data processing	Set-up	Production time		
Laser – automated solution	Data processing	Set-up	Production time		
Conventional die-cutting	Data processing	Ordering	Delivery time die	Set-up	Production time

New Products

With a laser system of the GS series you create products that would be impossible without a laser system. Expand your range with additional services such as register-accurate contour cutting, finest geometries of engraving or perforation of printed materials. Short runs thus become highly profitable.

Variety of materials

A laser can cut a wide range of materials such as acrylic, paper, cardboard, MDF, polystyrene or foam. Combination of digital printing and laser technology enables print service providers to offer finished products – more than just a sheet of printed paper. Develop new areas of business, enthuse your customers with exceptional applications.

Perfect finishing thanks to register accuracy

Registration mark detection allows printed paper to be cut delicately and engraved individually. Printing deviations are detected by the SpeedMark Vision software, and the cutting path is automatically adjusted. No matter whether the distortion is linear or non-linear. The cutting lines always match the printing perfectly.

SpeedMark Software

The SpeedMark Software is designed specifically for industrial cutting and engraving processes. From data import through to graphics processing and the generation of barcodes, it covers all steps. Additionally, the SpeedMark user interface can be customised using macros. From simple direct input to fully automated workflows, everything is possible. You can even process variable data from external systems and databases.

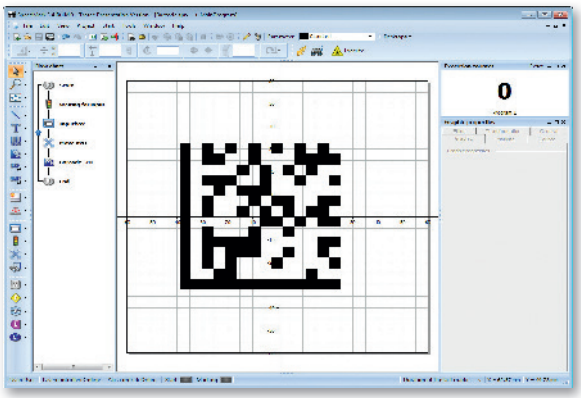
SpeedMarker Series

High speed laser marking for industrial applications

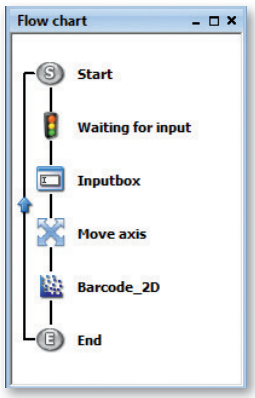
Developed for efficient laser marking of metals and plastics along the industrial production chain, the SpeedMarker Series offers the perfect combination of intelligent software with high quality hardware.

The laser marking systems are available in 4 different sizes and various configurations to meet your individual requirements. Additionally, a broad range of options can be combined for special tasks.

Modular product portfolio
Reliability in demanding environments
Intelligent laser software
for optimised work processes



SpeedMark user interface



Individual marking programs easily designed

One software package for all your needs: SpeedMark

Developed for automated marking processes, the SpeedMark provides program modules for typical marking tasks (e.g. producing serial numbers or codes). These are easy to adjust and allow the creation of tailor-made marking programmes using graphical flow control. From simple direct input to fully automated marking, everything is possible – with no need for any special programming knowledge.

- Automatic, consecutive barcode generation
- Customisable user interfaces
- Material database for managing marking parameters
- Management of various user rights
- Interfaces to external systems such as databases
- Deep engraving function and processing of dynamic data

Maintenance-free fiber laser

The high-speed SpeedMarker fiber laser is air cooled and maintenance free. Mark metals and a broad range of plastics without chemicals or other consumables.

Focus finder (optional)

A second laser pointer enables precise focusing directly on the workpiece without the need for additional equipment.

Pilot laser for border marking

All SpeedMarker systems have a laser pointer for setting up the workpiece fast and easily. It displays the edges of the marking and helps you in adapting the size of the mark in order to optimise the set up before the laser job.

Additional lenses

Lenses of focal length F 100, F 254, F 330 and F 420 are available in addition to the standard F 160 lens. This enables you to vary the size of the marking field at any time. You are therefore optimally equipped for all needs.

Automatic and programmable door

For faster and even more ergonomic part handling the SpeedMarker 700 and 1300 are equipped with an automatic door. The electrical door can also be programmed via the SpeedMark software in order to further optimise the production process.

Axis concept for ultimate flexibility

The optimum setup for your application: When purchasing the machine, select either a mechanical (adjustable using a hand wheel), electrical or software- controlled Z-axis (controlled via the software or the keyboard on the machine itself). X- and Y-axes are available for several products. These are software-controlled and enable you to mark big fields and parts.

Autostart function

You can automatically start a laser job by closing the hood. This saves time and therefore money on everyday tasks.

Modular concept

Choose the system size that fits best to your application. In addition, the housing of a Speed-Marker system can be fitted with a pass-through hatch and removable side covers on request, making it possible to mark larger and bulkier workpieces (the system is then classified as laser class 4). A SpeedMarker system can also be extended by using handling options such as conveyor belts or rotary tables.

High-performance galvos

Raise the marking speed using high-performance galvos. Mark up to 900 characters per second for higher productivity.

ProMarker Series

High speed laser marking as easy as printing

The ProMarker is the first galvo laser system that works just like an office printer. No more complicated software or steep learning curves. The DirectMark printer driver creates jobs directly from any graphics, CAD or label printing software. Choose between the ProMarker 100, an open laser class 4 package including a precise Z-axis, or the ProMarker 300, an ergonomic and compact desktop laser class 2 workstation.

Maintenance free fiber laser
A high speed, air-cooled, maintenance-free fiber laser marks metals and many plastics without the need for any consumables, minimising the cost of ownership and maintenance.

Lenses for every occasion
Lenses are easily exchangeable for varying the marking field size, in addition to the supplied F 160 lens, F 100 and F 254 lenses are available.

Focus finder (optional)
A second laser pointer enables precise focusing directly on the workpiece without the need for additional equipment.

Pilot laser for border marking
A laser pointer guide helps to quickly and easily set up the workpiece.

Mechanical, electrical or software-controlled Z-axis
Selectable mechanical, electrical or software driven operation of the Z-axis is available to provide the optimum set up depending on application.

The Speedy Series

	Speedy 100	Speedy 300	Speedy 360	Speedy 400
Available products	Speedy 100 Speedy 100 fiber Speedy 100 flexx	Speedy 300 Speedy 300 fiber Speedy 300 flexx	Speedy 360 Speedy 360 fiber Speedy 360 flexx	Speedy 400 Speedy 400 fiber Speedy 400 flexx
Overall dimensions (WxDxH)	982 x 739 x 994 mm	1128 x 911 x 1054 mm	1221 x 790 x 1055 mm	1408 x 960 x 1070 mm
Working area	610 x 305 mm	726 x 432 mm	813 mm x 508 mm	1000 x 610 mm
Max. height of workpiece	170 mm	200 mm	280 mm	305 mm
Max. processing speed CO_2 Laser Fiber Laser Acceleration	 2.8 m/sec 2 m/sec 2g	 3.55 m/sec 2 m/sec 5g	 3.55 m/sec 2 m/sec 5g	 3.55 m/sec 2 m/sec 4g
Laser power CO_2 Laser Fiber Laser	 12 – 60 watts 10 – 30 watts	 12 – 120 watts 10 – 50 watts	 40 – 120 watts 10 – 50 watts	 40 – 120 watts 10 – 50 watts
Multifunctional table concept			•	•
Rotary attachement	•	•	•	•
Pass-Through Option				•
InPack Technology™	•	•	•	•
Job Control® Vision		•	•	•
Sonar Technology™			•	

The SP Series

	SP500	SP1500	SP2000	SP3000
Dimension (w x d x h)	1920 x 1240 x 1140 mm	2850 x 2200 x 1300 mm	2519 x 3214 x 1230 mm	3076 x 3914 x 1230 mm
Working area	1245 x 710 mm	1500 x 1250 mm	1680 x 2510 mm	2210 x 3210mm
Loading area	1400 x 710 mm	1500 x 1250 mm	1950 x ∞ mm	2500 x ∞ mm
Weight	approx. 550 kg	approx. 1300kg	approx. 1400kg	approx. 1600kg
Tables	Slat Cutting Table, Aluminum Cutting Grid Table, Acrylic Cutting Grid Table, Honeycomb Cutting Table			
Lenses	2.0", 2.5", 3.75", 5", 2.5"CL	2.5", 5", 7.5"	2.5“, 3.75“, 5.0“,	
Max. processing speed/ acceleration	2.54 m/sec. 2 g	1.65 m/sec. 1 g	2 m/sec. 1 g	2 m/sec. 1 g
Laser power levels	Sealed off CO_2 laser with 40 – 200 watts	Sealed off CO_2 laser with 60 – 400 watts		
Laser Class	Laser safety class 2 (laser class 4 with pass-through option)	Laser safety class 2	Fully enclosed beam path laser class 4 laser; the system can be operated as laser class 2 in standard operation mode	
Mechanical design	Enclosed chassis with double safety interlock system, maintenance-free, brushless, DC servo motors; CE compliant, InPack-Technology™			
Working head	Software-controlled z-axis, travelling exhaust, JobControl® Vision		Software-controlled z-axis, travelling exhaust, JobControl® Vision, active laser deflector shield, lens protection window, Sonar Technology™	

GS Series

	GS1000	GS1200
Overall dimensions (W × D × H):	1000 x 1400 x 2200 mm	4800 x 1800 x 2200 mm
Possible formats:	up to B3	up to B2
Maximum positioning speed:	up to 9 m/s	up to 9 m/s
Mechanical design:	Closed casing with double safety system, CE-compliant; software-controlled Z-axis; software-controlled Y-axis (only GS1200 pro)	
Laser features and power levels:	Sealed-off CO_2 laser with 100 W output, water-cooled; 3-axis galvo system	
Weight:	approx. 550 kg (depending on configuration)	approx. 2000 kg (depending on configuration)

The Speedmarker Series

	SpeedMarker 100	SpeedMarker 300	SpeedMarker 700	SpeedMarker 1300
Exterior dimensions (W x H x D) in mm	375 x 666 x 800	572 x 653 x 851	780 x 1802 (1662) x 960	1300 x 1790 x 960
Maximum marking area (depends on lens) in mm	up to 240 x 240	up to 190 x 190	up to 310 x 310	up to 310 x 310
Available axis	Z	Z	Z, X	Z, X, Y
Maximum working area in mm (Segmentation via axis system)	–	–	up to 630 x 310	up to 1120 x 635
Maximum component height in mm	399	250	570	557
Laser source	Pulsed, maintenance free fiber laser. Air cooled	Pulsed, maintenance free fiber laser. Air cooled	Pulsed, maintenance free fiber laser. Air cooled CO_2 laser. Air cooled	Pulsed, maintenance free fiber laser. Air cooled
Laser power	10 – 50 Watt	10 – 50 Watt	10 – 50 Watt Fiber laser 30 and 45 Watt CO_2 laser	10 – 50 Watt
Door	–	Manual	Automatic	Automatic
Laser safety class	4	2	2	2
Maximum marking speed	10,000 mm/s (640 cps) – optional 15,000 mm/s			
Software	SpeedMark			

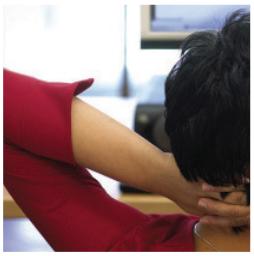
The Promarker Series

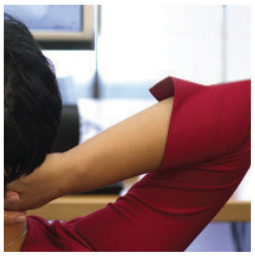
	ProMarker 100	ProMarker 300
Exterior dimensions (W x H x D) in mm	400 x 786 x 450 375 x 666 x 800 with electrical Z-axis	572 x 653 x 851
Maximum marking area (depends on lens) in mm	up to 180 x 180	up to 180 x 180
Maximum working area in mm	Z-post or electrical Z-axis	Mechanical or software-controlled Z-axis
Maximum component height in mm	531 399 with electrical Z-axis	250
Laser source	Laser source: Pulsed, maintenance free fiber laser. Air cooled	Laser source: Pulsed, maintenance free fiber laser. Air cooled
Laser power	10 - 20 Watt	10 - 20 Watt
Door	–	manual
Laser safety class	4	2
Maximum marking speed	10,000 mm/s (640 cps/s)	
Software	DirectMark	

trocare

Your benefits

- Full protection for up to 10 years
- Predictable operating costs
- Complete cover for all parts including laser tubes
- Priority booking service
- Rapid support from the manufacturer and our own trained engineers
- Discounts on other services





Peace of mind from **£12** per week

We manufacture first class laser systems total solutions designed to make you more profitable!

Trotec laser systems are developed to be able to integrate seamlessly with your business. Trocare provides you with optimum cover during your laser's operation for up to 10 years.

Trocare is tailored to meet your needs providing high productivity levels and predictable operating costs.

No small print

You can rely on us. Our Trocare programme is straightforward, practical, results-oriented and designed to support your company's workload.

Concentrate on your business - we'll provide the highest level of support to our products!

setting new standards

Trocare services

Total Cost of Ownership

You will be granted an increased level of new product warranty for your laser system for the entire duration of a Trocare Plan certificate. For existing machines, your device will be granted the same warranty conditions as a new device after an inspection, and repairs carried out to bring your machine to the correct standard. This will be chargeable if the device is out of initial warranty period.

Telephone hotline

Contact the Trotec technical support team on 0191 580 1182. Qualified service staff will provide you support and help you to solve any problems you might encounter.

Priority services

Trotec will work hard to ensure that your business is up and running as soon as possible following a technical issue. It has a team of skilled engineers, developers, a well-stocked spare parts warehouse, and replacement devices.

Discount on training

Trocare certificate holders receive discounts on operator training.

Travel and labour for service calls included*

In the event of a service callout travel and labour charges are included in your Trocare programme. Trocare gives you easy budgeting and prevents nasty surprises.

*UK mainland only within 180 miles of local office.

Software updates

Trocare includes free JobControl® software updates to the latest level of the purchased master version as required, subject to compatibility with your system & IT framework (control PC, laser system firmware, other installed software) and on the basis of the compatibility list.

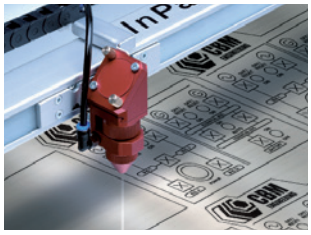
Annual service

An annual service is required for all machines covered on the Trocare programme and is included with your Trocare agreement. The annual service is carried out according to the device maintenance schedule and includes cleaning, alignment of the laser and table. All core components essential to the optimal functionality of the device are inspected and serviced. Additional discounted services may be booked separately at additional cost.

Global organisation
for local customer satisfaction

You can find Trotec offices in:
Austria (headquarters), Germany, Switzerland, France, the Netherlands, Great Britain, Poland, Russia, China, japan, USA, Canada, South Africa and Australia.

Distribution and service centres
In 90 countries around the world.



setting new standards

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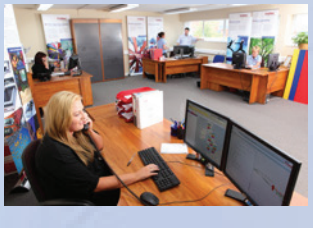

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