

**trotec**

# Speedy Series

Laser Engraving Systems  
Profitability by Design



/ SETTING NEW STANDARDS

# Why Speedy?

Speedy represents the pinnacle of laser cutting technology, carefully designed by industry experts to meet the demands of professionals.

Whether your requirements involve intricate single-piece projects or large-scale production runs, Speedy offers a range of working area options, from 457 x 305 mm (16 x 12 in) to an expansive 1016 x 610 mm (40 x 24 in). What truly sets Speedy apart, however, is its unmatched engraving speed, making it the preferred choice for demanding users in fields such as personalization, education, and industrial applications.

## Why should you buy a Speedy from Trotec?

The Speedy series embodies productivity, adaptability, and user-friendliness. When you invest in a Trotec Speedy, you are choosing an Austrian-engineered laser system that comes with comprehensive support from your local Trotec team, all at a competitive price point.



## A comprehensive business solution

Trotec provides an all-inclusive package, including the laser system, software, exhaust, materials, and service, allowing you to focus on your core operations.

## Unrivaled cutting and engraving precision

Speedy lasers are carefully engineered for long-lasting, precise cutting and engraving. Guaranteeing uninterrupted operation over many years.

## Enhanced productivity and flexibility

Experience engraving at a previously unattainable speed. With Speedy's rapid engraving capabilities, you can achieve clear and legible results in record time.

## Cutting-edge laser software

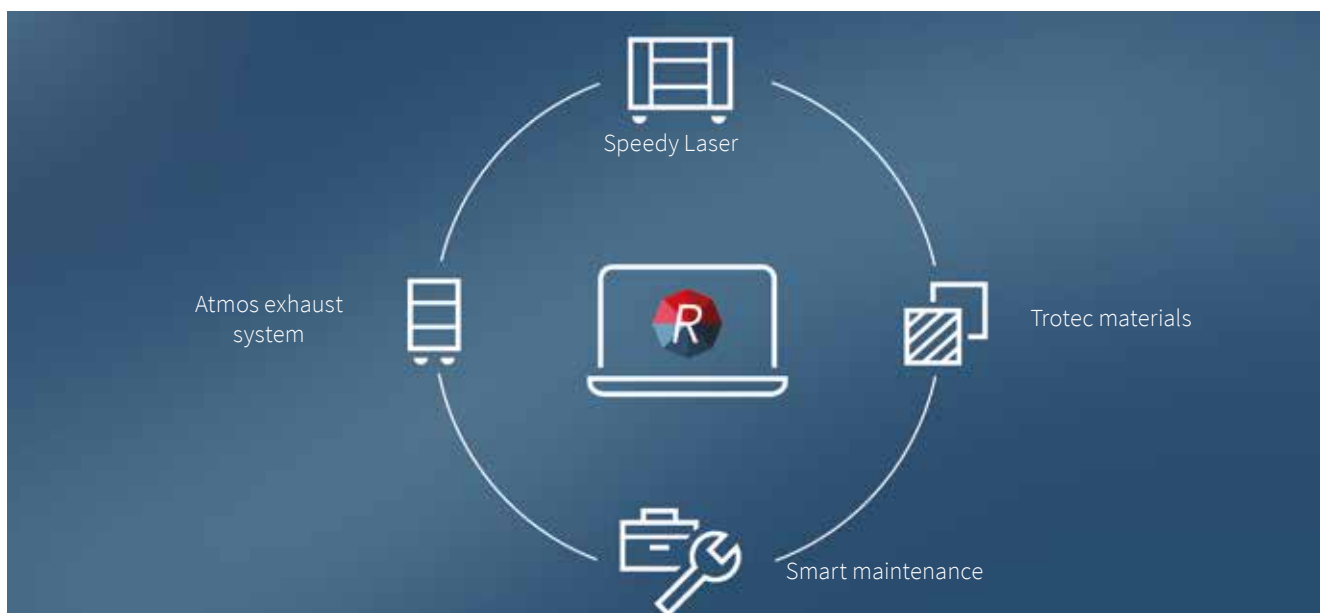
Our Ruby® laser software ensures seamless connectivity and compatibility, making design import and transmission swift and efficient from anywhere and with any device.

## Unlock efficiency with a connected solution

Speedy laser machines stand out as the fastest in the market, with emphasis extending beyond mere engraving speed to overall process efficiency. Our laser software, Ruby®, is the central hub for unleashing the full potential of your Speedy laser equipped with our smart electronics.

Ruby® seamlessly connects Speedy laser machine, exhaust unit Atmos, laser materials, service, and support into a cohesive system, facilitating intelligent monitoring and optimized production.

**A connected solution:  
smart production - smart monitoring - smart maintenance**



Get measurement data, such as filter saturation or machine errors on the screen.



Find out when the filter needs to be replaced and order in good time.



Benefit from maximum machine availability through strategic job management.



Automatically set exhaust power for each material for optimum results.



Setting the optimum exhaust power prolongs the lifetime of your laser and saves cost.



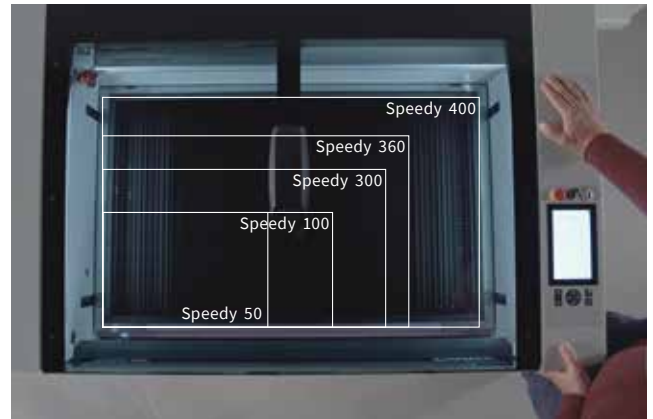
Get machine information like interlock status and laser position, even when working remotely.

Choose Speedy to enhance your laser cutting and engraving operations with precision, productivity, and a complete business solution. Elevate your work with Trotec Speedy.

# Speedy Series

All machines in the Speedy series come equipped with InPack-Technology™ and our advanced laser software, Ruby®.

Speedy systems are available with a CO<sub>2</sub> RF laser (wavelength 10600 nm) or as Speedy Flexx, which includes an additional fiber laser with a wavelength of 1060 nm. Speedy 50 and Speedy 100 are exclusively available with a CO<sub>2</sub> laser.



[products.troteclaser.com/speedy-laser](https://products.troteclaser.com/speedy-laser)



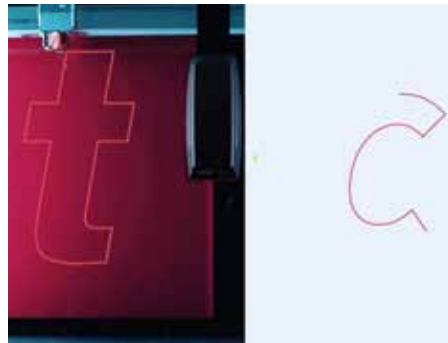
	Speedy 400	Speedy 360	Speedy 300	Speedy 100	Speedy 50
Working area (W x D)	1016 x 610 mm 40 x 24 in	813 x 508 mm 32 x 20 in	726 x 432 mm 29 x 17 in	610 x 305 mm 24 x 12 inch	457 x 305 mm 18 x 12 in
Laser power CO <sub>2</sub>	80 – 120 W	80 – 120 W	50 – 120 W	30 - 80 W	30 W
Laser Power Fiber	30 - 50 W	30 - 50 W	30 W	-	-
Max. engraving speed	4,32 m/s 170 ips	3,55 m/s 140 ips	3,55 m/s 140 ips	2,8 m/s 110 ips	1,5 m/s 59 ips

# What are the benefits of a Speedy laser machine?



## Connected Solution

Utilize our laser software Ruby®, to seamlessly integrate Speedy laser, Atmos exhaust systems, Trotec materials, and maintenance services into an intelligent solution. Enhance application outcomes and maximize operational efficiency.



## 8x Faster Cutting

Glide effortlessly along curves with OptiMotion™. It adjusts cutting speed automatically, ensuring precise contour accuracy and high productivity, ideal for cutting thin materials like foils and vector marking.



## Durability Meets Quality

Achieve uniform engraving and intricate details with superior power stability and a fine laser spot. Our patented CeramiCore® laser source ensures impressive durability.



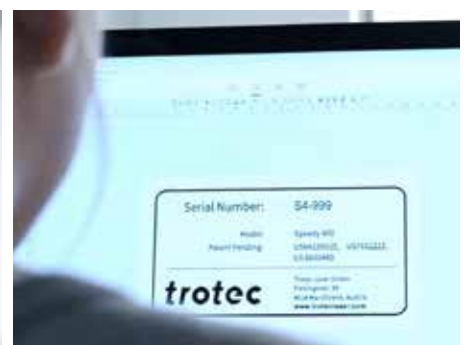
## Endless Possibilities

Our patented Flexx Technology™ combines CO<sub>2</sub> and fiber lasers, offering versatile applications. Process wood, glass, plastic, and more with just two clicks, simplifying tasks compared to other machines.



## More Engraving, Less Time

Engrave faster than ever, even with small details. The Speedy's advanced drive system and control electronics enable engraving at 4.3 m/s and 5 g, making it the fastest laser engraver on the market.



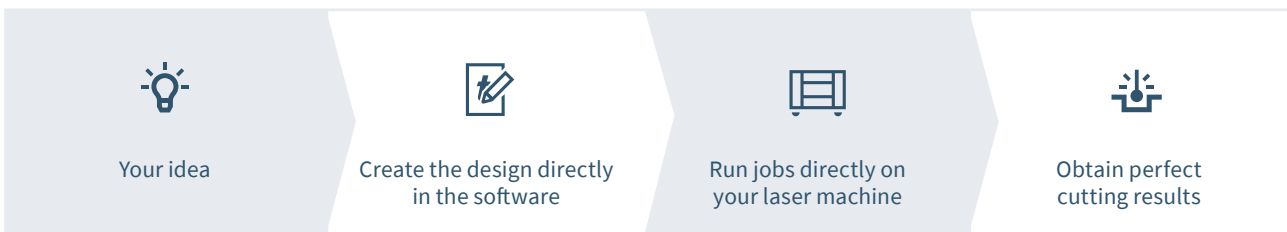
## Efficient Laser Software

Digitally at its core, Ruby ensures accessibility anytime and anywhere. It achieves compatibility with nearly every program through file importing. Additionally, Ruby seamlessly connects all devices, encompassing lasers and exhaust systems.

# Laser Efficiency with Ruby® Software

Ruby laser software is your ultimate tool for efficient laser operation. No need to open customers' layouts separately.

Drag and drop designs into Ruby, regardless of your graphic program's version. Split design and preparation from production. While the laser works on current jobs, prep the next ones. Accessible from PC, Mac, tablet, or mobile, whether you're right by the machine or anywhere within your network.



## Compatibility and connectivity

Ruby ensures digital accessibility at all times, seamlessly connecting various devices, such as lasers or exhaust systems, and is compatible with nearly every program through file importing.

### Your benefit:

- Efficient working with seamless connectivity: All users can work simultaneously anytime and anywhere.
- Increased productivity and streamlined workflows: Files from programs like Illustrator can be uploaded without owning the program.
- Saves time, money, and relieves worries.
- Seamless automation of processes: Importing CSV files for automatic template filling speeds up production and standardizes results.

## Anybody can use the laser

Simple laser access, seamless collaboration, file uploads without program ownership, Ruby® saves time and money, with automated processes boosting production speed and standardizing results.

### Your benefit:

- User-friendly interface: Simple and intuitive, reducing training needs for accessibility by anyone.
- Streamlined operations: One program, one efficient process, eliminating the need for printer drivers and enabling direct graphic operations.
- Simplified workflow for all users: No expertise required from file preparation to production for both laser owners and their customers.
- Enhanced security: User activity tracking and prevention of unauthorized alterations.



[products.troteclaser.com/ruby](https://products.troteclaser.com/ruby)

# Full package from machine to service

Choose Trotec, and you're selecting more than a laser machine. We offer a full solution, encompassing laser software, exhaust systems, materials, training, service, and support – all aimed at ensuring your immediate profitability.



## Ruby® Laser Software

Efficiency is at your fingertips with Ruby® laser software. Accessible from PC, Mac, tablet, or mobile, whether beside the machine or anywhere on your network. Ruby® simplifies laser job management.



[products.troteclaser.com/ruby](https://products.troteclaser.com/ruby)



## Quality Materials

Explore our extensive range of laserable materials, gifts, and accessories, all rigorously tested to guarantee superior laser processing outcomes. We handle material testing – you concentrate on your business and customers.



[products.troteclaser.com/laser-materials](https://products.troteclaser.com/laser-materials)



## Efficient Exhaust Systems

For premium engraving and cutting results, dust and fumes must be effectively removed. Our specially designed exhaust systems perfectly complement Speedy lasers, delivering optimal performance.



[products.troteclaser.com/atmos-exhaust](https://products.troteclaser.com/atmos-exhaust)



## Efficient Delivery and Installation

When you purchase a Speedy from Trotec, we ensure cost-effective delivery from the nearest supplying plant, often located in your country. Installation is conducted by our local specialists, allowing you to get up and running swiftly.



[products.troteclaser.com/installation](https://products.troteclaser.com/installation)



## TroCare Service

TroCare offers comprehensive coverage for your laser. A single monthly or annual payment includes preventative maintenance, parts, and labor for repairs, ensuring your laser's longevity.



[products.troteclaser.com/trocare](https://products.troteclaser.com/trocare)

# What can you make with a Speedy?

Trotec Speedy customers, spanning diverse industries, manufacture a broad spectrum of products.

With our innovative Flexx Technology™, you can work with materials that typically require two separate machines. This empowers you with unparalleled flexibility and a wide range of application possibilities.



Engrave glasses or bottles with logos, names, icons and many other designs



Produce interior signage from printed acrylic



Add value to paper books with fine detail engraving and cutting



Finish leather items with a personal message or branding



Manufacture typeplates using anodized aluminum or other materials



Make more money with creative badges or signs



Directly engrave boggles or mugs without pastes or spray



Use Speedy for engraving on slate, marble and many more



Create impressive effects on wooden packages



# What materials can you engrave, cut or mark?

The system can process cutting and engraving of acrylics, woods, textiles, paper and so much more. Scan or follow the link to get the full list of materials.



[products.troteclaser.com/material-list](https://products.troteclaser.com/material-list)

	Engrave	Cut	Mark
Acrylics	✓	✓	
Glass	✓		
Plastic sheets	✓	✓	✓
Leather	✓	✓	✓
Paper	✓	✓	
Plastics	✓	✓	✓
Stone	✓		
Textiles	✓	✓	
Wood	✓	✓	
Metal			✓



Cut or engrave textiles like leather, faux leather, felt and many other textiles.




Benefit from high processing speeds on promotional items.





Offer engraved signs using Speedy with Trotec materials




# More features, options and accessories of Speedy


 **Exhaust systems:** Trotec's Atmos exhaust systems efficiently remove dust and fumes, making them the ideal companion for Speedy lasers.


 **Vision Design & Position:** For precise positioning on irregularly shaped objects or utilizing residual materials, trust Vision Design & Position.


 **Vision Print&Cut:** A camera with the ability to detect registration marks ensures the precise and efficient cutting of materials adorned with printed graphics or designs.


**flexx** **Flexx technology :** Our patented Flexx Technology™ combines CO<sub>2</sub> and fiber lasers in one machine, enabling the processing of diverse materials in a single operation.

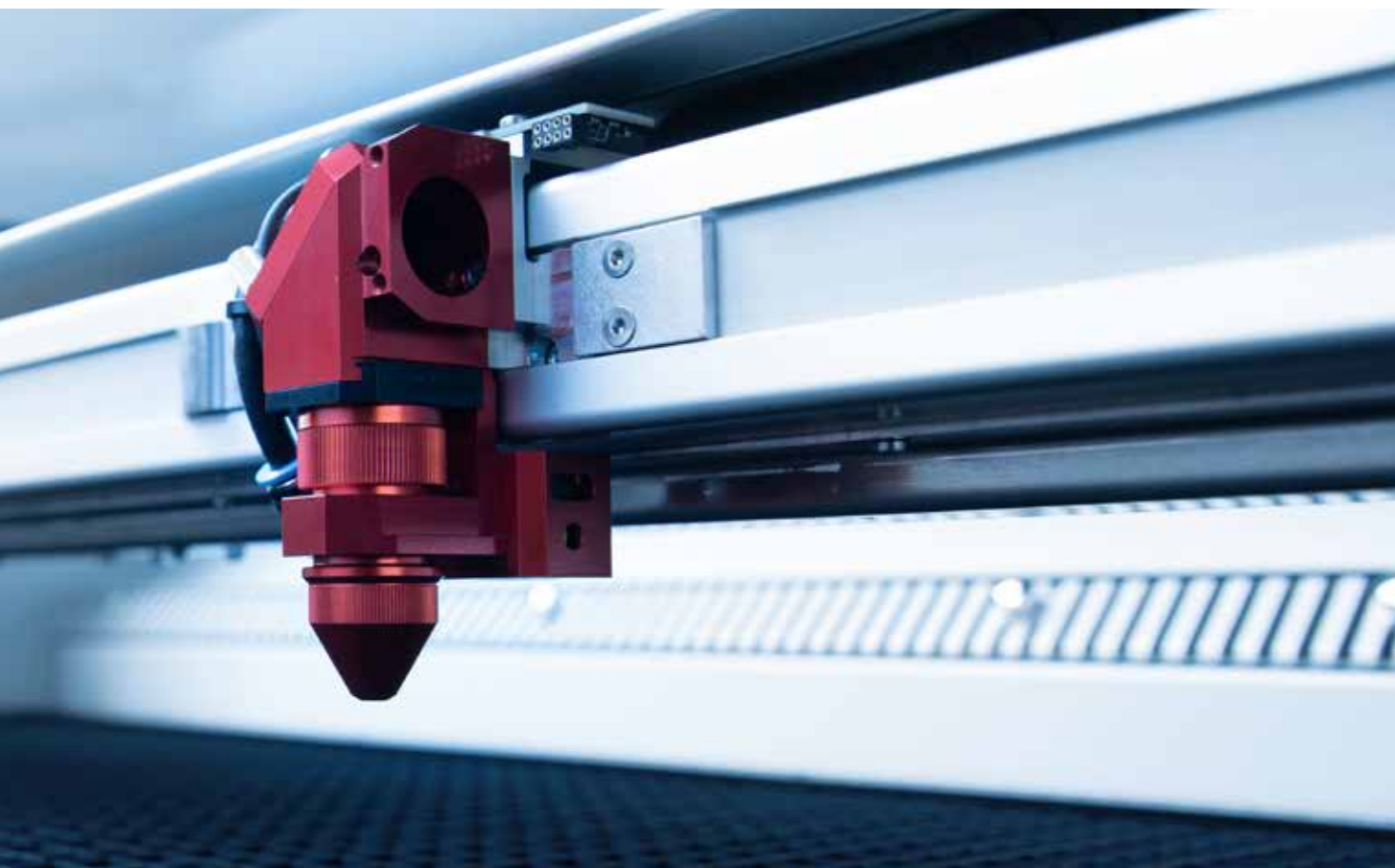
 **Multifunctional table concept:** Speedy comes with various tables to ensure optimal engraving and cutting results.

 **InPack-Technology:** Developed to safeguard sensitive machine components (axis, laser head, optics, lenses) from dirt and dust, ensuring years of trouble-free operation even under heavy use.

 **Different focus lenses:** Choose from a variety of focus lenses based on your application needs.

 **Rotary engraving equipment:** Achieve precision on cylindrical, round, or conical objects with our rotary engraving attachment.

 **CeramiCore laser source:** Our patented laser source concept ensures reliability, high engraving quality, and longevity with a resonator body made of 100% ceramic.



- Pass-through:** Effortlessly engrave or cut long and bulky parts and boards.
- Laser power upgrade:** Upgrade any Trotec flatbed laser machine to a higher laser power at any time.
- Laser pointer:** The laser pointer indicates the exact impact point of the laser beam on the material with a red dot.
- Automatic focusing:** With a simple button press, the ultrasonic sensor on the laser head detects the workpiece's surface.
- Temperature sensor:** In case the engraving compartment's temperature exceeds a critical level, the laser signals the operator with a warning sound.
- Gas kit:** Enhance cutting results on materials like wood by adding compressed air.
- Air assist:** The integrated pump protects the lens by preventing dust from adhering to it.
- Optimum footprint:** A perfect balance between machine size and work area, delivering more flexibility while requiring less space.
- CE certificate:** Our machines meet all official requirements, ensuring safe operation.
- HDLR technology:** Thanks to HDLR - High Dynamic Laser Range - Technology™, the smallest details and letters remain laser-sharp even at full speed.
- Touch panel:** Use the computer for job preparation; the touch panel is dedicated to working through the job list.

# Overview



	Speedy 400 Run on Ruby® CO <sub>2</sub>	Flexx
Working area (W x D)	1016 x 610 mm   40 x 24 in	
Max. height <sup>1</sup> of workpiece	305 mm   12 in	
Loading area (W x D)	1096 x 698 mm   43 x 27 in	
Overall dimensions (W x D x H)	1428 x 952 x 1073 mm   56 x 39 x 42 in	
Max. processing speed	4.32 m/s   170 ips	
Max. acceleration	50 m/s <sup>2</sup>   1969 ips <sup>2</sup>	
Technology motion system	Brushless DC servo motors	
Laser power CO <sub>2</sub>	80 - 120 W	80 - 120 W
Laser power fiber		30 - 50 W
Laser class	2	
Weight <sup>2</sup>	Approx. 295 – 310 kg   650 - 684 lbs	Approx. 335 – 350 kg / 739 - 772 lbs
Power consumption	1~230V / 50/60Hz / 10.2 A 1~115V / 50/60Hz / 15.3 A	
<b>Software</b>		
Ruby®	●	●
Trotec Vision	○	○
<b>Functions and Options</b>		
InPack Technology™	●	●
Smart electronics	●	●
OptiMotion™	●	●
Sonar Technology™	●	●
HDLR Technology™	●	●
Touch Panel	●	●
LED lighting	●	●
Harsh environment protection kit	●	●
Air assist incl. integrated pump	●	●
2 years warranty	●	●
Trotec Vision Design & Position	○	○
Rotary attachment	○	○
Pass-through conversion kit	○	○
Gas kit light	○	○
TroCare	○	○
Trolley base	●	●
<b>Multifunctional table concept</b>		
Ferromagnetic table	○	○
Aluminum cutting grid table	●	●
Acrylic cutting grid table	○	○
Cutting table with aluminum and acrylic slats	○	○
Vacuum table	○	○
Honeycomb cutting tabletop	○	○
Acrylic cutting grid tabletop	○	○
<b>Lenses</b>		
1.5 inch CO <sub>2</sub>	○	○
2.0 inch CO <sub>2</sub>	●	○
2.0 inch CO <sub>2</sub> clearance lens	○	○
2.5 inch CO <sub>2</sub>	○	○
2.85 inch flexx		●
3.2 inch fiber		○
4.0 inch CO <sub>2</sub>	○	○
4.0 inch CO <sub>2</sub> clearance lens	○	○
5.0 inch fiber		○
<b>Compatible exhaust systems</b>	Atmos Pure 600	Atmos Pure 600

● Standard

○ Optional

1 Depending on lens

2 Depending on laser power

For further details, please refer to the technical data sheet





Speedy 100

CO<sub>2</sub>



Speedy 50

CO<sub>2</sub>

Working area (W x D)	610 x 305 mm   24 x 12 in	457 x 305 mm   18 x 12 in
Max. height <sup>1</sup> of workpiece	170 mm   6.7 in	141 mm   5.5 in
Loading area (W x D)	690 x 305 mm   27 x 12 in	510 x 380 mm   20 x 15 in
Overall dimensions (W x D x H)	1018 x 784 x 1004 mm   40 x 31 x 18 in	726 x 447 x 672 mm   29 x 18 x 27 in
Max. processing speed	2.8 m/s   110 ips)	1.5 m/s   60 ips
Max. acceleration	40 m/s <sup>2</sup>   1575 ips <sup>2</sup>	35 m/s <sup>2</sup>   1378 ips <sup>2</sup>
Technology motion system	Brushless DC servo motors	Brushless DC servo motors (X axis)
Laser power CO <sub>2</sub>	30 - 80 W	30 W
Laser power fiber		
Laser class	2	2
Weight <sup>2</sup>	Approx. 95 kg / 209 lbs	approx. 53 kg / 117 lbs
Power consumption	1 ~ AC 110-230V 50/60Hz, 0.9 kW - 1.3 kW	1 ~ AC 110-240V 50/60Hz, 800 W
<b>Software</b>		
Ruby <sup>®</sup>	●	●
Trotec Vision		
<b>Functions and Options</b>		
InPack Technology™	●	●
Smart electronics	●	●
OptiMotion™	●	●
Sonar Technology™		
HDLR Technology™		
Touch Panel	●	
LED lighting	●	
Harsh environment protection kit		
Air assist incl. integrated pump	●	●
2 years warranty	●	●
Trotec Vision Design & Position		
Rotary attachment	○	○
Pass-through conversion kit		
Gas kit light		
TroCare	○	○
Trolley base	○	○
<b>Multifunctional table concept</b>		
Ferromagnetic table	●	●
Aluminum cutting grid table		
Acrylic cutting grid table		
Cutting table with aluminum and acrylic slats		
Vacuum table		
Honeycomb cutting tabletop	○	○
Acrylic cutting grid tabletop		
<b>Lenses</b>		
1.5 inch CO <sub>2</sub>	○	○
2.0 inch CO <sub>2</sub>	●	●
2.0 inch CO <sub>2</sub> clearance lens		
2.5 inch CO <sub>2</sub>	○	○
2.85 inch flexx		
3.2 inch fiber		
4.0 inch CO <sub>2</sub>		
4.0 inch CO <sub>2</sub> clearance lens		
5.0 inch fiber		
<b>Compatible exhaust systems</b>	Atmos Cube Atmos Pure 300	Atmos Cube Atmos Pure 300

● Standard

○ Optional

1 Depending on lens

2 Depending on laser power

For further details, please refer to the technical data sheet

# About Trotec

Leading international developer and manufacturer of laser machines.

## Home of all laser users

Our vision is to be a “home” for all laser users. A place where you get technology, opportunities, guidance and – above all – answers. Along the way, we’re making work simpler, faster and more profitable for laser users. We’re setting new standards. Day after day. To be successful today and tomorrow.



+650

Employees worldwide



16

Subsidiaries



1997

founded



113

Distributors



51

Showrooms



161 M €

Turnover 2022

## Where you can find us worldwide.

Our extensive range of first-class laser engravers, laser cutters and laser markers and the large portfolio of laser materials paired with an unrivaled service have made Trotec the technology leader in the industry.

We have 16 sales offices, more than 50 showrooms and 113 sales partners worldwide. Our machines are currently used in more than 90 countries around the world. Wherever you are, we’re close by.



[products.troteclaser.com/about-trotec](https://products.troteclaser.com/about-trotec)

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