rayjet

R Series

Simply Laser Cutting

- Working Area up to 1300 x 900 mm
- 100 – 120 Watt CO_2 DC laser, 60 Watt CO_2 RF laser
- Cutting and engraving of acrylic, wood up to 15 mm, textiles, paper and many more
- Engineered and built by Trotec Laser

It is your perfect laser cutter for all standard sheet sizes up to 1300 x 900 mm. Cutting and engraving of acrylics up to 15 mm, wood up to 15 mm, textiles, paper and much more. Cut and engrave signs, gifts, toys, models, prototypes and any kind of decoration and fashion items. The R Series has been engineered and build by Trotec, one of the world's leading manufacturers of laser machines, to meet all your needs at an affordable price. Simply Laser Cutting: Powerful, fast, clean and safe.

Affordable and reliable

The R series was developed by Trotec to meet all your laser cutting and engraving needs at an affordable price. This is made possible by the DC glass technology. The robust mechanics and reliable electronics have already proven themselves in thousands of Trotec laser machines. All of our machines meet strict production requirements and European manufacturing standards.

Easy access and ergonomic design for maximum usability

The extraordinarily large view of the inside of the laser working area makes working with the R Series a pleasure. The large viewing pane enables you to see your job progress at a glance, even from a distance. The ergonomic and open design of the R Series makes positioning jobs a simple task and guarantees efficient user operation.

Earn money from day one: be up and running within minutes

The Ruby® laser software guarantees a simple and quick workflow from the idea to the finished product. Graphic editing and laser control in one software. No time-consuming printer-driver workflow. Our „one click setup" enables you to be up and running within minutes. The built-in material database makes you efficient from the first day. Delivering the shortest possible time from unboxing to make money.

Austrian Engineering & Quality Standards

R Series is developed by Trotec. We comply to stringent production procedures and European manufacturing standards. The R500 and R400 laser cutter are both equipped with high quality components: a Trotec laser system controller, industrial grade power supplies and linear guides. The robust mechanical and reliable electronic design is proven in thousands of Trotec laser machines.

Ruby® - Laser Software Redefined

The Ruby® laser software was developed to be easy to use and highly efficient for beginners and experienced users. Benefit from a simple and quick workflow from the idea to the finished product. Ruby® is platform- and client-independent – be it Windows, Linux, Mac or other operating systems. Prepare jobs from anywhere with any device within the same network and share designs with other laser users.

Comply to all health and safety regulations

CE-certified based on: Safety of machinery IEN 60204-1, Safety of laser products IEC 60825-1/-4/-14, IT equipment EN 55022, 55024, Low-voltage switchgear and controlgear assemblies IEC 60439-1.

Highest safety standards

Protect yourself and your laser users with laser class 2, double interlock system and laser safety shutter system. Stay safe in any critical situation with built-in safety kill- and key-switch

Application Examples

Creative indoor sign made of TroLase

Shiny, flame polished cutting edges of Acrylic up to 15 mm

Clean and perfectly sealed laser cut edges of leather incl. engraved details

Precisely and cleanly cut cardboard shape

Laser engraved drinking glasses with rotary device

Precisely cut construction kit wooden plane

Durable and individual dataplates

Clean paper finishing and finest contours

What Do You Want to Engrave or Cut?

Material	Cut	Engrave
Wood	●	●
Glass		●
Paper white	●	●
Paper colored	●	●
Cardboard	●	●
Leather	●	●
Textiles	●	●
Mirror		●
Stone		●
Ceramics		●
Cork	●	●
Food	●	●
Metals		
Aluminum*		●
Aluminum anodized		●
Precious metals*		●
Titanium*		●
Stainless steel*		●
Coated metal (varnished)		●
Brass*		●
Copper*		●

Plastics	Cut	Engrave
Acrylonitrile butadiene styrene copolymer (ABS)	●	●
Acrylic (PMMA)	●	●
Rubber (laser rubber)	●	●
Polyamide (PA)	●	●
Polybutylene terephthalate (PBT)	●	●
Polycarbonate (PC)	●	●
Polyethylene (PE)	●	●
Polyester (PES)	●	●
Polyethylene terephthalate (PET)	●	●
Polyimide (PI)	●	●
Polyoxymethylene (POM) e.g. Delrin®	●	●
Polypropylene (PP)	●	●
Polyphenylene sulfide (PPS)	●	●
Polystyrene (PS)	●	●
Polyurethane (PUR) foam	●	●
Foam (PVC free)	●	●

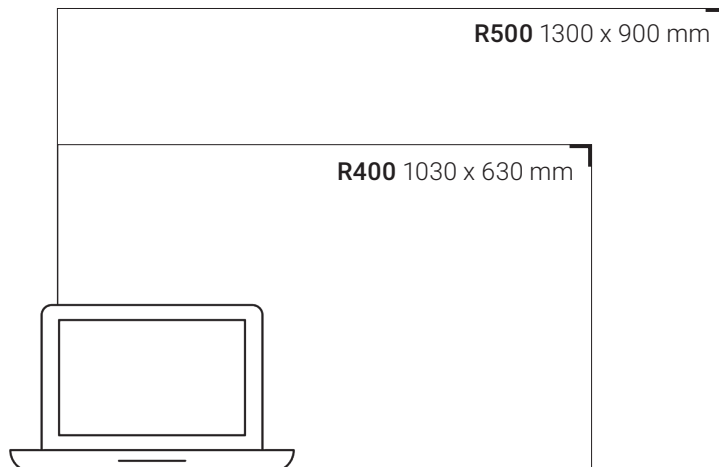*** Consumables required (e.g. laser marking ink)**

What our customers say

"The R500 laser cutter from Trotec has opened up new artistic opportunities and creative ideas for us, increasing the time our designers can spend to develop their ideas. The increase in productivity has meant we can grow the business and take on more clients." **Ger Clancy - Art FX, Ireland**

"I am very happy with my R500; it has allowed us to develop new products and improve our current production process." **Eliseo Nava - Outlet Medica, Mexico**

"I wanted to laser cut and make things as soon as possible. With the support of Trotec I was able to use the R500 on the day of delivery". **Jahua Oosterveen – Lasergun Design, The Netherlands**

"The support from Trotec is particularly outstanding. From the demonstration to the installation and even after the sale, I feel optimally supported." **Sabella Tilley - Treetop Treasures, UK**
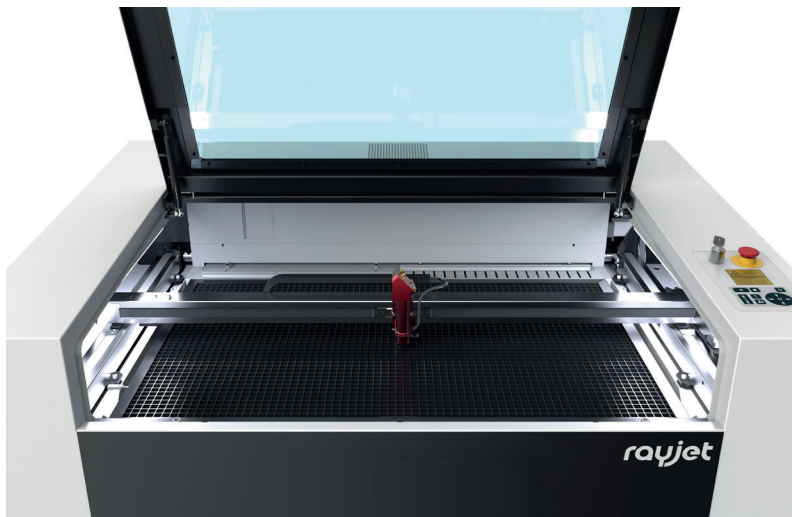
Which Model is Right for You?

R500 1300 x 900 mm

R400 1030 x 630 mm

Reference Size
15.6" Notebook

All you need

Our R Series laser machines are suitable for all standard sheet sizes up to 1300 x 900 mm. We are here to help you choose the best affordable laser machine for your business.

	R400	R500
Working area	1030 x 630 mm	1300 x 900 mm
Laser power DC	100 W CO_2 water-cooled	120 W CO_2 water-cooled
Max. processing speed	1 m/s	1 m/s
Laser safety	CDRH laser safety, laser class 2, CE compliant, double interlock safety system, kill and key switch	
Machine size (W x D x H)	1550 x 1080 x 1080 mm	1870 x 1700 x 1110 mm
Weight	approx. 300 kg	approx. 570 kg
Power consumption laser machine	100 - 250V, 1200 W	100 - 250V, 1100 - 1500 W
Power consumption chiller	900 W	900 W
Software	Ruby® laser software	
Z-axis	electrical	manual
Features standard	OptiMotion™, InPack Technology™, kill and key switch, LED light, air cooled optics, laser pointer, coaxial air assist, servo motors, 2.0" lens, nozzles (Ø 3mm and Ø 7 mm), aluminum cutting grid table, water chiller	
Options	Rotary attachment Aluminum slat cutting table 4.0" lens External laser power controller Vent set with 1 fan	Aluminum slat cutting table 4.0" lens External laser power controller Vent set with 2 fans

Aluminum Cutting Grid Table*

This cutting table is the perfect solution for all general cutting tasks. It is suitable for a variety of cutting tasks with parts smaller than 100 mm, as these remain in a flat position after the cut.
* Basis configuration

Aluminum Slat Cutting Table

This table is perfectly suited to laser cutting thicker materials (8 mm thickness) and for parts wider than 100 mm. Lamellas can be individually placed, allowing the table can be adjusted to each individual application.

Global coverage and local service – always close to you

Wherever in the world you are – we are near you. With more than 60 Trotec operated locations in 17 countries, we have the largest service network in the industry. Furthermore, our distributor network counts over 110 partner companies worldwide. All of them meet the Trotec service and knowledge requirements.

Your Trotec Advantages

- Training
- Advice
- Materials
- Solutions
- Quality
- Service

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