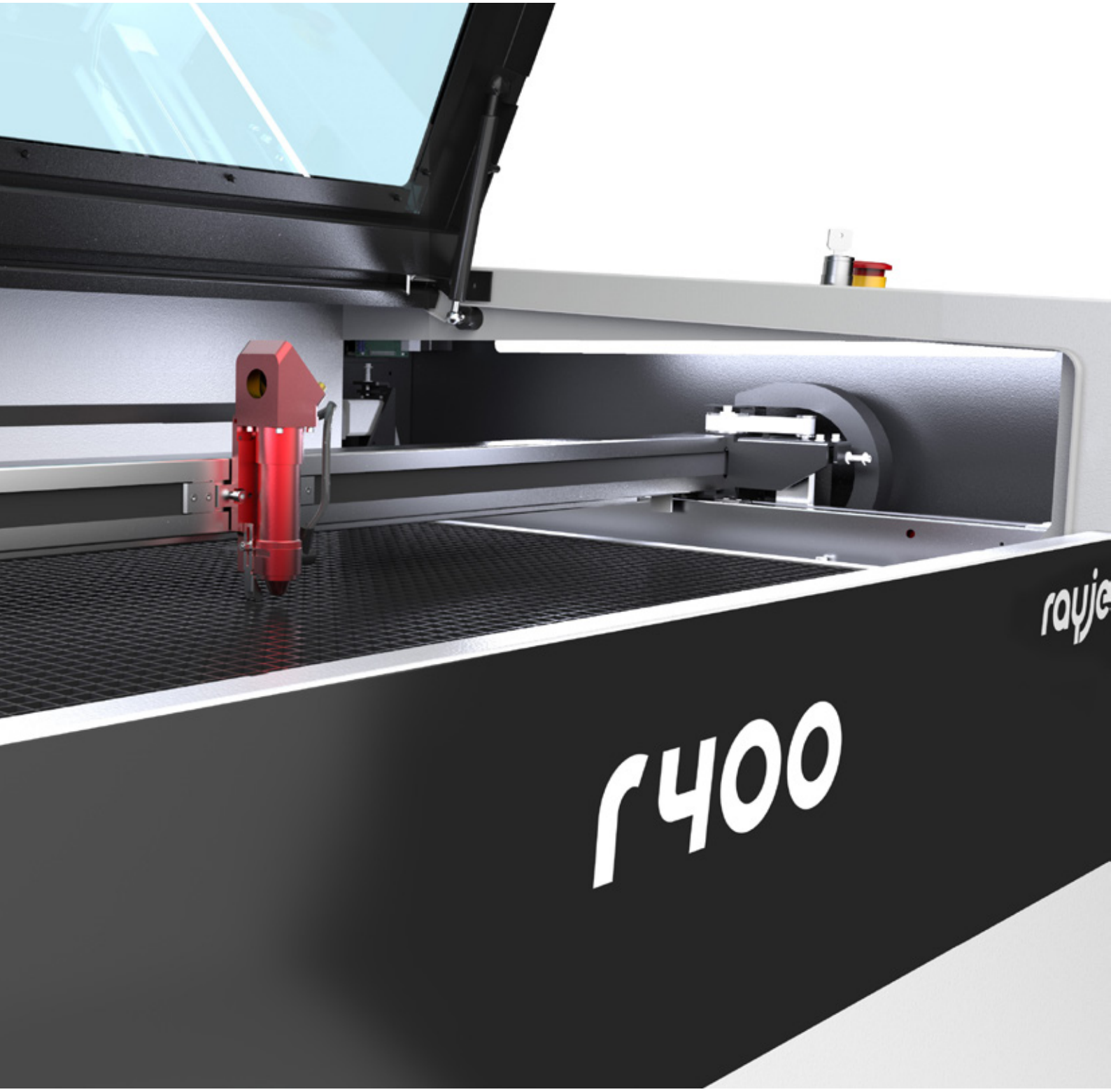
rayjet

# R Series

## Simply Laser Cutting

- Working Area up to 1300 x 900 mm
- 60 – 120 Watt $CO_2$ DC 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.

## 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

With the Rayjet® Manager software, which is based on Trotec's industry leading software concept, files are sent from all graphics and CAD-programs directly to the laser cutter, compatibility guaranteed. With both the software and the controller developed by Trotec, the motion and laser processes are perfectly in-tune for maximising the system's performance. 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
Powered by Trotec

trotec

## 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.

CE

## 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.

## est safety standards

Protected 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 | | |
| | | |

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

| 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) | ● | ● |

## 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, Dublin**

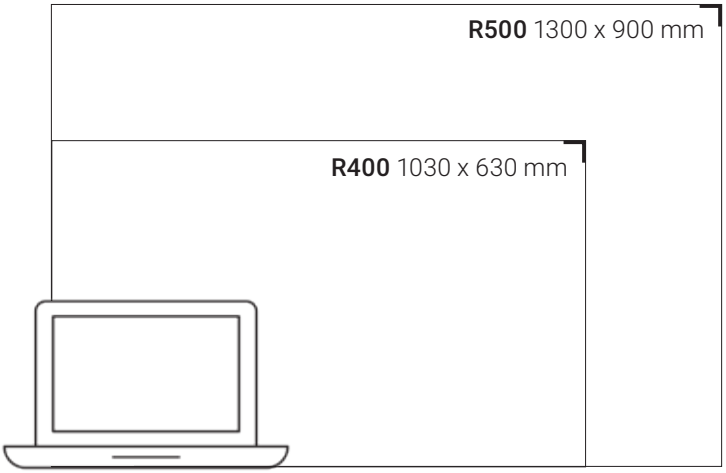
"I am very happy with my R500; it has allowed us to develop new products and improve our current production process."

**Eliseo Nava - Outlet Medica, Mexico City**

"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, Rotterdamm**

# Which Model is Right for You?

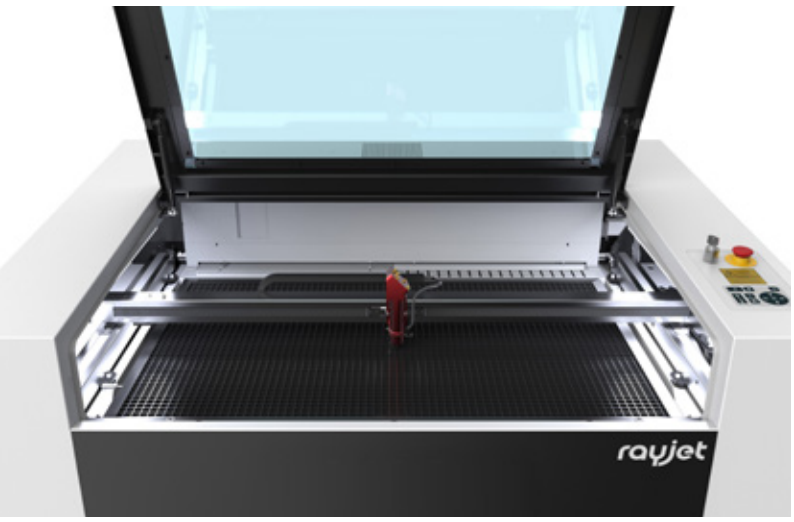



Reference Size
15.6" Notebook

## 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 | Sealed-off $CO_2$ DC<br>60 / 100 W | Sealed-off $CO_2$ DC<br>60 / 100 / 120 W |
| Cooling system | water-cooled | water-cooled |
| Max. processing speed | 1 m/s | 1 m/s |
| Laser safety | RayPack Technology, CDRH laser safety, laser class 2, CE compliant, double interlock safety system, kill and key switch | 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 |
| Options | Rotary attachment<br>Aluminum slat cutting table<br>4.0" lens | Aluminum slat cutting table<br>4.0" lens |




## 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 distr ibutor 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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