

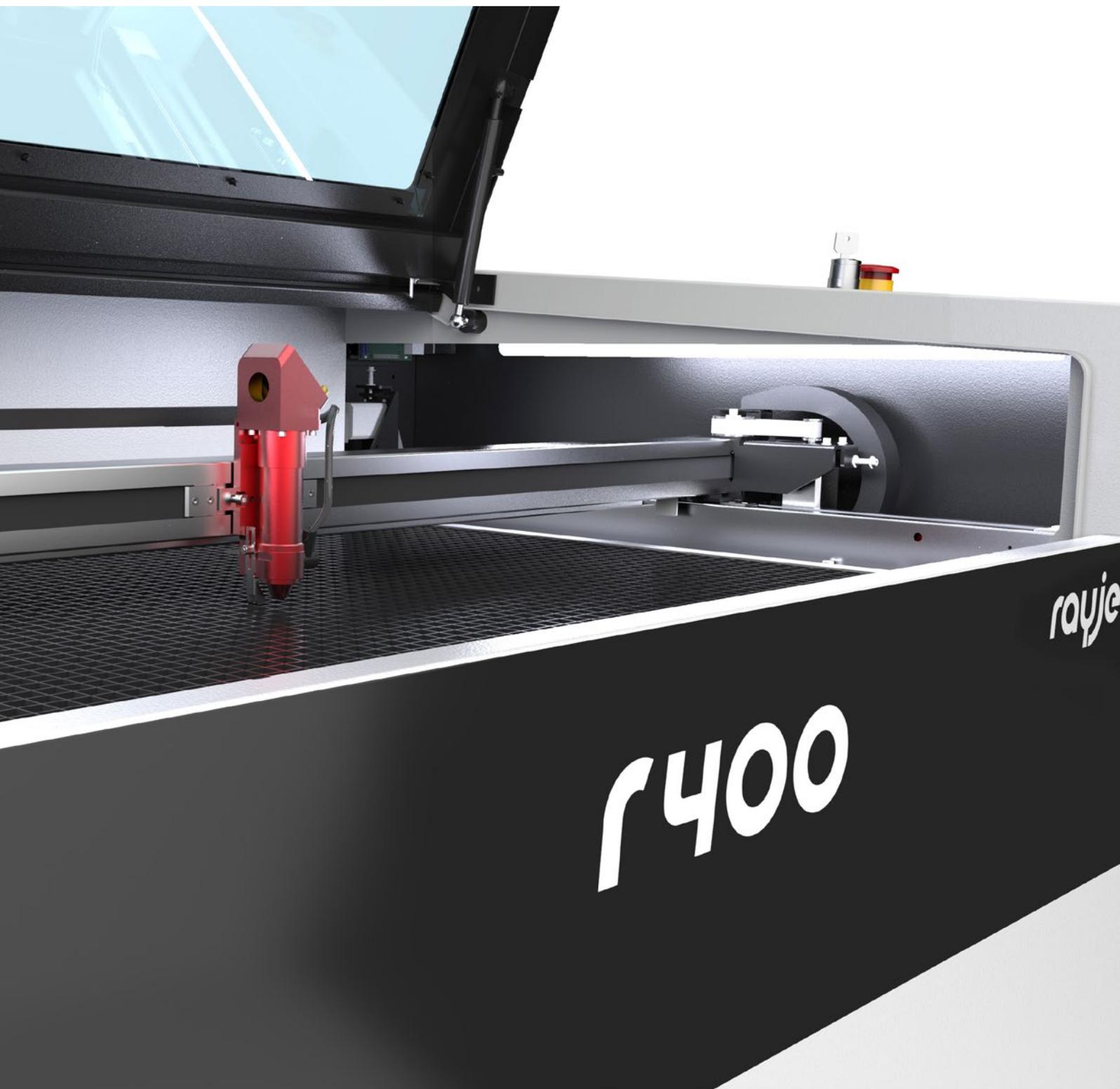
rayjet

R Series

Simply Laser Cutting



- Working Area up to 1300 x 900 mm
- 60 – 120 Watt CO₂ DC Laser
- Cut and engrave acrylic and wood up to 15 mm, textiles, paper and many more
- Engineered and built by Trotec Laser



The perfect laser cutter for all standard sheet sizes up to 1300 x 900 mm, the R series can cut and engrave acrylics and wood up to 15 mm, textiles, paper and much more. Create signs, gifts, toys, models, prototypes, decorations, fashion items and many more applications.

The R Series has been engineered and built 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 complete interior view of the laser working area makes working with the R Series an easy task. The large viewing pane enables you to see your job progress at a glance even from 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: Get up and running in 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 enables efficient processing from day one, delivering the shortest possible time from unboxing to profitability.



trotec

Austrian Engineering & Quality Standards

The R Series is developed by Trotec. We comply with 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.



Compliant with 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 other laser users with a class 2 laser system, featuring a double interlock system and laser safety shutter system. Stay safe in any critical situation with built-in safety kill- and key-switch

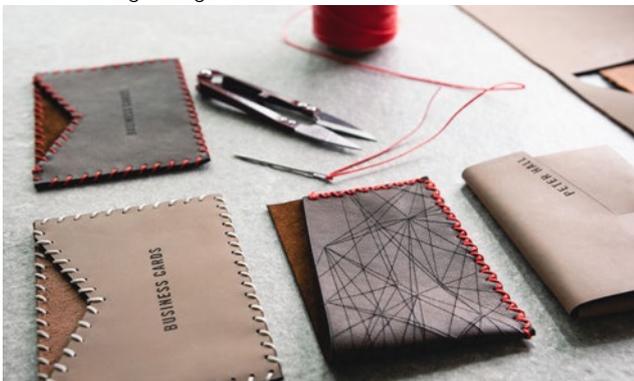
Application Examples



Professional grade indoor sign made using TroLase engraving laminate



Flame-polished effect cut edges on acrylic up to 15 mm, without extra processing



Perfectly sealed laser-cut edges on leather complete with engraved details



Precise and clean cut cardboard shape



Laser engraved drinking glasses with a rotary device



Precisely cut wooden plane model



Durable engraved aluminium dataplates



Clean paper finishing with the finest contours

What Do You Want to Engrave or Cut?

Material	Cut	Engrave	Plastics	Cut	Engrave
Wood	●	●	Acrylonitrile butadiene styrene copolymer (ABS)	●	●
Glass		●	Acrylic (PMMA)	●	●
Paper white	●	●	Rubber (laser rubber)	●	●
Paper coloured	●	●	Polyamide (PA)	●	●
Cardboard	●	●	Polybutylene terephthalate (PBT)	●	●
Leather	●	●	Polycarbonate (PC)	●	●
Textiles	●	●	Polyethylene (PE)	●	●
Mirror		●	Polyester (PES)	●	●
Stone		●	Polyethylene terephthalate (PET)	●	●
Ceramics		●	Polyimide (PI)	●	●
Cork	●	●	Polyoxymethylene (POM) e.g. Delrin®	●	●
Food	●	●	Polypropylene (PP)	●	●
Metals			Polyphenylene sulfide (PPS)	●	●
Aluminium			Polystyrene (PS)	●	●
Anodised aluminium		●	Polyurethane (PUR) foam	●	●
Precious metals			Foam (PVC free)	●	●
Metal foils					
Stainless steel					
Coated metal (varnished)		●			
Brass					
Copper					
Titanium					

* 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, Dublin

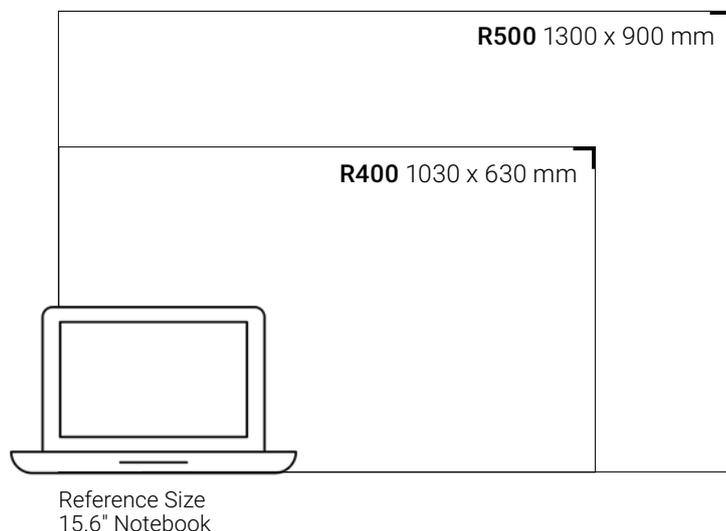
"I am very happy with my R500; it has allowed us to develop new products and improve our current production process."

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, Rotterdam

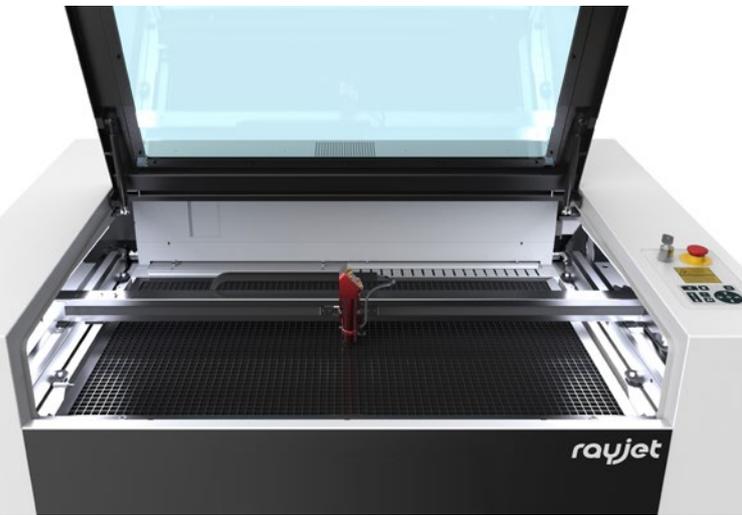
Which Model is Right for You?



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 requirements.

	R400	R500
Working area	1030 x 630 mm	1300 x 900 mm
Laser power	Sealed-off CO ₂ DC 60 / 100 W	Sealed-off CO ₂ DC 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 Aluminium slat cutting table 4.0" lens	Aluminium slat cutting table 4.0" lens



Aluminium Cutting Grid Table*

This cutting table is the perfect solution for all general cutting tasks. It is suitable for jobs with parts smaller than 100 mm, as these remain in a flat position post-processing.

* Basic configuration



Aluminium 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 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 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.

Trotec Advantages

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

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