rayjet

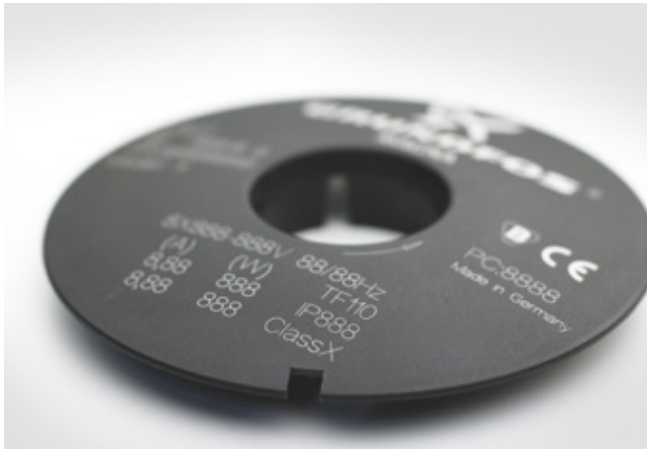
U Series

Simply laser marking

Developed for Your Needs

Precise marking - even with the smallest font sizes

Marking in recesses thanks to long focus distance



Permanent marking by color-change of plastics

Marking individual pieces

With the laser markers of the U series you can mark individual single pieces as well as small and medium batches quickly and easily. Thanks to the maintenance-free fiber laser source, plastic can be recolored and metal permanently marked directly - without the use of sprays or pastes.
No matter if data matrix codes, serial numbers or smallest fonts - with the Galvo Markers engravers, job shops and machine builders are able to easily mark components, type plates or tools - even in hard-to-reach areas. The permanent marking of max. 190 x 190 mm enables complete traceability. Advertising materials such as pens or USB sticks are individually marked with logos or names.

Both models of the U series are optimized for manual feeding and convince by their compact design. The U300 is a class 2 laser desktop workstation, so no safety precautions are required. The U50 - an open system of laser class 4 - can be positioned at will and thus also marks larger or bulky components. Variable data - no matter whether codes, consecutive numbering or names - can be lasered onto your workpieces very fast thanks to UMark. The intuitive marking software is easy to use. The U Series products are equipped with high-quality optical elements and scanners - both components ensure precisely marked parts.
The U Series was developed by Trotec. We adhere to stringent regulations regarding production processes and European manufacturing standards. With 68 locations in 18 countries, we have the largest service and training network in the industry. In addition, our dealer network includes 113 partner companies worldwide.

U Series - Simply Laser Marking

Process dynamic data in the twinkling of an eye

The UMark software enables you to mark your information on the object in no time at all. This allows you to generate codes, import data files or graphics, and create texts.

The software also has a material database so that you can mark with the correct parameters as quickly as possible. You can also add your own parameters to this database.

Save time with bordermarking

The special highlight of the U Series is the Bordermarking function - this allows you to project the surface to be marked or even the contour onto the component at any time, position it in real time and, if necessary, correct it with a mouse click.

Best engraving quality thanks to high-quality optics

High-quality lenses and an excellent laser spot guarantee a perfect application result for your marking. This allows even the smallest details to be marked precisely.

Functions such as polishing and deep engraving ensure legibility even on demanding materials.

Independent and flexible through Ethernet

Due to the newly integrated interface, the laser can be controlled with any Windows PC. This means that you are no longer tied to the functionality of an Industrial PC's. Simply plug in and laser - you will be surprised how much time you will save!

Stay safe and productive

The marking laser works only when the door of the U300 is closed. The reason for laser class 2 is the inbuilt positioning laser that allows you to align your work materials quickly and easily. This means that no special protective devices are required - the operator can work safely at all times.

Better environments with Atmos exhaust systems

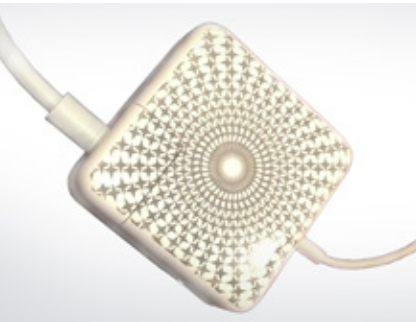
Trotec is also setting new standards with regard to exhaust systems with the Atmos model series. As the only laser manufacturer, we produce models that are optimally adapted to the respective laser machine. A suitable exhaust system ensures the safe and clean operation of your laser machine. It reliably removes dust and gases from the processing area and, with its activated carbon filters, it filters out odors that may be generated during laser processing. The Atmos exhaust system helps to deliver the best possible marking quality. We recommend the model Atmos Nano for the combined use of a U marker with exhaust system.

Applications and Materials

The laser machines of the U Series can be used to mark countless metals and plastics. In detail, plastics are re-coloured or foamed, metals (deep) engraved or surfaces polished to ensure the best possible legibility and 100% traceability.

Metals suitable for laser engraving and marking:

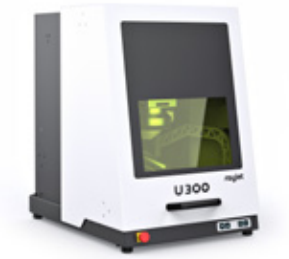
- Stainless steel
- Steel and hard metals
- Aluminum and anodized aluminum
- Precious metals
- Brass
- Copper
- Titanium and titanium alloys
- Other metals



Plastics that are suitable for laser marking:

- Polyamide (PA)
- Polycarbonate (PC)
- Polyoxymethylene (POM)
- Polyarylsulfones (PSU, PPSU)
- Polyetheretherketone (PEEK)
- Acrylonitrile butadiene styrene copolymer (ABS)
- Polyimide (PI)
- Polymethylmetacrylate (PMMA)
- Polyester (PES)
- Silicone

Technical Data



	U300 02F F160	U300 02F F254	U50 02F F160	U50 02F F254
Working area (mm)	120 x 120	190 x 190	120 x 120	190 x 190
Working distance (+/-0.2mm)			211.6	361.6
Loading area (mm)	350 x 400		-	-
Max. height of workpiece (mm)	171	22	-	-
Max. loading weight (kg)	25		-	-
Max. marking speed (m/sec)	6	9.5	6	9.5
Max. positioning speed (m/sec)	12	19	12	19
Z-axis	Software-controlled servo axis			
Door	Manual			
System requirements	Windows compatible PC at least 1GHz and Windows 7, CD-Tray			
Supported fonts	All installed TrueTypeFonts			
Supported 1D barcodes	Australian Post; Codebar; Code 11; Code 128; Code 39; Code 93; DAFT; Deutsche Post; DPD; EAN-13; EAN-14; EAN-8; GS1; HIBC; ISBN; GS1; Pharmacode			
Supported 2D codes	Datamatrix; QR-Code; Aztec; Codeblock-F; GS1 Databar; HIBC; Maxi Code; PDF 417			
Supported image formats	BMP; JPG; DXF; PDF; EPS; PS; TSF; DWG			
Interfaces	Ethernet; Laser-Interlock; Marking-Start, (24 VDC)			
Dimensions (L x D x H mm)	851 x 571 x 653		449 x 559 x 177	
Weight	60 kg			
Weight laser rack	9 kg			

156949

Trotec Laser GmbH
Linzer Str. 156
A-4600 Wels

trotec@troteclaser.com
Tel. +43 / 72 42 / 239-7777
Fax +43 / 72 42 / 239-7380