

trotec[®]

laser. marking cutting engraving

Pulsed Fiber Laser
on Flatbed Technology

FP 100

setting
new
standards



High Performance
Marking Solutions

FP 100—The Most Productive in Its Class



FP 100—Entry-level model for marking metals and plastics

Almost every company has marking requirements—ranging from marking parts with serial numbers, barcodes or logos to applying product information. Often these activities are outsourced—and that costs time and money.

The **FP 100** equips you ideally for your entrance in to the world of direct marking metals and plastics.

The **FP 100** is a flatbed laser based on a pulsed fiber laser source. For you, the combination of these two technologies means speed, flexibility, quality and long life.



Your advantages at a glance

- **The fastest laser in its class—due to Trotec's high-speed RAMP-UP CONTROL**

The FP 100, like all Trotec products, has an optimal level of technical maturity. Thanks to its unique technology, the FP 100 is capable of a full 2 m/sec—and it can do this at maximum resolution.

- **Flexibility on all levels**

Large working surface: The FP 100 has a working surface of 610 mm x 305 mm, which is several times greater than that of classic galvo systems.

Intelligent software: Predefined parameter settings and numerous special features enhance user convenience and reduce setup times.

Wide variety of materials: The FP 100 produces optimal results on a wide variety of metals and plastics.

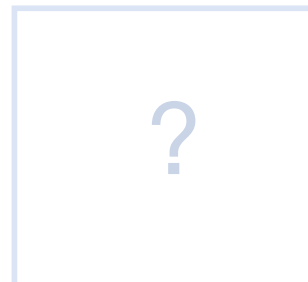
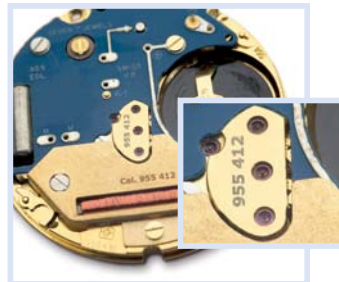
- **Cost efficiency from the first minute**

Excellent price-performance ratio: The FP 100 is attractive with its low purchase price and minimal maintenance expense.

Long life: Fiber laser technology and the usual low-maintenance and high quality of Trotec machines guarantee reliable operation for many years.

Low power consumption: High-speed RAMP-UP CONTROL achieves up to 5% lower power consumption.

What is Your Application?



Applications

- electronic components
- gifts and promotional objects
- type plates
- printed circuit boards
- signs
- jewellery
- tin goods
- trophies
- ... and many more

Materials

- bare metals
- coated metals
- untreated plastics
- coated plastics
- solid coloured plastics
- ... and many more

A Complete **Package** and a Host of Value Added **Accessories**

Accessories

- **Laser pointer**



The laser pointer indicates exactly where the laser beam will land on the material, ensuring precise positioning and marking.

- **Ferromagnetic working table**

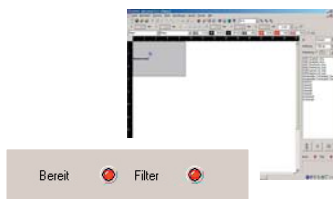
The working table is ferromagnetically treated. This means that it is easy to mount thin materials like foils, using magnetic retention.

- **InPack-Technology™**



Protects dust-sensitive components such as the mechanical components, optical elements and electronics. Consequently, the FP 100 operates practically without any maintenance expense or part wear.

- **Bi-directional communication**



Connects your PC to the FP 100 and to the exhaust system. This gives you full control of many laser functions at all times. The screen acts as a "virtual laser".

- **Variable interface**

The FP 100 may be connected to the computer via a USB or serial cable.

Options

- **Air Assist**



Adding air pressure to the processing head as needed improves suction during operation and additionally provides protection for the lens. The air assist is controlled via the Trotec *JobControl*® software.

- **Exhaust systems**



Our exhaust systems take care of the efficient removal of dust and fumes produced during laser operation and ensure the safe and reliable use of your laser for years to come. You will also be safeguarding the health of your employees and the environment.

- **Auto-focus**



Our built-in automatic focus-capabilities work in concert with the auto-focus features of our *JobControl*® software. A high degree of user friendliness is assured.

- **Supporting frame with storage bin**



Utilize the space beneath the laser system as a storage area. Important accessories, such as materials, are ready to use when needed. Helps to organize your production environment.

- **Rotary engraving device**

Engrave any cylindrical or similar objects such as goblets. Simply load and unload the product with the help of a spring-mounted tension device, which is easy to install and simple to use.

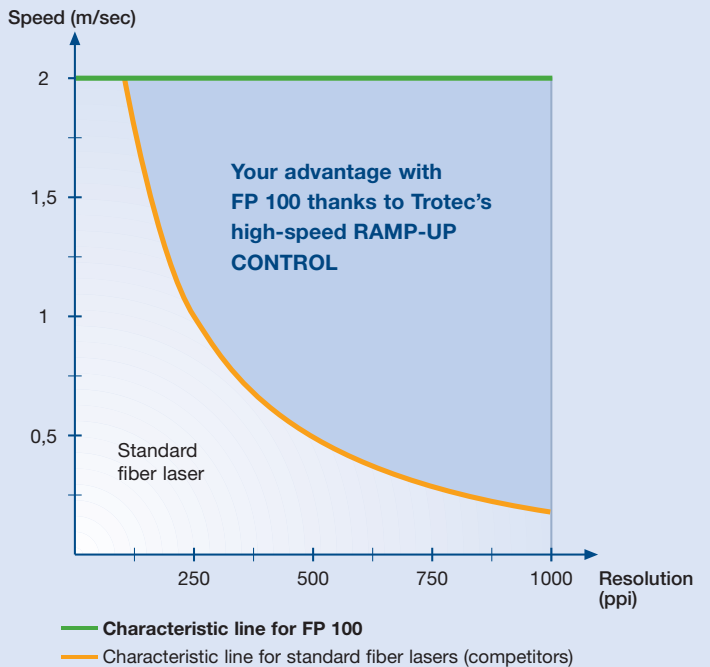
FP 100: The Technology

Regardless of how high your quality standards—the FP 100 delivers its performance at a full 2 m/sec. (green line)

This advantage is realized thanks to Trotec's unique high-speed RAMP-UP CONTROL. On the products of our competitors the speed needs to be reduced depending on the desired resolution. (orange line)



FP 100: technologically superior



• Overall dimensions (WxDxH)	974 mm x 730 mm x 457 mm 38.3" x 28.8" x 18"
• Max. working area	610 mm x 305 mm 24" x 12"
• Max. height of work piece	125 mm 5"
• Processing speed	200 cm/sec 79"/sec
• Mechanical design	Fully enclosed chassis with double safety interlock system CDRH laser safety, laser safety class 2 (incl. laser pointer) CE tested Drives with maintenance-free, brushless DC servo motors InPack-Technology™
• Laser	Pulsed fiber laser, maintenance-free, air-cooled Laser output: 10W, 20W Wavelength: 1062 nm Lens: 3,2"
• Ambient conditions	Operating temperature: +5 to +38°C, Relative humidity up to max. 90%, non-condensing

Job Control®

Smart Software for Flexible Use



Only from Trotec:

Unmatched Control of Operating Parameters

JobControl® is our unique print driver solution for managing work flow by providing more control over machine parameters, job positioning and historical data than any other system. The look and operator functionality can be modified to fit your methods of operation, not the other way around.

For additional information please refer to the "JobControl®" brochure.

JobControl®

- Change of parameters "on-the-fly"
- Material database with predefined parameters
- Software-autofocus enables precise focusing on the material surface with only one mouse click
- Marker for precise positioning even for finest engraving jobs
- Engraver protocol helps to calculate costs and plan production schedules
- Reverse engraving—reduces cleaning of the workpieces (e.g. plastic signs)
- Smoothing of outlines—perfect curves and circular paths also from CorelDraw
- Vector sorting—automatically processes vectors in optimized order
- ... and many more

A Global Presence ... with Local Support



A history of success

Trotec lasers are used in over 90 countries worldwide. With thousands of installed systems, we offer a wealth of experience and expertise in laser engraving and industrial marking. Most importantly, we have earned the trust of our many international customers.

Our Trotec service partners in over 80 countries participate in training programs on a continuous basis—so we can always offer the highest level of professional maintenance services for your Trotec laser system.

In addition, our **JobControl**® software offers the unique opportunity to evaluate the status of your laser installation via remote maintenance and diagnostics in real time, so we can always guarantee maximum reliability and availability for your business success—both now and in the future.

A commitment to your satisfaction

Our goal is to pursue constant, user-oriented innovation. We are committed to always providing you with the perfect product for all of your marking application needs.

That's why we are committed to really knowing and understanding both the market, and our customers. As such, we invest continuously in product development and market research at our state-of-the-art application labs.

With smart devices, a motivated team of experts, and renowned customer service, we can consistently provide you with top-quality, leading-edge laser solutions at a competitive price.

Key questions to ask before making a laser purchase:

- **Will the laser system meet your quality standards and be as productive as you need it to be?**

Compare production time and quality of identical jobs. A larger job will better demonstrate differences in productivity than a smaller job. Smaller characters and intricate details will demonstrate differences in quality.

- **Does the laser device have an enclosed safety system?**

Make sure that the machine is CDRH Class 1 or 2. The machine can then be operated safely without any special precautions. It also means that vapors and dusts can be exhausted directly from the processing space. This ensures a clean work place and maximum safety for the operator.

- **What components are used?**

Above all, look at the motors and mechanisms. High-quality components guarantee perfect engraving results over a long period of time.

- **Who takes care of installation, training and service?**

Make sure that a local contact is available. Then you can be sure that installation, training and service will proceed quickly and cost-effectively for you.



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