

For special tasks and challenges

→ Customized systems and engineering by Trotec



The right solution for every task:
Customized concepts for the most demanding
requirements in industrial and commercial
applications

→ First-class laser system solutions to make you more profitable.



→ Since its establishment in 1998, Trotec's mission has been to make companies more profitable in a wide variety of industrial and commercial fields through user-friendly laser technology. As innovation and technology leaders, we gear our laser solutions consistently to the needs of our customers. All standard devices are developed in Austria and built using high-quality components. Trotec offers a wide product portfolio of laser plotters and galvo marking lasers, as well as the matching software packages, and with our offices in 18 countries and our global sales and service partners, we serve customers everywhere in the world. Thousands of installed systems demonstrate our customers' confidence and set new standards in their fields of application.

→ Customized machines and automated systems for special tasks

→ Special tasks where a standard device does not provide the required functionality are taken care of by the specialist team of Trotec Laser Automation in Markdorf, Germany, which has been developing, designing and implementing automation concepts and special laser systems for over 25 years.

The customer's requirements are precisely analyzed, and, whenever possible, tried and tested Trotec standard devices are supplemented with individual automation modules such as sorting systems or conveyor belts. If necessary, individual systems or integration into existing production processes can be implemented as well. Unnecessary development times and costs are avoided, and projects completed in time. Thus, in three process and analytical steps we quickly achieve your individual laser system solution in cooperation with you. One contact person takes care of all process steps and the individual project components and is always available to you. Thus, Trotec sets new standards in special system production as well.

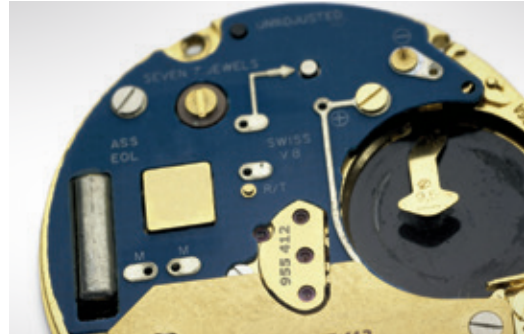


→ Countless applications – one tool

High-speed laser marking for industrial applications



Marking of medical instruments and implants



High-precision marking in the watch industry



Durable tool marking



Automatic serial number and code generation by means of included software



Laser engraving and cutting of special films in mechanical engineering



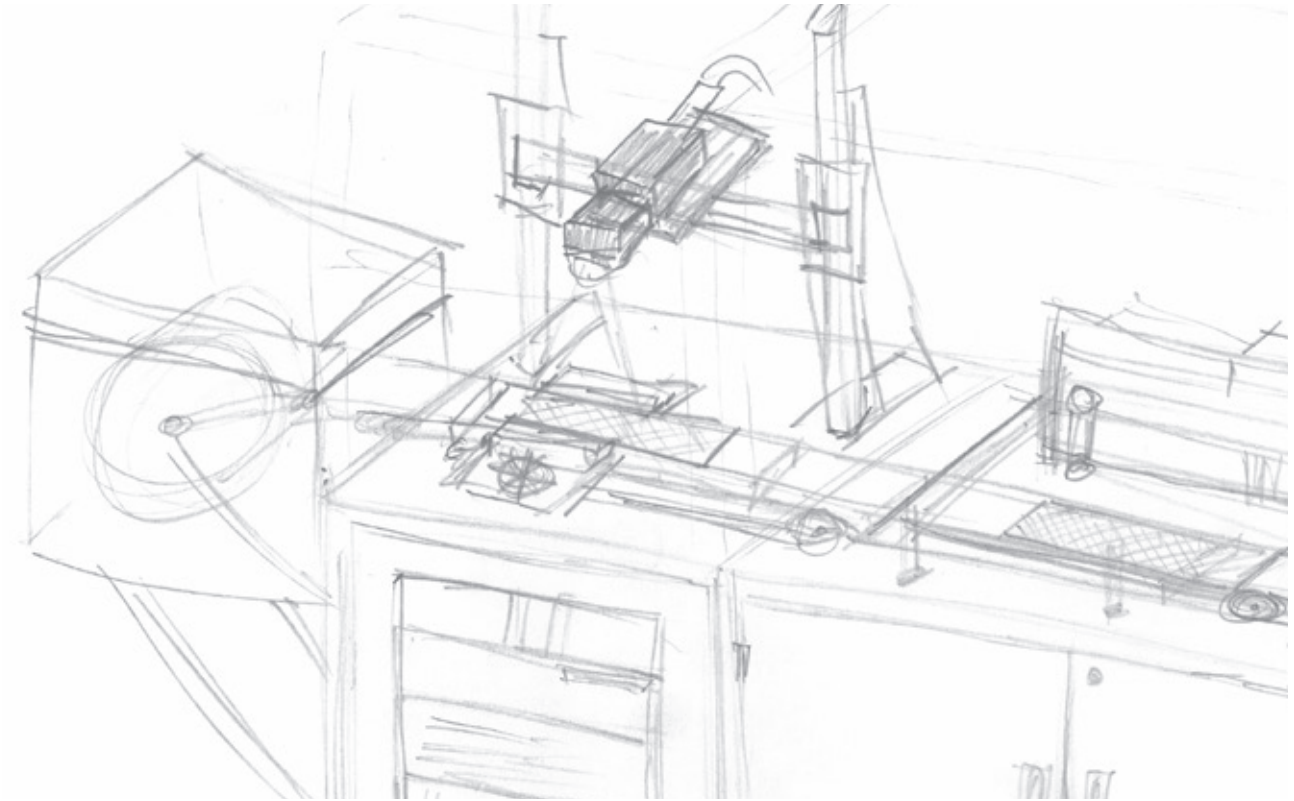
Highly visible color change on plastics



Processing of various materials in the automotive industry



Marking of precision tools without changing the workpiece properties



Requirement analysis and survey of the customer's requirements

→ Achieving the best solution together

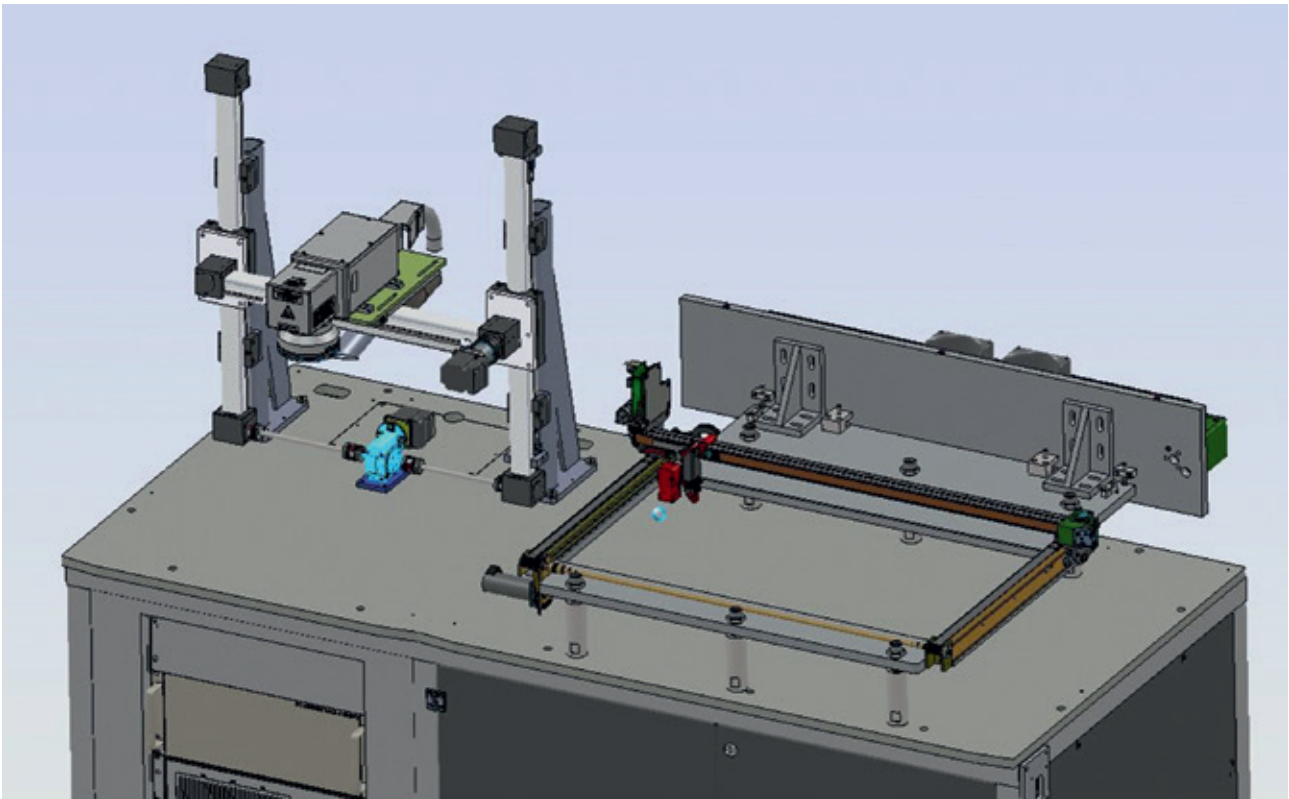
The first step, important for the further process sequence, is to intensively clarify our customers' exact requirements, needs and ideas together with them. The more precisely we know your application and workflow, the more specifically we can create the first drafts.

Material and application precisely analyzed

This includes accurate sampling of your parts and intensive presentation of our solutions. If we are lacking any important information, we ask for it. The sooner we gather information the better we can incorporate it.

Components of the analysis::

- Materials to be marked, processes
- Part sizes / part variants
- Lot size
- Cycle times
- Loading and unloading
- Existing and planned workflow
- Time frame of the project
- Investment framework



Concept development / process analysis

→ Our intention: Developing the best system for you

Based on the jointly developed requirements, we create the product requirements / specifications and design the system. Here we can draw on decades of experience and our broad module concept. Any necessary adaptation of the software and scripting tasks are considered during this step. We do not just focus on your application, but also look deeply into your existing processes to optimize them. You will receive a detailed description of the solution from us. We will address all points together with you, so any questions still open or newly occurring at this time can be clarified.

Alternative versions for comparison

We develop alternative versions to enable you to compare. In several rounds of coordination, we look at the individual equipment variants and jointly choose the solution best suited to your purposes.

Concept contents:

- Offer basics / application description
- System solution with 2D or 3D sketch(es)
- Functional description of the system
- Technical data / dimensions
- Process description
- Components / Extraction / Options and accessories
- Potential restrictions or critical points
- Alternative solutions
- Scope of investments



Individual customer solution

Laser marking and cutting of films for electronic components

Professional project handling

From the start of the project to the commissioning of the system, we focus on close collaboration with our customers. A detailed kickoff of the project and regular consultations at the individual stages give you the assurance that your requirements will be implemented exactly as desired. Corrections can be carried out immediately. From the beginning, you will know and be able to control the features of your system. You have one single contact person who takes care of all parts of the project for you.

Support by our specialists

Construction, commissioning and joint final acceptance are performed by our staff in cooperation with one of our technicians directly at the customer's. Intense training and support during the training phase are included, as a service package individually developed for you as part of our TroCare service program is. This ensures reliability from the very beginning.

From order to running installation

- Kick-off of the project
- Design and design meeting
- Design review
- Detailed design
- Programming / Scripting and system construction
- Preliminary acceptance at Trotec
- Detailed documentation
- Commissioning, final acceptance and training at the customer's
- TroCare – after-sales package

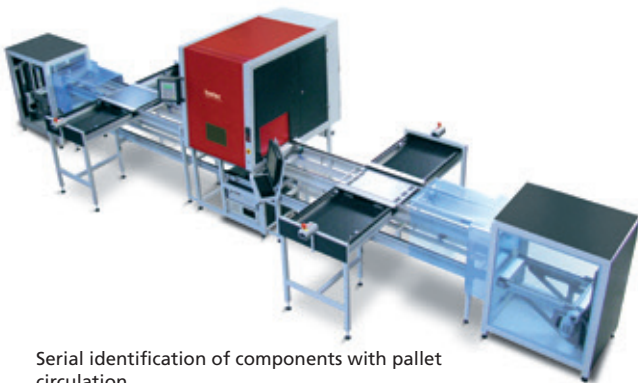
→ Selected exemplary projects



System for marking ball bearings with sorting device and collecting container



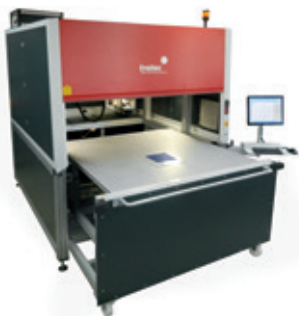
Laser cutting machine for book covers



Serial identification of components with pallet circulation



Lid marking using rotary indexing table system



Parts handling with loading carriage for laser marking of large and heavy parts



Label marking with unwinding unit



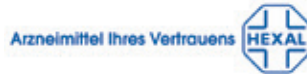
Marking of forceps in laser marking installation with belt rotation system



OEM solutions for integration into various systems

→ Our customers

It makes us proud that all over the world large and small companies from a variety of industries rely on laser systems by Trotec.



PETER McCANN



SCHIEBEL



TU/e



berger



KPF



Bauhaus-
Universität
Weimar



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