Lasermachines

laser engraving | laser marking

SK LASER

The Specialist For Lasers

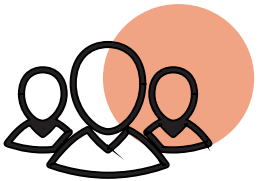
The Specialist For Lasers

„We lobe engineering and the happy faces of our customers in presenting our solution for their specific needs.“

Christoph Kollbach
Executive Director SK Laser GmbH

Experience

Since 2005, SK Laser has specialized an laser marking on almost all materials.



Employee

15 employees with great laser experience are employed at SK Laser.

TÜV

In 2017 SK Laser had the workstation F20CW1 tested by TÜV.

DIN ISO 9001

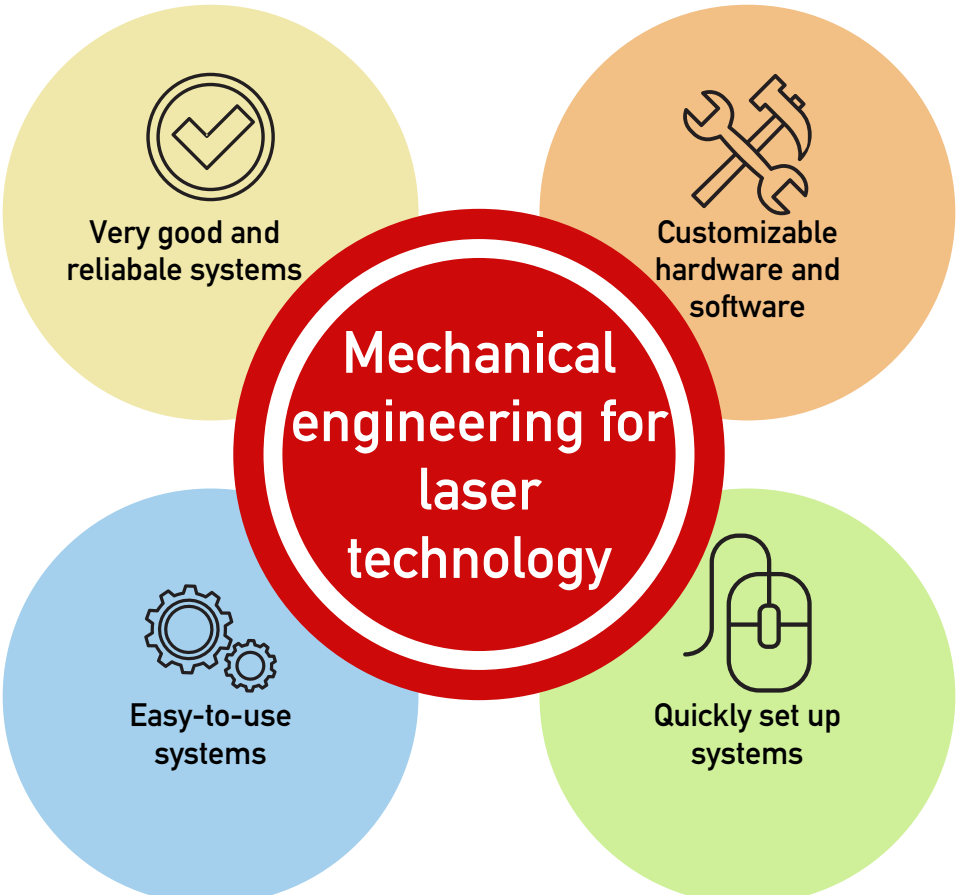
Since 2014 SK Laser is cerfitied according to the quality standard DIN ISO 9001.

Bonitätsindex 171

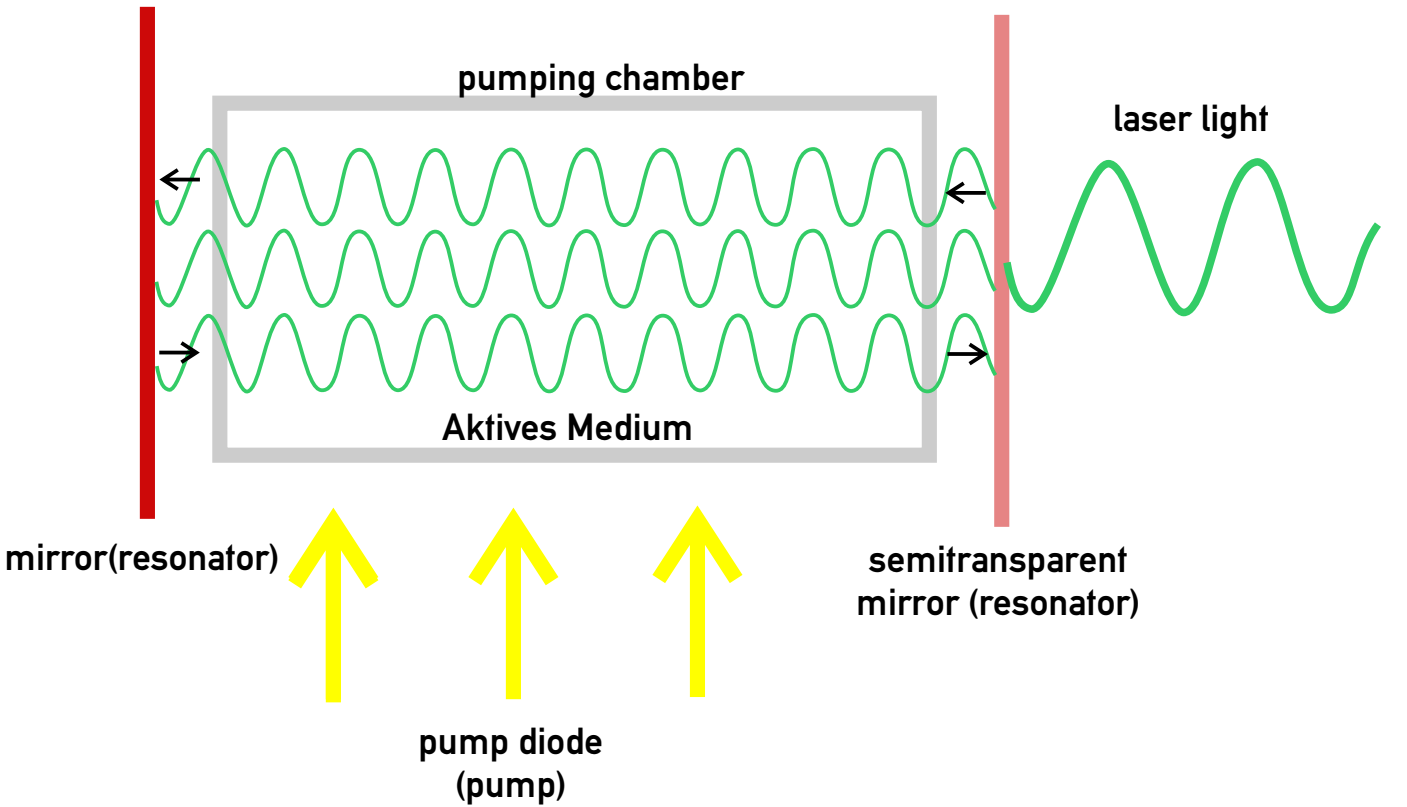
The credit index of SK Laser GmbH is rated 171 with the Creditreform Index.

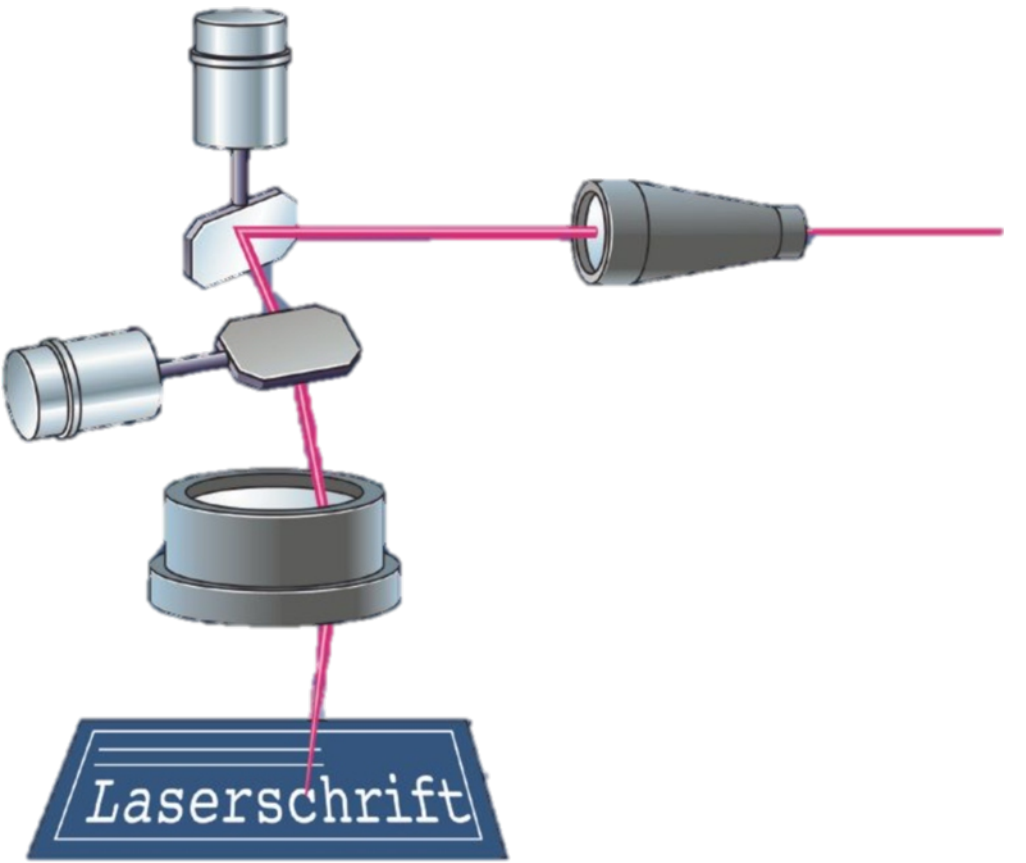
Debt free

SK Laser is debt free and profitable


Very good and reliabale systems
Customizable hardware and software
Mechanical engineering for laser technology
Easy-to-use systems
Quickly set up systems


GREENLAND (DENMARK)
ALASKA (USA)
CANADA
UNITED STATES OF AMERICA
MEXICO
CUBA
VENEZUELA
GUYANA
COLOMBIA
ECUADOR
PERU
BRAZIL
BOLIVIA
PARAGUAY
CHILE
URUGUAY
ARGENTINA
SVALBARD (NORWAY)
ICELAND
SWEDEN
FINLAND
NORWAY
RUSSIA
KAZKAHSTAN
MONGOLIA
CHINA
JAPAN
SPAIN
ITALY
TURKEY
IRAQ
IRAN
ALGERIA
LIBYA
EGYPT
SAUDI ARABIA
OMAN
INDIA
MALI
NIGER
CHAD
SUDAN
ERITREA
YEMEN
NIGERIA
ETHIOPIA
SOMALIA
UGANDA
KENYA
TANZANIA
ANGOLA
ZAMBIA
NAMIBIA
SOUTH AFRICA
PHILIPPINES
INDONESIA
AUSTRALIA
NEW ZELAND


pumping chamber
laser light
Aktives Medium
mirror(resonator)
semitransparent
mirror (resonator)
pump diode
(pump)


Laserschrift

The laser engraving enables permanent and consistent labeling for complete and unambiguous traceability.

There are hardly any limits to the materials to be marked. Therefore, laser engraving is indispensable in many industries

- Automotive Industry
- mechanical engineering
- Electronics / Electrical Engineering
- Medical
- Plastics industry
- Plastics Processing
- Aerospace Engineering
- defense technology
- packaging industry
- textile industry

Metals

Barcode on metal

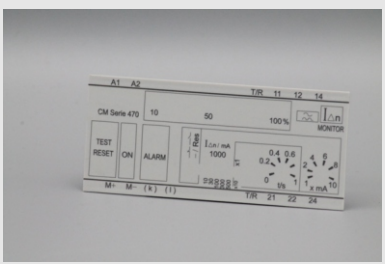
Filigree marking

Logo and Data-Matrix-Code

Kunststoffe

Marking on plastics

DataMatrix on plastics



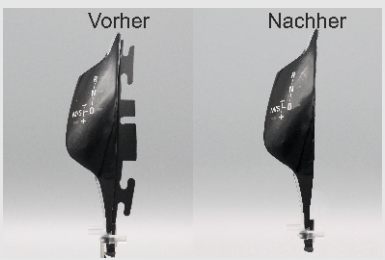
Nameplate

Spezielle Anwendungen

4mm Data-Matrix Code

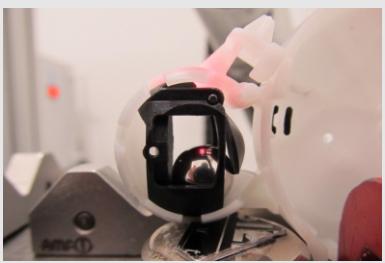
Day-Night-Design

Colored annealing



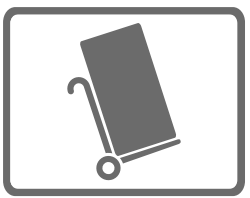
Sprue cutting of injection mold

Cutting fleece

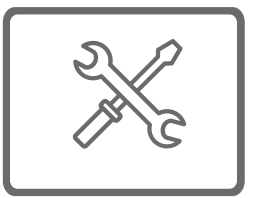


Welding plastics

Ideal for all laser engraving jobs in the indusry

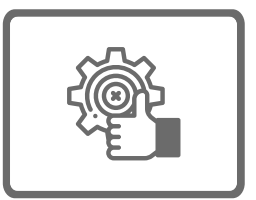


Easily transportable thanks to flavorable external dimensions



Resilient due to stable construction

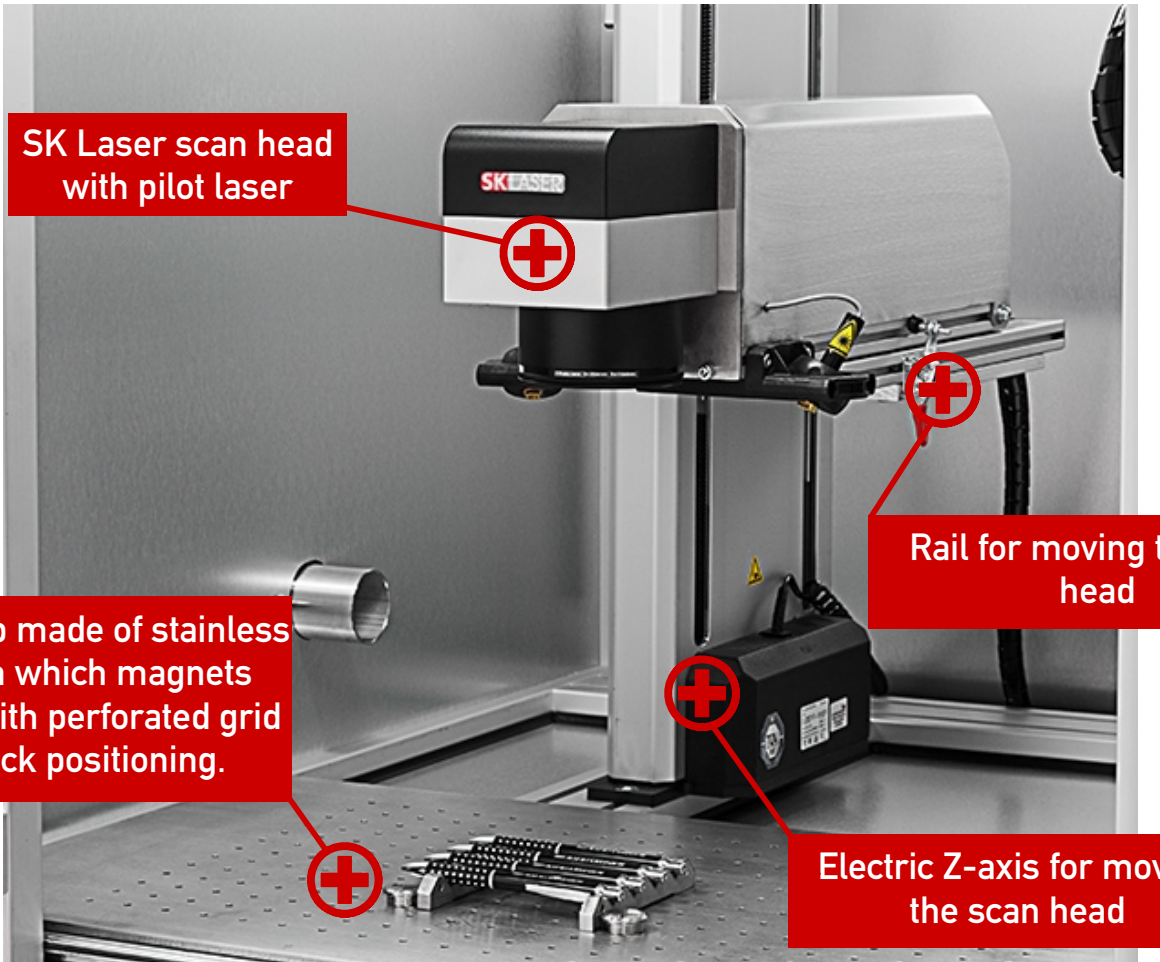
can be used as a sitting or standing workplace

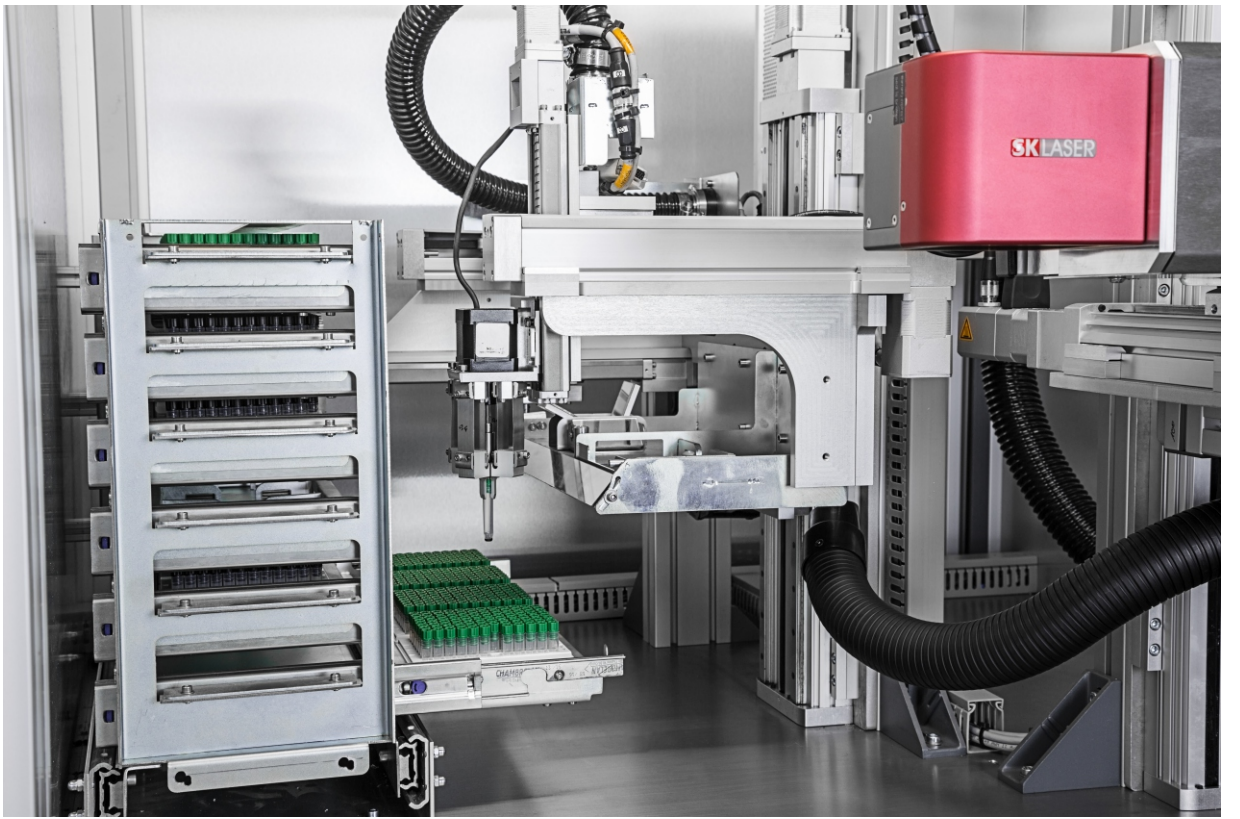


Poven base components

The standard model on which everything is built.

Expandable and expandable according to customer request


SK Laser scan head with pilot laser
Rail for moving the scan head
Countertop made of stainless steel, on which magnets adhere, with perforated grid for quick positioning.
Electric Z-axis for moving the scan head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SKLASER
SKLASER
SK LASER


SKLASER
Laser Klasse 1
BLS-E 10
Beton
(auch
armiert)
max 6.300 U/min (max 100 m/s)
SKLASER


SKLASER
SKLASER
SKLASER
SKLASER


SKLASER
SCHWERLAST LASER
Kranbeladung
Tragkraft bis 300 kg
SKLASER
SKLASER
CHWERLAST LASER
Kranbeladung
Tragkraft bis 300 kg


SKLASER
Laser Klasse 1
READY
LASER
PREVIEW
PC
SKLASER


SKLASER
SKLASER
SKLASER

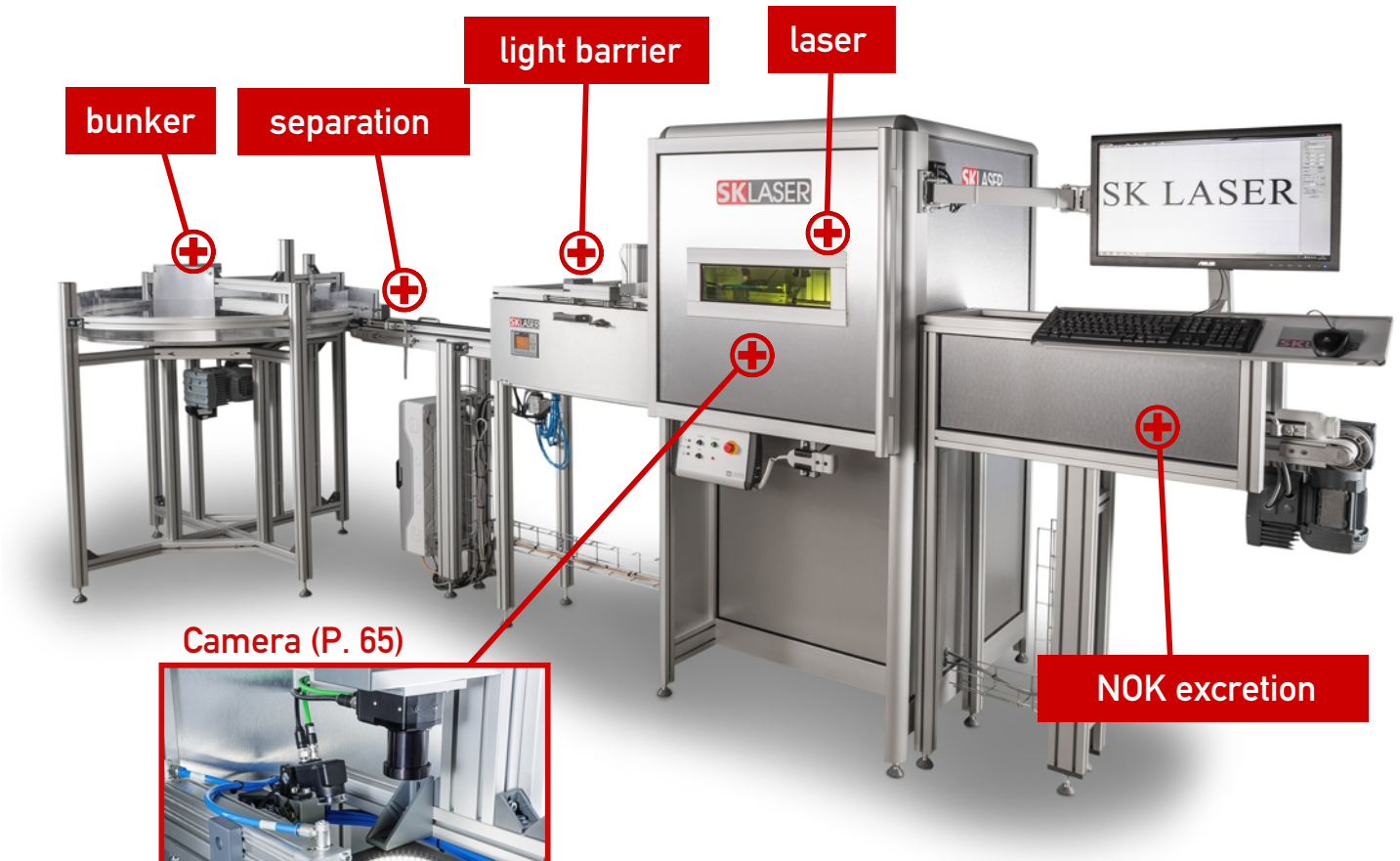

SKLASER


SKLASER

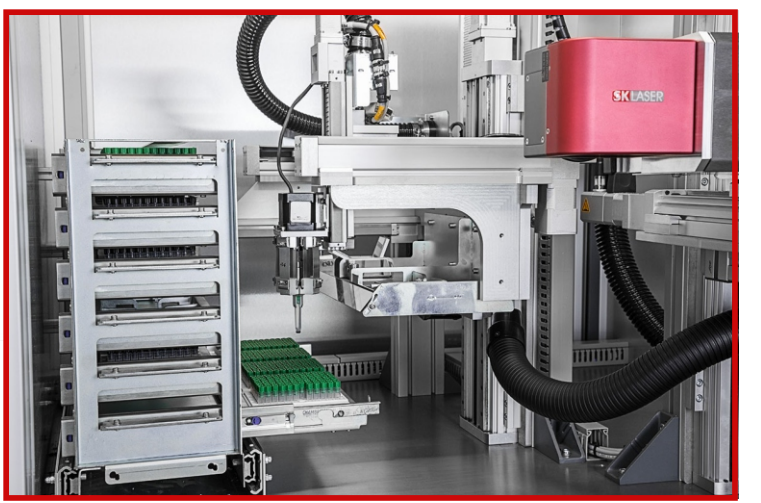

SKLASER
SKLASER


SKLASER
SKLASER
SK LASER

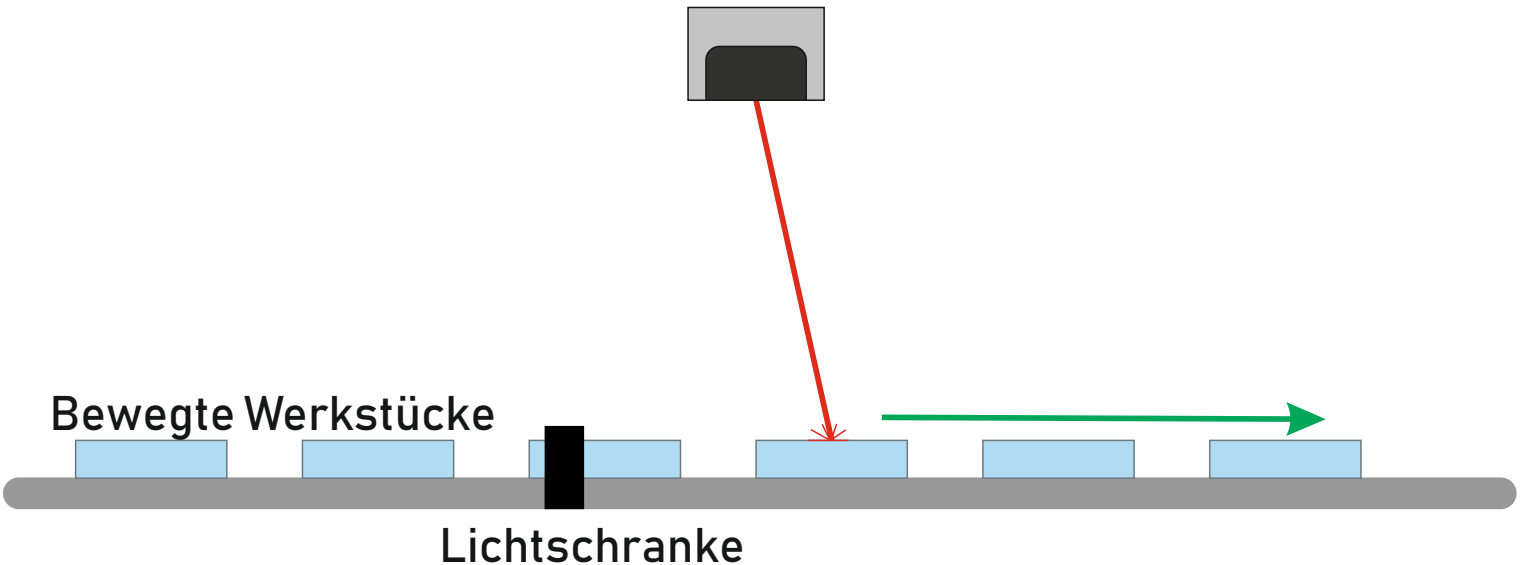

SKLASER
SKLASER
SKLASER


bunker
separation
light barrier
laser
SKLASER
SK LASER
Camera (P. 65)
NOK excretion


SKLASER
SKLASER


SKLASER

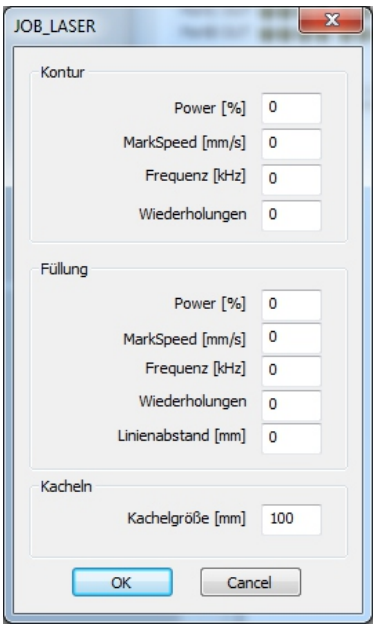

KOLLTRONIC F20C

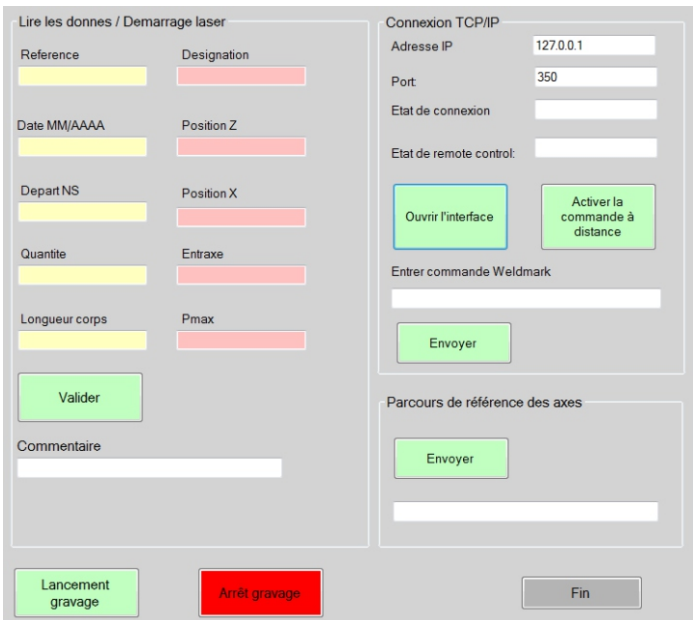

Bewegte Werkstücke
Lichtschranke

Workstation Mini

Workstation for 3D deep engraving


KSRscan V1.4
Job
Vector View
Bauteil-Parameter
Skala1-Parameter
Skala2-Parameter
Laser-Parameter
Kommando
START
STOP
Status
Gesamtmaschine
Band läuft
Laser arbeitet
Nicht Aktiv
Hardware
MAIN
RTC_SPICE1
Fehler
Kein Fehler
Fehler löschen
Allgemein


JOB_LASER
Kontur
Power [%] 0
MarkSpeed [mm/s] 0
Frequenz [kHz] 0
Wiederholungen 0
Füllung
Power [%] 0
MarkSpeed [mm/s] 0
Frequenz [kHz] 0
Wiederholungen 0
Linienabstand [mm] 0
Kacheln
Kachelgröße [mm] 100
OK
Cancel


Lire les donnes / Demarrage laser
Reference
Designation
Date MM/AAAA
Position Z
Depart NS
Position X
Quantite
Entraxe
Longueur corps
Pmax
Valider
Commentaire
Connexion TCP/IP
Adresse IP 127.0.0.1
Port 350
Etat de connexion
Etat de remote control:
Ouvrir l'interface
Activer la commande à distance
Entrer commande Weldmark
Envoyer
Parcours de référence des axes
Envoyer
Lancement gravage
Arrêt gravage
Fin


SK LASER
SK LASER
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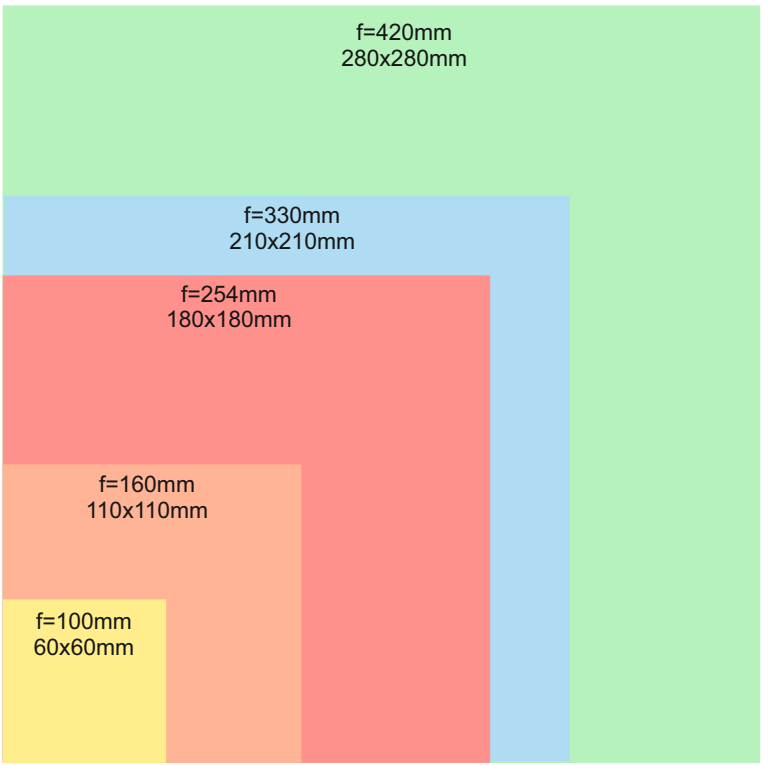
Lenses and area coverage



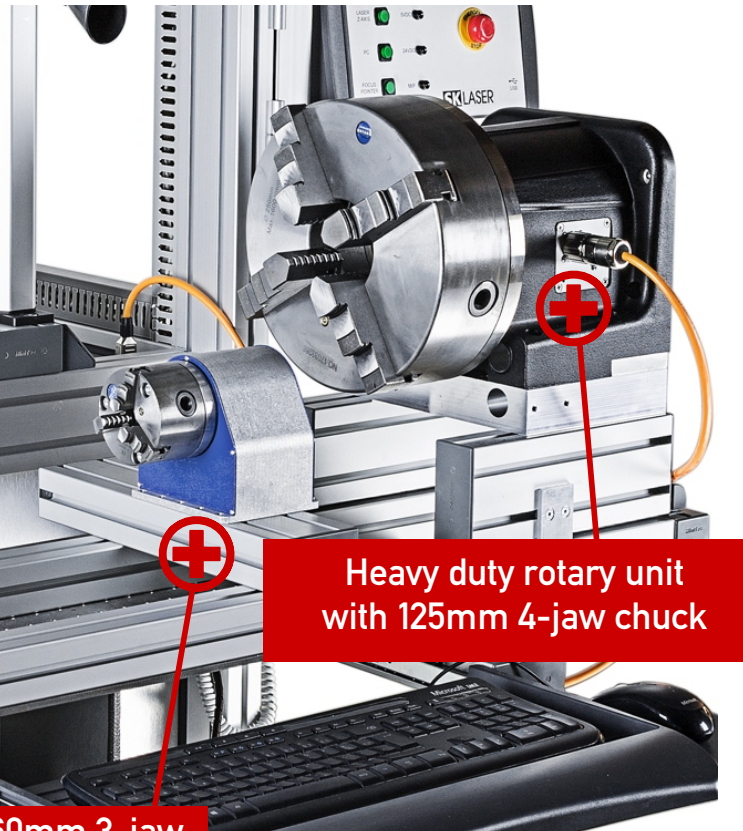
f=160mm

f=254mm

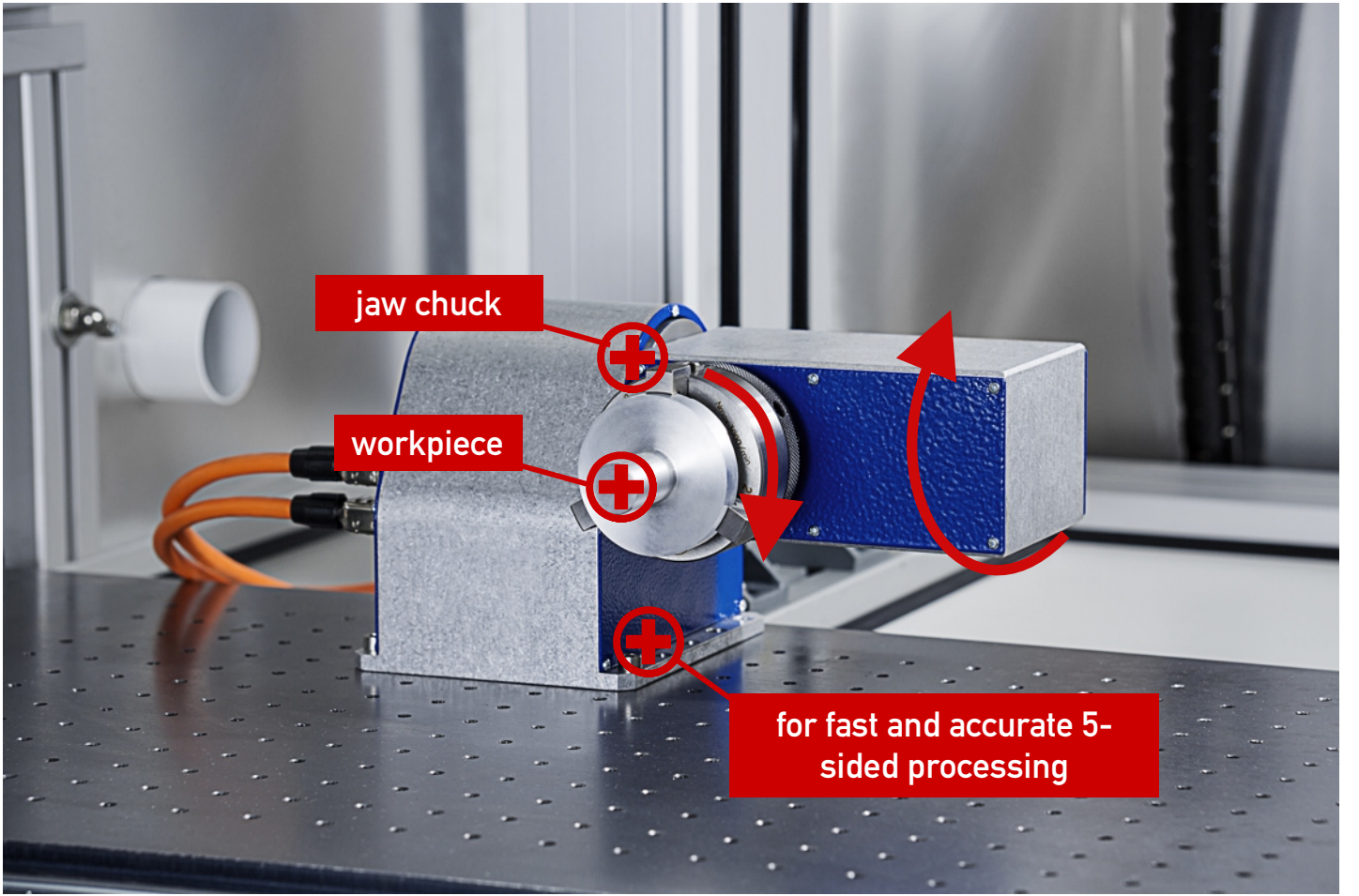
f=420mm

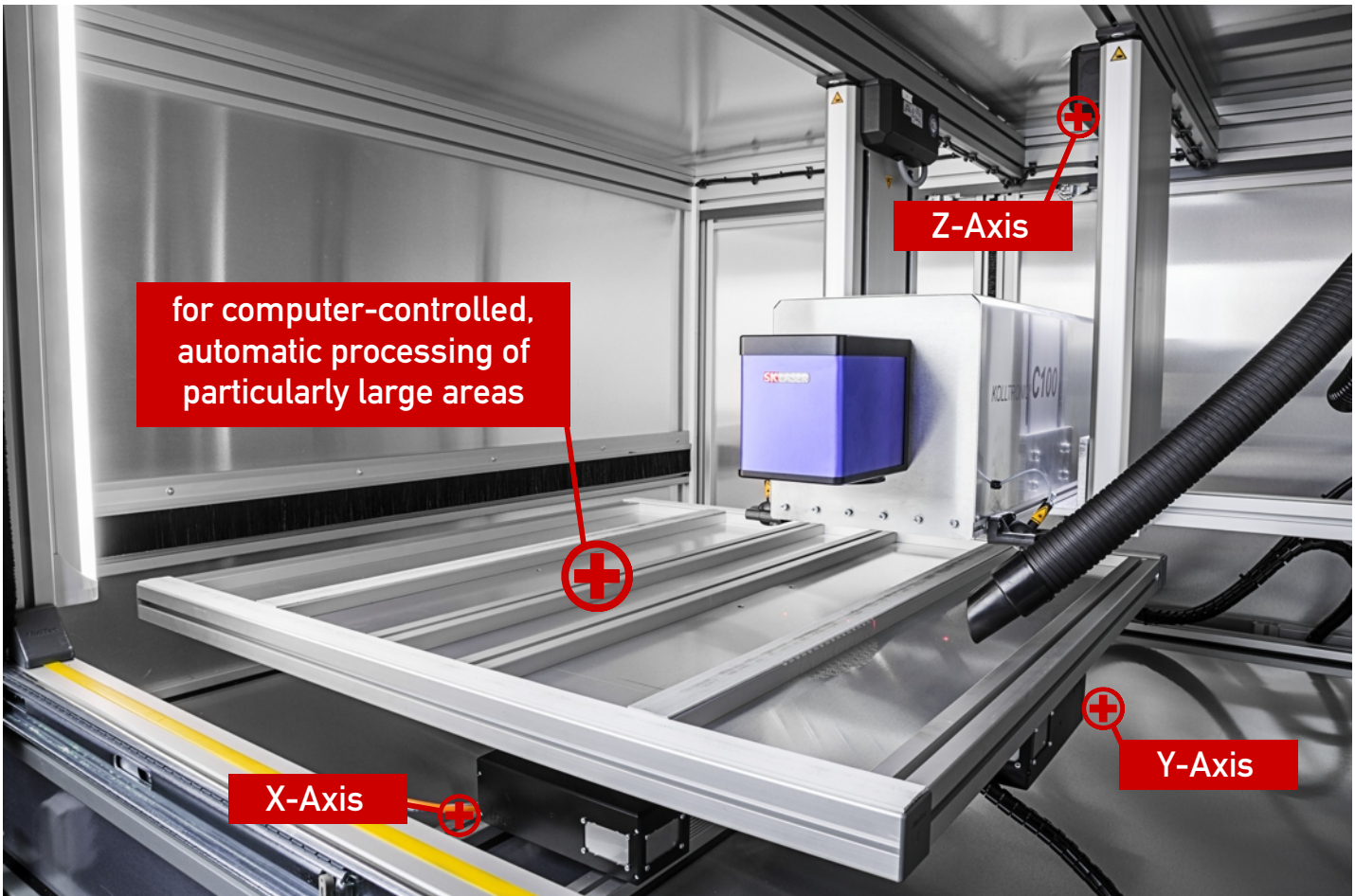
* The specifications correspond to the information provided by the manufacturer of the optics. It's in physics, that laser results at the edge of the labeling field may be impaired.
Therefore, as a precaution, we point out that the size of the labeling field may differ in practice

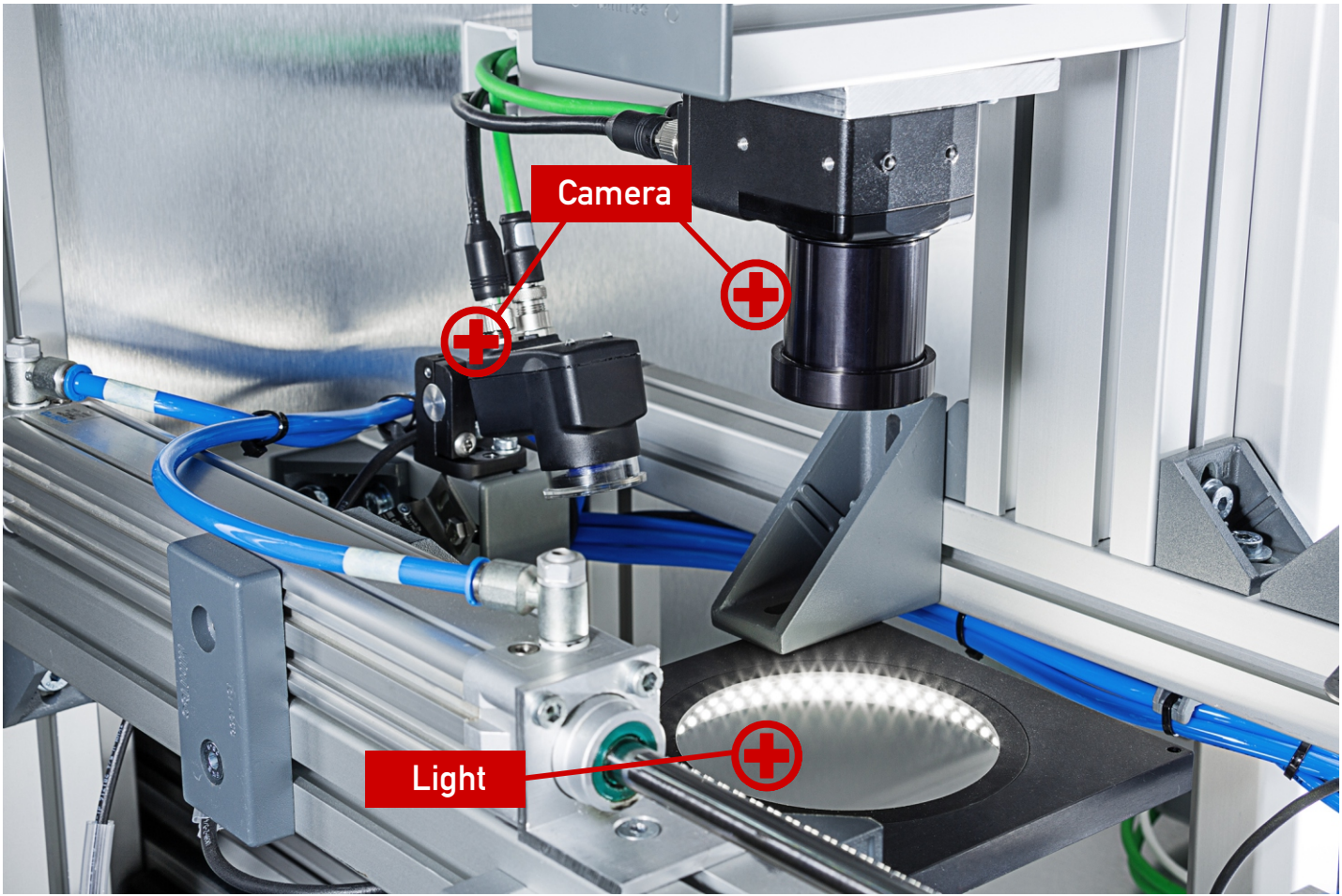
Rotary unit with 60mm 3-jaw chuck



Heavy duty rotary unit with 125mm 4-jaw chuck


jaw chuck
workpiece
for fast and accurate 5-sided processing


for computer-controlled, automatic processing of particularly large areas
Z-Axis
X-Axis
Y-Axis


Camera
Light


FANUC Robot
LR Mate 200iD

Fume extraction

Laser engraving can produce dangerous emissions that can strain and even damage the lunge. It also highlights contamination of the laser machine and lens, which can affect laser quality. Therefore, we strongly recommend the use of a suction system when using a laser machine!

Pre-filter

Main-filter

Fiber laser

Grreenlight-Laser

CO_2-Laser

F-Series

For processing metals and plastics, as well as plastic welding and perforating

G-Series

For processing glass and plastics, as well as small letters in the micro range.

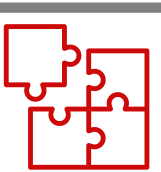
C-Series

For processing plastics and organic materials, such as wood, textiles, stone.

Excellent beam qaulity

High efficiency

Long lifetime



Compact construction

Fast setup

Energy efficiency

Application matrix						
Material	**F-Series**	**C-Series**	**Y-Series**	**G-Series**	**UKP-Series**	**UV-Series**
Metal						
Engraving	✓✓	▭	✓✓	✓✓	✓✓	▭
Removal	✓✓	▭	✓✓	✓✓	✓✓	▭
Annealing	✓✓	▭	✓✓	✓✓	✓✓	▭
Plastics*						
Engraving	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓
Foaming	✓✓	✗	✓✓	✓✓	✓✓	✓✓
Paint removal	✓✓	✓✓	✓✓	✓✓	✓✓	▭
Wood, paper, leather, ceramics, glas and other organic materials	✗	✓✓	✗	✓✓	▭	▭

✓✓ Very good results ▭ Good results ✗ Material can not be marked with this beam source

* There may be restrictions depending on the material composition.

1064nm Wavelength

Fiber laser 20-100W

Für metal and plastics.


SK LASER
KOLLTRONIC® F20C
KOLLTRONIC® Y5

Technical specifications

Fiber laser

General

Laser power	20W, 30W, 50W, 100 W
Marking field	Standard: 180 x 180 mm, optional: 60 x 60 mm, 100 x 100 mm, 210 x 210 mm, 280 x 280 mm
Marking speed	2.000 mm/s (optional up to 8.000 mm/s)
Character height	von 0,1 mm until complete field
Minimal line width	0,05mm (optional 0,01 mm)
Safety	Laser class 4
Pilotlaser	Red outline or rectangle

Control unit

Input/Output	analog and digital in-/outputs (5V/24V) for system integration
System messages	MIP (mark-in-progress)
Communication	RS232, Ethernet, USB, Profinet
Computer	Windows, Monitor, Keyboard, Mouse (approx. 12 kg)
Function keys	Turn on (PC and Laser), Emergency Stop, Focus laser

Scan head

Dimensions (W x H x D)	130 x 160 x 570 mm
Weight	8 kg
Supply	Optical fiber cables length: 2m)
Casing	Stainless steel

* Options and variants at extra cost

532nm Wavelength

Greenlight Laser 3 - 10 Watt

Für metals, plastics and glass.


KOLLTRONIC® G3

Technical specifications

Greenlight laser

General

Laser power	3W, 10 W
Marking field	Standard: 155 x 155 mm, optional: 55 x 55 mm,
Marking speed	2.000 mm/s (optional up to 8.000 mm/s)
Character height	von 0,1 mm until complete field
Minimal line width	0,05mm (optional 0,01 mm)
Safety	Laser class 4
Pilotlaser	Red outline or rectangle

Control unit

Input/Output	analog and digital in-/outputs (5V/24V) for system integration
System messages	MIP (mark-in-progress)
Communication	RS232, Ethernet, USB, Profinet
Computer	Windows, Monitor, Keyboard, Mouse (approx. 12 kg)
Function keys	Turn on (PC and Laser), Emergency Stop, Focus laser

Scan head

Dimensions (W x H x D)	123 x 152 x 557 mm
Weight	8 kg
Supply	Optical fiber cables length: 2m)
Casing	Stainless steel

* Options and variants at extra cost

10600nm Wavelength

CO_2-Laser 30-200 Watt

Für plastics, acrylic glass, glass and organic materials, such as cardboard, paper, wood, textils, fleece or leather.


SKLASER
KOLLTRONIC C
SKLASER
KOLLTRONIC C
SKLASER

Technical specifications

CO_2-Laser

General

Laser power	30W, 60W, 80W, 100 W, 200W
Marking field	min 60x60mm, up to 280x280mm
Marking speed	2.000 mm/s (optional up to 8.000 mm/s)
Character height	von 1 mm until complete field
Minimal line width	0,2 mm
Safety	Laser class 4
Pilotlaser	Red outline or rectangle

Control unit

Input/Output	analog and digital in-/outputs (5V/24V) for system integration
System messages	MIP (mark-in-progress)
Communication	RS232, Ethernet, USB, Profinet
Computer	Windows, Monitor, Keyboard, Mouse (approx. 12 kg)
Function keys	Turn on (PC and Laser), Emergency Stop, Focus laser

Scan head

Dimensions (W x H x D)	180 x 160 x 770 mm (30W)
Weight	15-50 kg
Casing	Stainless steel

* Options and variants at extra cost

Axial scan beam guidance

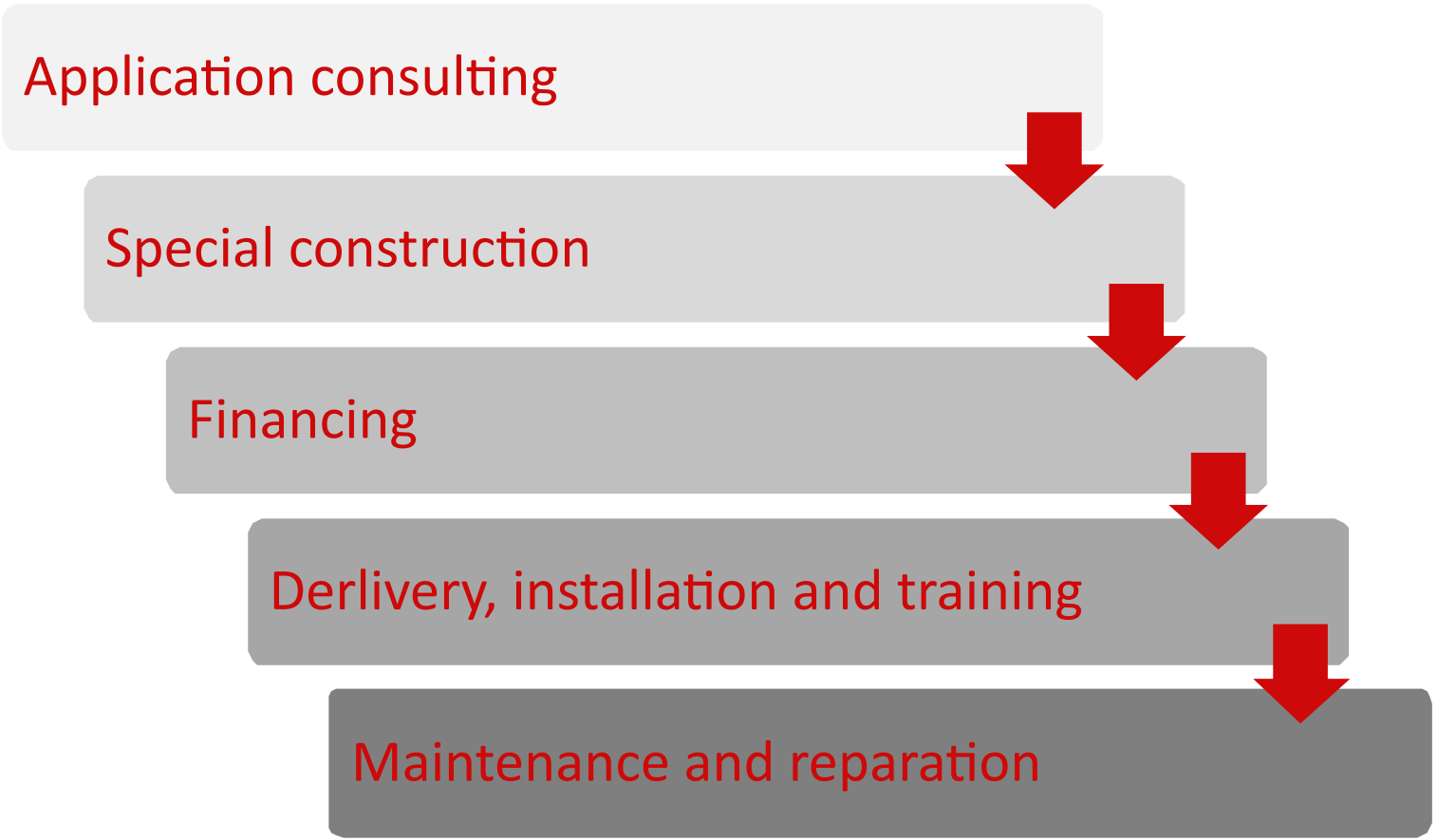
Customized beam guidance and scanning systems

-
- Laser marking on large work surfaces with a labeling field of 1000x1000 mm
- Double head systems
- Beam delivery systems


KOLLTRONIC C150

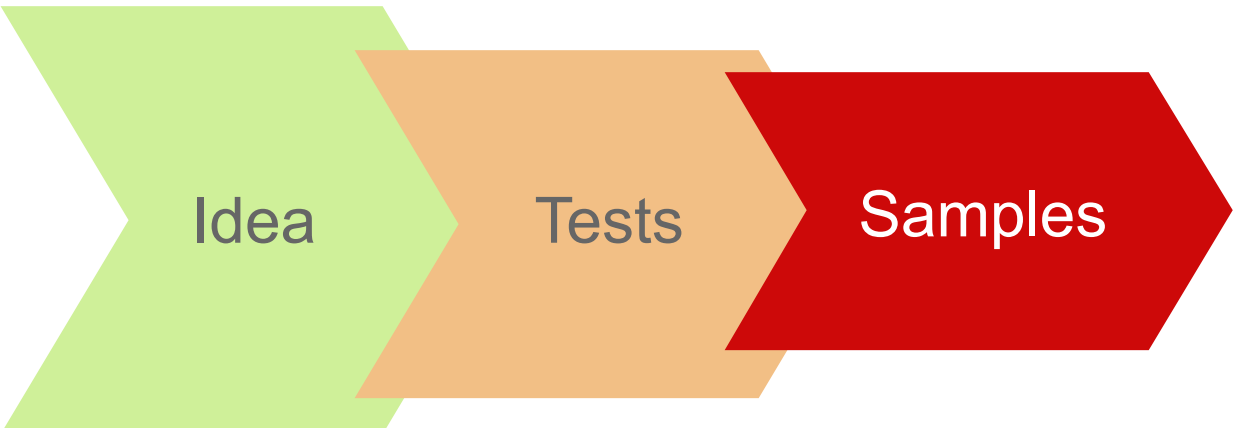
Unser Service

Alles rund um Ihren Laser


Application consulting
Special construction
Financing
Derlivery, installation and training
Maintenance and reparation

Application consulting

From your idea to the finished product



We advise you in the selection of the appropriate laser process, tailored to your requirements of laser engraving.

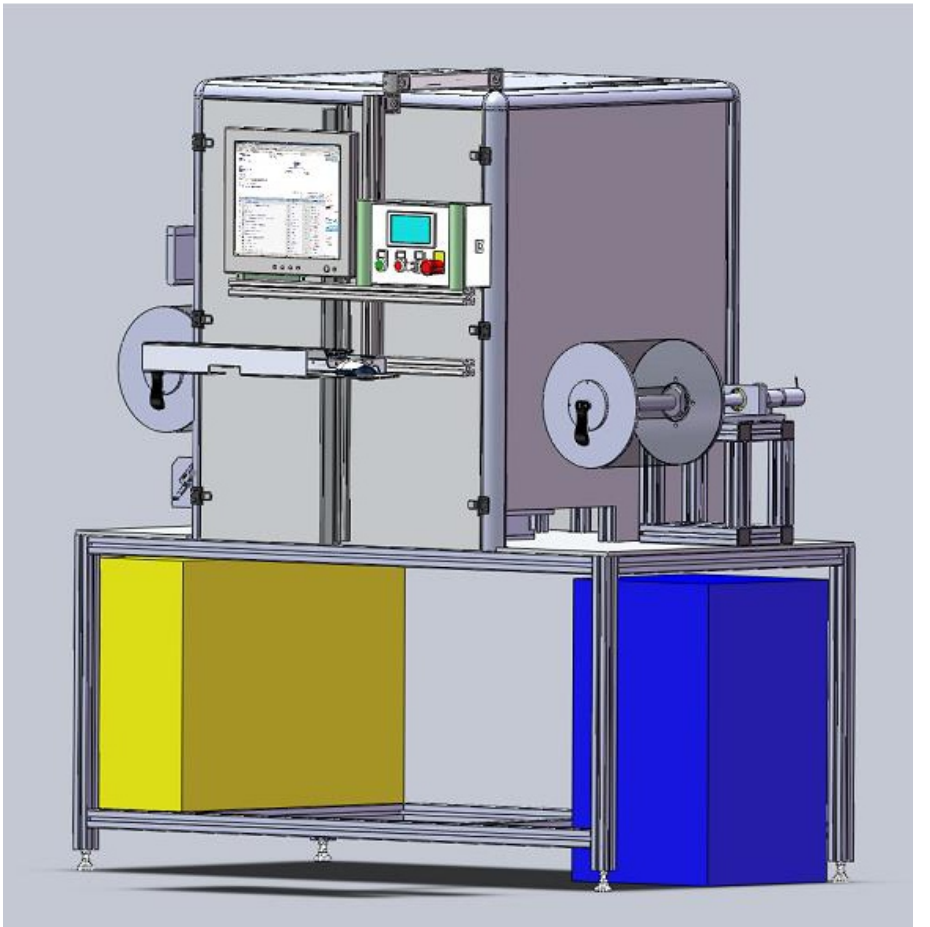
Based on this, we carry out various tests up to product maturity.

Special construction

Modified series models and individual solutions

From the idea to the finished machine.

1. Clarification of the task.
2. Cooperative development of a solution.
3. Projecting.
4. Structure of the project.
5. Preliminary acceptance by SK Laser.
6. Assembly and commissioning at the



Financing

Purchase - Leasing - Rent

For financing we offer leasing and hire purchase through a leasing partner.

Rent our machines for capacity spikes or sporadic / one-time orders.
Book us for your marketing campaign at trade fairs or events. We label the most diverse materials live and on site for you

Purchase

Bank financing

Leasing

partial and full leasing in 36 to 72 months

Rent

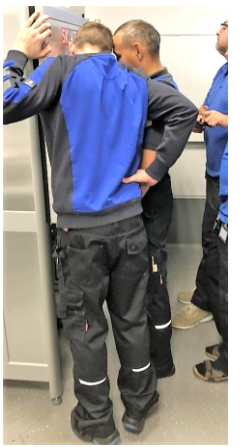
Short-term rental for trade fairs and production peaks

Delivery, installation und training

We deliver our machines within Germany and the neighboring countries.

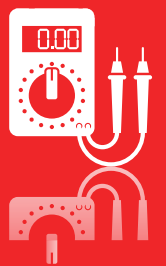
Sea transport packaging

Delivery



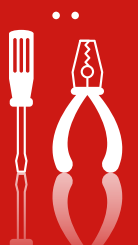
Installation and training

Maintenance und repair



Maintenance

On request we carry calibration and
Maintenance on your laser.
We are happy to offer a maintenance contract.



Repair

If you have problems with your laser we can help you with pleasure.

SK Laser GmbH
Daimlerring 6
65205 Wiesbaden-Nordenstadt
Deutschland
Tel. 06122 / 53335-0
Fax 06122 / 53335-29
E-Mail: info@sk-laser.de
Webseite: www.sk-laser.de