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Flexible CNC Laser Machining Centre

- Freeform machining via 5-axis kinematics
- Scanner optics and fixed optics
- Laser systems up to 6 kW with various available wavelengths
- Made in Germany

Micro welding with lasers
with up to 7 axes

Compact and highly flexible CNC laser machining centre from Schüssler Technik

With its new CNC laser machining centre, Schüssler Laser (a brand of Schüssler Technik GmbH & Co. KG in Pforzheim) is opening up new perspectives in the field of micro laser welding, and with up to 7 axes. Our system's new compact design offers you highly flexible application options.

High precision micro laser welding

Our laser welding system uses QCW fibre lasers with a power output from 150 watts. The perfect interplay of the interior observation camera, the laser's camera-supported tracking, and the direct drives developed by Schüssler Technik, provide you with high-precision micro-laser welding results.

Industry 4.0

Of course, our CNC laser processing centre has also been prepared with respect to the subject of "Industry 4.0" and can be seamlessly adapted to your production process.

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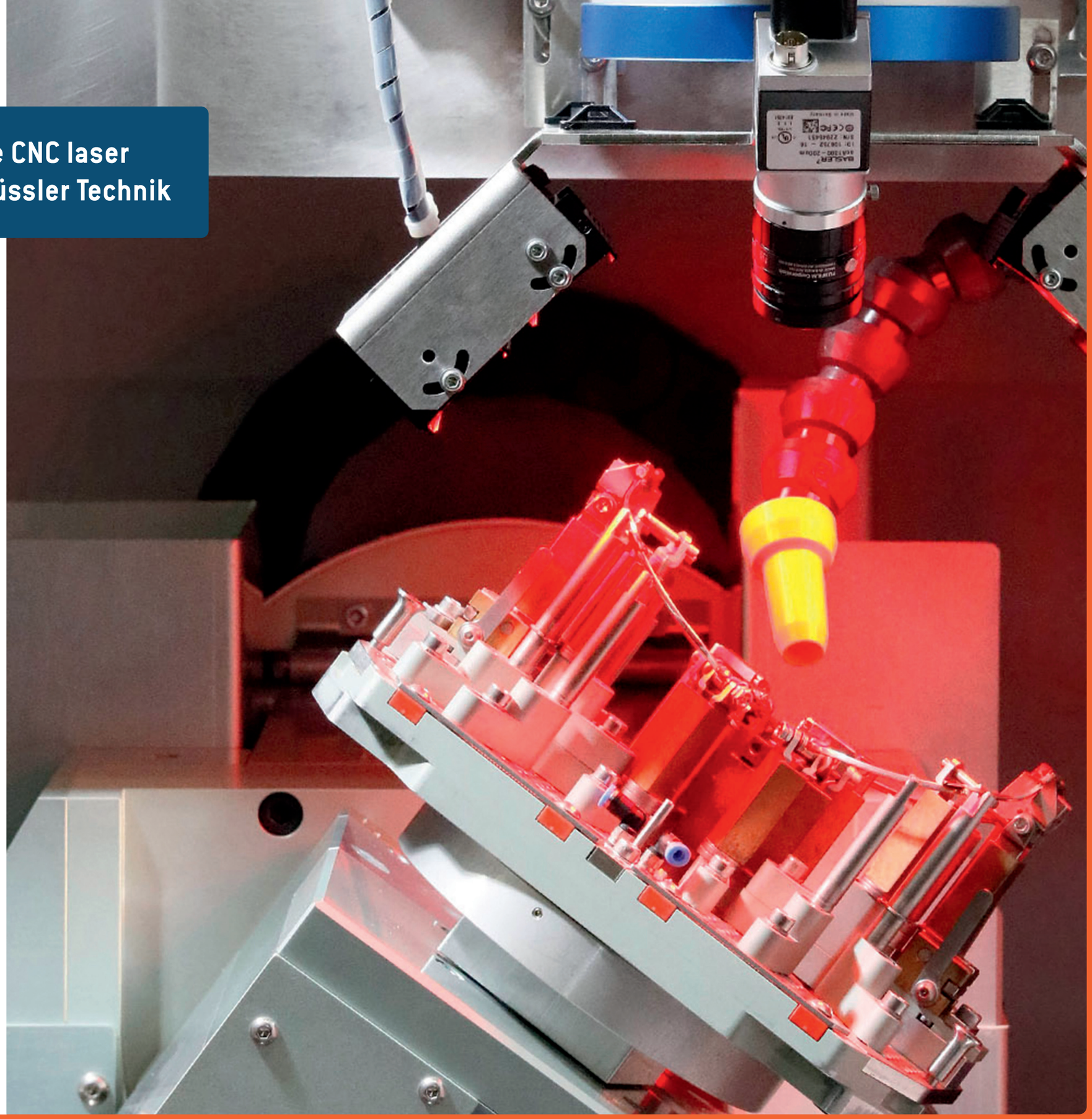

Freeform machining with up to 7 axes

The highlights of our CNC laser machining centre

- Freeform machining via 5-axis kinematics
- Axis of rotation with hollow shaft
- Maintenance-free direct drives
- High precision due to proven technology
- Use of lasers of varying outputs
- Automatic position detection of the workpieces via a camera in the beam path
- Automated loading opening for quick loading and unloading
- CAD/CAM system
- Optionally with proven galvo scanner or fixed optics
- Media supply prepared on workpiece carrier (compressed air, vacuum, process gas)
- Uncomplicated application support from our application technicians on site or via remote access
- Made in Germany on site in Pforzheim

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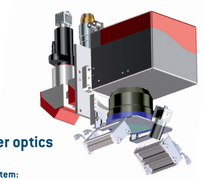
Integrated camera

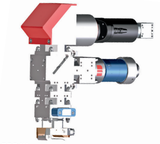
An integrated camera in the beam path enables automatic weld seam position detection. This results in correction of the workpiece position during the laser welding process.



Scanner optics

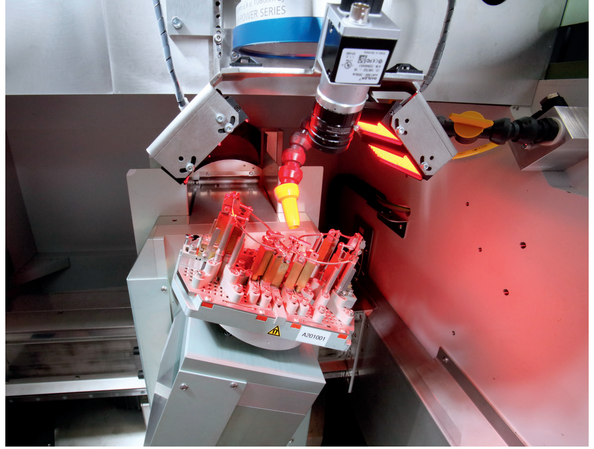
Laser system:
- QCW laser, 150/1 500 W
- Outstanding service life of the pump diodes
- Maintenance-free air-cooled structure
- Wavelength: 1 055 – 1 070 nm
- Pulse frequency: 0 – 5 kHz (CW)
- Lens focus: 160 mm

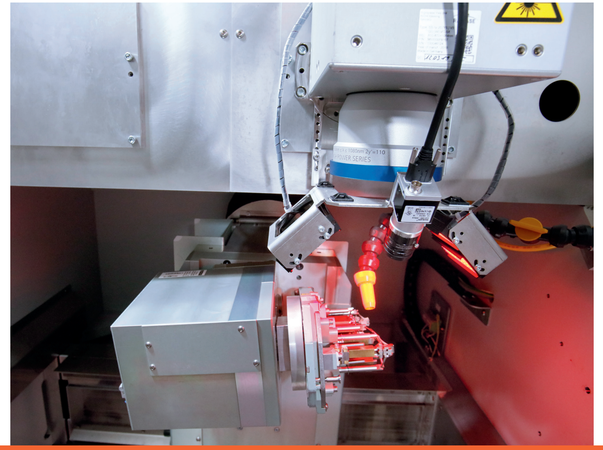
Vision system:
- Position detection of the machining workpieces, automatic position (XY) and angular deviation correction
- Image processing computer with camera, b/w
- Light controller for intensity control of the lighting from the image processing software
- Image processing software package including communication with the laser



Fixed optics

Laser system:
- QCW laser, 150/1 500 W
- Outstanding service life of the pump diodes
- Maintenance-free air-cooled structure
- Wavelength: 1 055 – 1 070 nm
- Pulse frequency: 0 – 5 kHz (CW)
- Lens focus: 150 mm



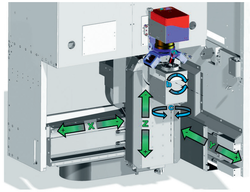


Options

Hardware:
- Workpiece carrier with media supply (gas, compressed air, vacuum)
- Rotary axis with hollow shaft without clamping cylinder
- Axis of rotation with hollow shaft and clamping cylinder
- Axis of rotation with clamping cylinder
- Vacuum generator
- Interior observation camera
- Workpiece holder on request
- Manual chuck adapter
- Laser systems up to 6 kW and with various wavelengths on request

Software:
- OPC UA interface
- 3D freeform laser welding using a CAD/CAM software solution from SolidCAM

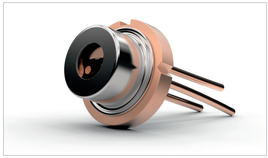
Service:
- User training
- Software training
- Commissioning and instruction on site



Technical data

Dimensions (W x D x H):	approx. 1 600 x 1 300 x 2 305 mm
Net weight:	approx. 1 500 kg
Space requirement:	approx. 9 m²
X-/Y-/ Z-axis:	500/300/200 mm
Repeatability:	+/- 0.01 mm
Max. workpiece weight:	approx. 15 kg
Electrical connection:	400 V 3 Ph. 50/60 Hz (32 A)
Compressed air:	6 – 7 bar, 200 l/min
Laser type:	Yb fibre laser
Laser output:	up to 6 000 W possible

High-tech for many industries



For fast and precise joining via pinpoint micro-laser welding in the smallest of spaces, our machining centre is used in the following industries:

- Medical technology
- Dental technology
- Sensor manufacturing
- Electronics manufacturing
- Contact scanning
- E-mobility
- Battery technology
- Jewellery machining
- Precision engineering

Our sales partner:

Your competent partner for a secure connection

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