



SOLIDCUTTER - THE 3D LASER CUTTING HEAD

The SolidCutter is designed for the automated laser cutting of 3D components - with a focus on use in the automotive industry, particularly in the body-in-white sector. Ideal for cutting cut-outs in profiles made of thin, high-strength steel, the cutting head offers maximum process stability and simple integration at the same time.

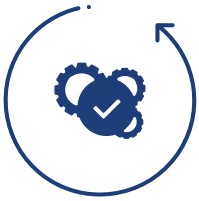
The complete control loop for distance sensors enables autonomous laser cutting of complex-shaped components, maximum feed rate and consistently high cutting quality. The combination of compact design, low weight and reliability makes it the ideal tool for 24/7 series production in robot cells.

Typical applications

- 3D contour and perforation machining on car body components
- Cutting of deep-drawn or bent steel profiles
- Bevel cutting for weld seam preparation possible
- Integration into robot systems or gantry systems

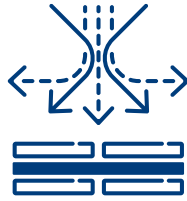


YOUR ADVANTAGES AT A GLANCE



Efficient & robust

- Optimum cutting quality at maximum processing speed
- Reliable performance under harsh industrial conditions
- The integrated linear axis corrects tolerances of the component
- Dust-protected optics and completely sealed beam path



Flexible & integrable

- Choice of focal lengths and cooling options
- Straight or angled versions
- All media connections in the upper head area
- Simple system integration into automated production lines



User-friendly & safe

- Quick-release coupling for effortless installation
- Crash sensor with emergency stop function
- Breakaway coupling for collision protection

FORMCUTTER PLUS - FOR MAXIMUM PROCESSING ACCURACY

Wherever the processing accuracy of robot arms and gantry systems is not sufficient, the SolidCutter is extended with additional axes to become the FormCutter Plus. The infeed movement is still performed by the robot, while the cutting movement is performed entirely by the FormCutter Plus - many times more precisely and in a significantly shorter time. The range of applications is extremely diverse: from robot applications to „stand-alone“ installations for the mass production of small components.

Advantages of the FormCutter Plus

- Reduces deviations in the robot kinematics
- Increased cutting quality and reproducibility
- Compact and versatile: from the robot to the stand-alone cell
- Working field: 50 × 50 mm



TECHNICAL DATA

Max. laser power	4 kW (with wavelengths from 900 - 1090 nm)
Electronics	Lasermatic® Z
Focal lengths collimation FC	75 mm, 100 mm
Focal lengths FF	75 mm, 100 mm, 125 mm
NA _{max}	0.12 (FC100), 0.16 (FC75)
Stroke	± 15 mm
Axial lengths	from 350 mm
Dimensions (W x D)	approx. 163 x 132 mm
Weight of complete system	6.1 kg



- 1 Fiber socket
- 2 Connections for water cooling and cutting gas
- 3 Motor and gear unit for self-sufficient control loop
- 4 Sensor insert

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