

CUTTING SYSTEM **SOLIDCUTTER**

The SolidCutter has a wide range of applications, including hole cutting in sections of high-strength steel in the automotive industry. And the fast-reacting distance controller guarantees constantly high cutting quality at high speeds – even in the case of complex formed components. The lenses are dustproof-sealed and the beam path is completely sealed. The long lifetime of the optics even in environmentally harsh conditions, the slim design and the easy-access media connections in the upper head area are attractive features for cost-effective integration into automated systems. The SolidCutter is used in systems with diode and solid-state lasers.

EFFICIENT

- high cutting speeds, even at complex 3D components due to highly dynamic integrated Z-drive with closed loop distance control
- minimized interfering contour, slim design, simple cable routing
- completely sealed design using a double chamber concept
- gastight optics chamber, no external purge air
- optimized cutting gas flow with linear characteristics up to 25 bar
- minimum conversion times, long-life optical components

FLEXIBLE

- focal lengths tailored to your application
- straight and angled designs
- all media connections located in upper part
- different coolers

USER FRIENDLY & SAFE

- quick-fasten coupling for simple installation into the machine
- protective crash sensor with EMERGENCY STOP function
- safe break coupling



TECHNICAL SPECIFICATIONS OF THE SOLIDCUTTER

max. laser power	4 kW (with wave lengths of 1030 – 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	approx. 5 kg



- 1 fiber socket
- 2 connections for water cooling and cutting gas
- 3 motor and drive unit for closed loop control circuit
- 4 sensor insert

Wherever the machining accuracy of robot arms and portal systems is not sufficient, the SolidCutter is combined with additional linear drives and used as a “FormCutter Plus”. The robot continues to provide the infeed. But the FormCutter Plus executes all of the cutting movements, which are much more precise and are carried out much faster. The FormCutter Plus is versatile, with applications ranging from robots to “standalone” installation for the mass production of small components. The work area is 50 x 50 mm.



The PRECITEC GROUP provides intelligent and reliable solutions for material processing with lasers and optical measuring technology. We are not just a system and component supplier, but also your professional partner for smooth processing.

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