

## JENOPTIK-VOTAN™ C BIM

### Sets a new generation of laser cutting systems

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- with the advantages of a stationary laser
- with the integration of the laser beam guiding system in the flexible articulated robot
- with a container solution of the cabin

Due to the high linearity, the robot behaves with an extremely high precision, repeatability, dynamic and trajectory control.

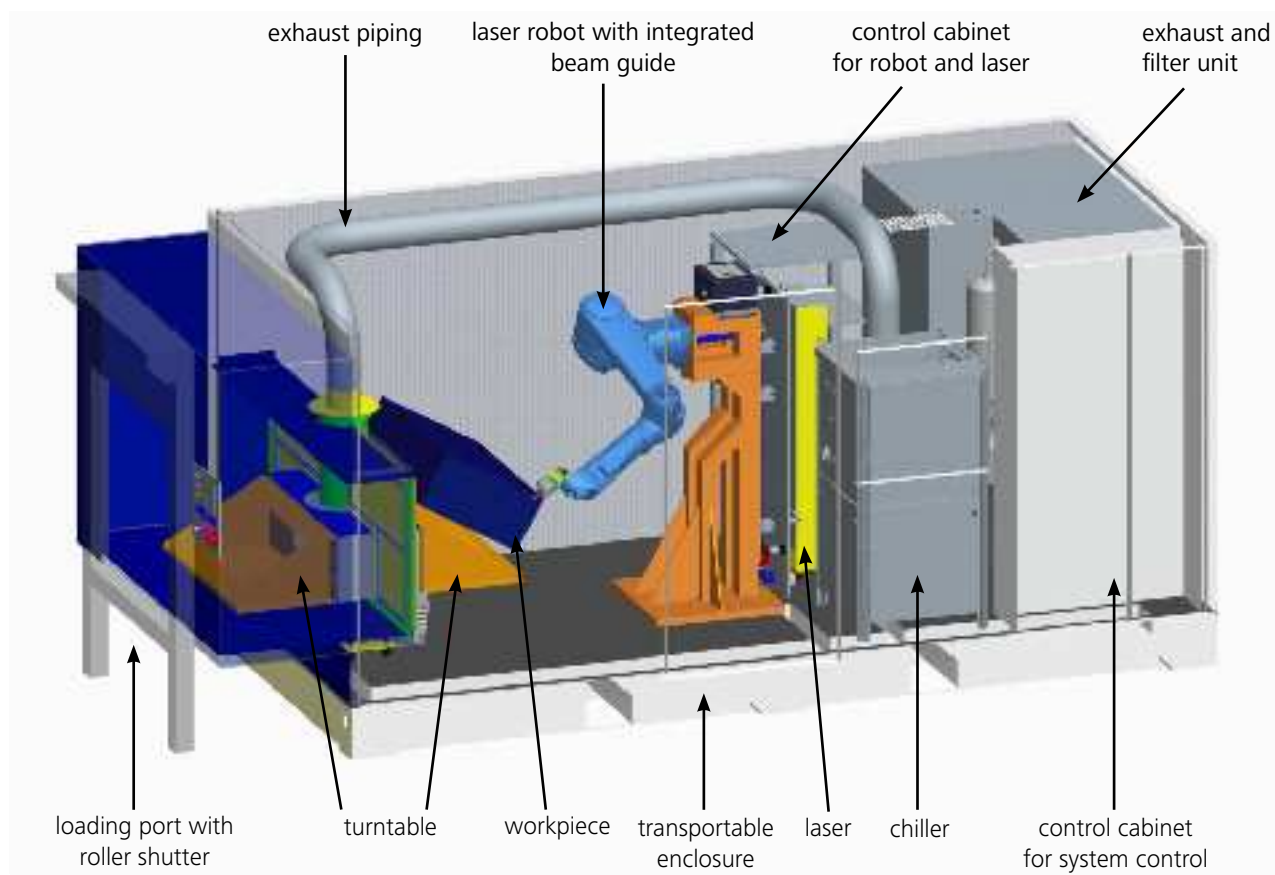


### Advantages

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- Extremely short cycle times can be obtained
- With just a 10 m<sup>2</sup> footprint, the cell is one of the smallest laser robot cutting systems
- The exhaust system already integrated in the turntable ensures the exhaust absorption at the place of production
- The turntable with a diameter of 2100 mm can easily handle large-sized work pieces
- Allows the easy cutting of 3-D outlines
- Due to the integrated container solution of the cabin, the machine is extremely mobile
- For the commissioning of the machine it is only necessary to connect the required media
- The design allows an easy upgrade of the laser power during the lifetime of the machine

Maximum work piece (in mm)	2D 1400 x 700 x 500 3D 1000 x 600 x 300
Cutting speed	500 mm/s
Positioning speed	4000 mm/s
Repeat accuracy	+/- 100 µm
Laser power (in W)	100 - 2500
Turntable diameter	2100 mm
Turntable cycle time	> 2 seconds
Footprint (in mm)	4660 x 2200 x 2260
System control	Siemens S7



## Information



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## JENOPTIK-VOTAN<sup>™</sup> C Gantry-System for 2- and 3-dimensional cutting of plastic materials

Whether you want to handle cutting, scoring or perforation jobs, the JENOPTIK VOTAN<sup>™</sup> C Gantry System combines the requirements of the market for a cost-efficient, flexible and user-friendly system with the premises of highest dynamics and accuracy in the production process. Laser material processing is contactless and the parts do not require finishing operations. Applications are virtually unlimited and include prototypes as well as volume production processes.



Much room for your application. The modular system design can be adapted to part sizes in steps of 10 cm. Thus, the part size is nearly unbounded.

The JENOPTIK VOTAN<sup>™</sup> C Gantry System has a modular design which can be adapted to part sizes in steps of 10 cm. With a high processing speed and an outstanding contour accuracy of +/- 0.1 mm, it is ideal for handling large parts.



A laser beam which a gantry system guides in X, Y and Z directions, processes five sides of the part. In addition, the cutting head can rotate and swivel (A and C axes), which allows 6-side processing to some extent. The laser beam generates a programmed cutting contour in the part, which is clamped to a specific fixture and does not move during processing. Cutting heads with very small diameter are available for areas to which access is difficult or for recessed cuts.

The laser source can be changed at any time; laser sources with output from 100 to 2500 W are available and fit most different applications. The integration of CAD/CAM data is supported by the Post Processor.

A remote maintenance module assists in service and maintenance work.

The system, a compact stand-alone solution, can be integrated in any industrial series production without any problems.

We also supply the suitable equipment for the treatment of the exhaust from cutting. The company's systems branded KATASORB and STRAINSORB use activated charcoal filters or catalytic oxidation. These units are available for flows from 300 – 6000 m<sup>3</sup>/h.



#### Fast and accurate

A gantry system supports processing of parts at 5 sides. In addition, the laser cutting head can rotate and swivel. Processed at high processing speed and with contour accuracy of +/-0.1 mm, parts need no finishing.

## Applications

Cutting, scoring and perforation of 2- and 3-dimensional components, e.g.:

- complete roof modules
- bumpers
- car carpets
- interior trim panels in planes
- household equipment, refrigerators and freezers
- large noise control parts
- sanitary products (shower and bath tubs)
- other large parts made of plastic material, multi-layer material, glass fiber and carbon fiber reinforced plastic material



### Flexible application

Suitable for cutting, scoring and perforation, the JENOPTIK VOTAN™ C Gantry System provides tried and tested quality with all processes for your concrete application – from prototype to volume output.

## Advantages

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- system components build on tried and tested industry solutions
- compact construction
- suitable for large parts
- optionally, the system can be adapted to part sizes in increments of 10 cm
- high process flexibility – from prototypes to volume production
- high processing speed
- high processing accuracy of +/- 0.1 mm
- variable laser output from 100 – 2500 W
- integration of CAD/CAM data by Post Processor
- remote maintenance
- full integration in available transport and handling systems

## Specifications

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Laser output	100 - 2500 W
CNC system	Siemens Sinumerik 840 DI
Axial dimension	2800 x 1800 x 850 mm
Max. part size	2000 x 1100 x 560 mm (L x B x H)
Rotary axis	+/- 220°
Swivel axis	+/- 110°
Repeat accuracy	+/- 0.1 mm
Dimensions	approx. 3900 x 5500 x 5100 mm (H x W x D)
Handling options	ingle handling, shuttle, turntable
Exhaust treatment	KATASORB or STRAINSORB (activated charcoal or catalytic filter systems with flow rates between 300 – 6000 m <sup>3</sup> /h)

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