

## LASER CUTTING HEAD DS 1.5"

The DS 1.5" Cutting Head is designed for bevel cutting and for 3D applications in modern sheet metal processing with CO<sub>2</sub> lasers. It can be used for the burr-free processing of corners, initial cuts, cut sections and radial edges, or for creating bevels in various angled positions. No reworking is necessary and the quality is faultless.

### EFFICIENT

- high cutting speeds with integrated distance sensors
- short conversion times with fast changing of focal lengths
- preadjustable focusing optics

### FLEXIBLE

- cutting of different material thicknesses
- 3D or bevel cutting
- focal lengths tailored to your application

### USERFRIENDLY & SAFE

- simple and safe cartridge replacement system with TCP retention
- different coolers
- all media connections in the upper part



### DISTANCE MEASUREMENT

- constant distance to work piece at any operating temperature
- compensation of material tolerances
- constant cutting quality

### ATTENDANCE CHECK OF CARTRIDGE

- attendance of changeable cartridge
- identification of focal lengths (cartridge)
- no loss of time

### TEMPERATURE MONITORING

- constant temperature monitoring of sensor insert, housing of cutting head and cartridge
- measure of cutting gas pressure
- high process safety

### STABILITY OF PROCESS

- using newest technologies and materials
- high dynamics at constant process stability

KÄRNING XICARA SNIJDEN CORTE KESME  
 KESME DÉCOUPE CUTTING SCHNEIDEN  
 BEKKA TAGLIO 切割 SKÄRNING XICARA

MEASURE

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CONTROL

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PROCESS

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MONITOR

## TECHNICAL SPECIFICATIONS OF THE DS1.5" CUTTING HEAD

max. laser power	6 kW
electronics	Lasermatic®
focal lengths	5" und 7.5"
lens diameter	1.5"
max. free aperture	34 mm
axial length	187 mm <sup>(1)</sup> , 251 mm <sup>(2)</sup>
weight	3.0 kg <sup>(1)</sup> , 4.1 kg <sup>(2)</sup>
max. diameter	110 mm
max. cutting edge	46°
vertical adjustment range	-8 to +2 mm <sup>(1)</sup> , <sup>(2)</sup>
vertical adjustment range with shortened adapter	-6 to -16 mm <sup>(2)</sup> (optional)
<small>(1) at focal length of 5", (2) at focal length of 7.5"</small>	



- 1 hand wheel for vertical adjustment (focal position)
- 2 quick-fastening nuts
- 3 viewing window for vertical adjustment
- 4 focal length detection
- 5 exchangeable cartridge
- 6 gas and water connections
- 7 extension adapter 7.5"
- 8 sensor insert with ceramic part and nozzle

The given data was generated for a typical application and may be different given other circumstances. Furthermore misprints, changes and/or innovations may lead to differences in the listed measurements, technical data and features. Therefore all information is non-binding and technical data, measurements as well as features are not guaranteed by information in this product information.

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