

## LASER CUTTING HEAD HP1.5" M

The HP1.5" M Cutting Head is used with CO<sub>2</sub> lasers in flat bed systems and pipe-cutting machines. Like the other models in the HP series, it is also equipped with the proven cartridge changing system, which enables the fast and easy replacement of the preadjustable cartridges and the cutting of variable work piece thicknesses and types of material. For cutting process automation the head is equipped with several process sensorics.

### EFFICIENT

- high cutting speeds with integrated distance sensors
- short conversion times with fast changing of focal lengths
- faster gas changes
- optimized gas flow

### FLEXIBLE

- cutting of different material thicknesses
- cutting of non-metal materials like plastic or wood
- focal lengths tailored to your application



### DISTANCE MEASUREMENT

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

### MOTORIZED FOCAL POSITION ADJUSTMENT

- cutting of different material thicknesses in the same cycle
- dynamic piercing
- no manual adjustment of focal position

### CARTRIDGE MONITORING

- attendance of 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

### ONLINE PROCESS MONITORING

- Measure of piercing times
- Working with actual piercing times
- Huge cycle time savings
- Lens break sensor identifies damage to the focusing lens as well as larger volumes of spatter

### 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 SPECIFICATION OF HP1.5" M CUTTING HEAD

max. laser power	6 kW
electronics	Lasermatic®
focal lengths	5" and 7.5" / 10" optional
lens diameter	1.5"
max. free aperture	33 mm
axial length	approx. 294 mm
weight	4.9 kg
cutting gas pressure	max. 25 bar
vertical adjustment range	-14 to +6 mm
movement speed of the lens	25 mm/s



- 1** media connection for air and water cooling circuits
- 2** sensor connection
- 3** exchangeable cartridge for focal lengths 5", 7.5", 10"
- 4** 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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