

## LASER CUTTING HEAD HP2" M

The HP2" M Cutting Head is used for modern sheet metal processing in flat bed systems and pipe cutting systems with CO<sub>2</sub> lasers. The time-tested cartridge replacement system enables the fast and simple replacement of the pre-adjustable cartridges and the cutting of various work piece thicknesses and types of material. For cutting process automation the head is equipped with several process sensor systems.

### EFFICIENT

- high cutting speed with integrated distance sensors
- short conversion times with fast changing of focal lengths
- fast gas exchange
- 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
- 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

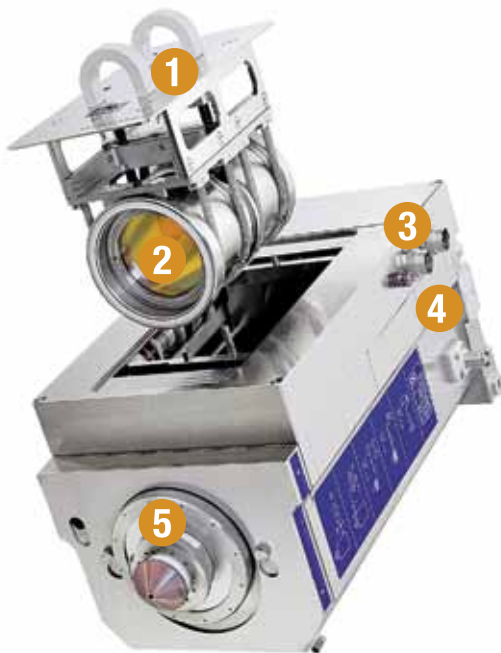
### STABILITY OF PROCESS

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



## TECHNICAL SPECIFICATIONS OF HP2" M CUTTING HEAD

max. laser power	8 kW
measuring principle	Lasermatic®
focal lengths	5" / 7.5" / 10" optional
lens diameter	2"
max. free aperture	46 mm
weight	9.0 kg
dimension (WxD)	180 x 162 mm
vertical adjustment range	+5 to -10 mm



- 1** exchangeable cartridge for different focal lengths
- 2** focusing lens
- 3** sensor connection
- 4** media connection for air and water cooling circuits
- 5** 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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