

CUTTING HEAD HP2"

The HP2" Cutting Head is used for modern sheet metal processing in flat bed systems and pipe cutting systems with CO₂ 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 – ideal for job & shop operation.

EFFICIENT

- high cutting speed with integrated distance sensors
- short conversion times with fast changing of focal lengths
- pre-adjustable focusing optics

FLEXIBLE

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

USER FRIENDLY & SAFE

- simple and save cartridge replacement system
- different cooling
- media connections all in the upper part
- optimized gas flow



DISTANCE MEASUREMENT

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

TEMPERATURE MONITORING

- constant temperature monitoring of sensor insert
- 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

MEASURE

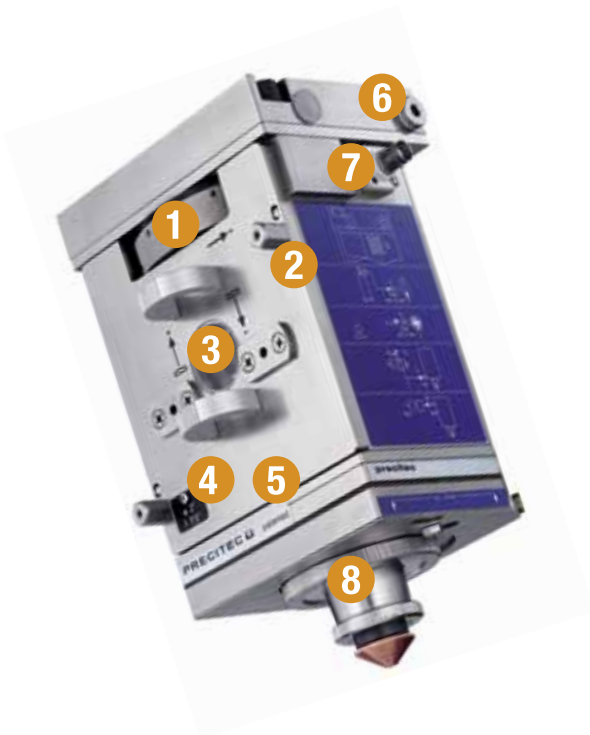
CONTROL

PROCESS

MONITOR

TECHNICAL SPECIFICATIONS OF HP2" CUTTING HEAD

max. laser power	8 kW
measuring principles	Lasermatic® / Lasermatic® Z
focal lengths	5" / 7.5" / 10" optional
lens diameter	2"
max. free aperture	46 mm
weight	5.3 kg
dimension (WxD)	172.6 x 132 mm
vertical adjustment range	+10 to -18 mm (focal length 5": +10 to -10 mm)



- 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 for use with different focal lengths
- 6 media connections for air and water cooling circuits
- 7 sensor connection
- 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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