

LASER CUTTING HEAD HP1.5"

The HP1.5" Cutting Head is used for modern sheet metal processing in flatbed and pipe-cutting systems. The time-tested cartridge replacement system enables the fast and simple replacement of the preadjustable cartridges and the cutting of variable work piece thicknesses and types of material – ideal for job & shop operation.

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

USER FRIENDLY & SAFE

- simple and safe cartridge replacement system with TCP retention
- different cooling possibilities
- all media connections 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

SKÄRNING X/CARA SNIJDEN CORTE KESME
KESME DÉCOUPE CUTTING SCHNEIDEN
RESKA TAGLIO 切割 SKÄRNING X/CARA

MEASURE

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CONTROL

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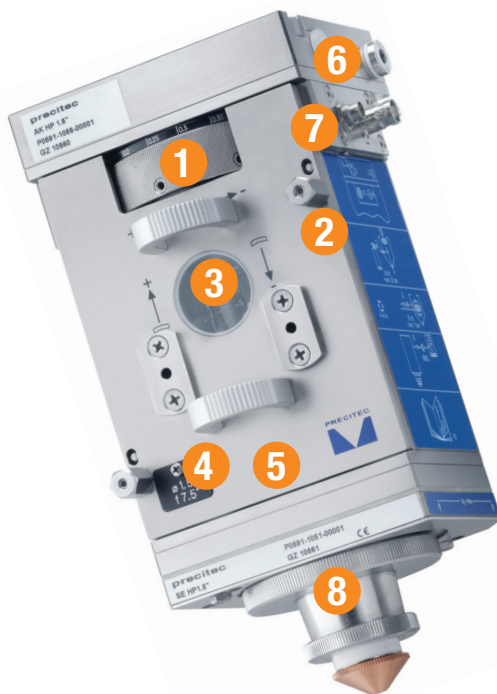
PROCESS

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MONITOR

TECHNICAL SPECIFICATIONS OF THE HP1.5" CUTTING HEAD

max. laser power	6 kW
electronics	Lasermatic®
focal lengths	3.75" / 5" / 7.5" / 10" optional
lens diameter	1.5"
max. free aperture	33 mm
axial length	236 mm (at focal lengths of 3.75" / 5" / 7.5")
weight	approx. 4.0 kg
dimension (W x T)	123 mm x 116 mm
vertical adjustment range	-20 to +10 mm (at focal length of 3.75": -6 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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