

MINICUTTER – FOR 2D AND 3D APPLICATIONS

The MiniCutter is a real all-round talent. It is compact, light and cuts thin metals efficiently and cheaply with fiber guided laser of up to 4 kW.

The fast-reaction distance control system guarantees a constant cutting quality particularly when cutting complexes shapes. The slim design enables a high accessibility for cutting strongly curved parts. But not only in robotic applications the processing head has many advantages. Also in flatbed cutting the MiniCutter 2D is working very well thanks to the compact shape of the sensor insert.

For reliable operation both cutting heads versions are protected from melt splatter, metallic fumes and cutting gas by a protective window. The focal position can be adjusted from outside in a lateral and vertical position.

EFFICIENT

- excellent value for money
- simple and rapid changing of protective window cartridge (no tools required)
- sophisticated design of mechanical components

FLEXIBLE

- focal lengths can be adapted perfectly to the application
- Plug & Play system
- Adaption to customized Z-axis possible

USER FRIENDLY & SAFE

- temperature stable distance control
- sealed beam path
- scale for setting the focal position in lateral and vertical direction from outside
- high-quality optics
- slim and sturdy design



MiniCutter 2D



MiniCutter 3D

MEASURE

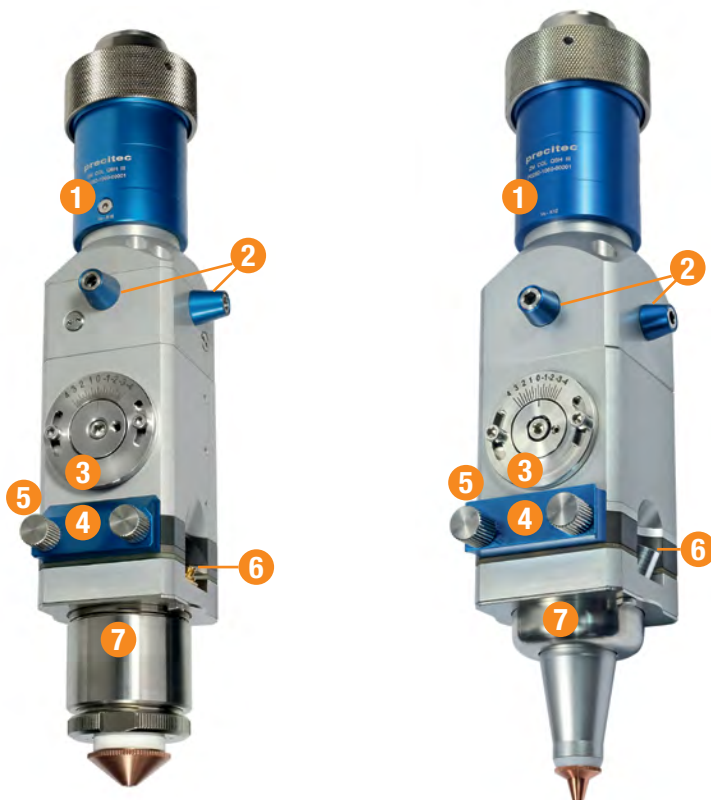
CONTROL

PROCESS

MONITOR

TECHNICAL SPECIFICATIONS OF MINICUTTER

max. laser power	4 kW (for wavelengths of 1030 – 1090 nm)
NA _{max}	0.13 @FC75 (MiniCutter 2D: focussing lenses of 100 mm, 125 mm) (MiniCutter 3D: focussing lenses of 75 mm, 100 mm, 125 mm, 150 mm)
dimensions MiniCutter 3D (W x D x H)	50 x 50 x 258 mm (FF75), 50 x 50 x 283 mm (FF100), 50 x 50 x 303 mm (FF125), 50 x 50 x 328 mm (FF150)
weight	1.4 kg
vertical adjustment range	±4 mm
max. cutting gas pressure	20 bar



- 1 fiber socket
- 2 horizontal adjustment
- 3 vertical adjustment
- 4 protective glass cartridge
- 5 cutting gas connection
- 6 connection for distance controller
- 7 sensor insert

focal length FF = 100 mm

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.