



Fine Cutting Head for flat bed systems

Finest contours - smooth cutting surfaces - no further processing necessary



In the field of laser technology, new application fields are continually opening up for laser cutting. The Fine Cutting Head, integrated in a flat bed system with a small X/Y table offers a compact solution for the cutting of different materials in the thin metal sheet sector. Prototypes and smaller production runs can be produced quickly with a high degree of accuracy, at a reasonable cost and with short setup times. Fields of application are the precision engineering, jewellery and clock and watch industries. Used in combination with solid-state lasers, even highly reflective materials like gold, brass, bronze and silver can be cut.

>> EFFICIENT

- burr-free cutting
- fast and precise working
- high cutting speeds with integrated distance sensors
- excellent price/performance ratio

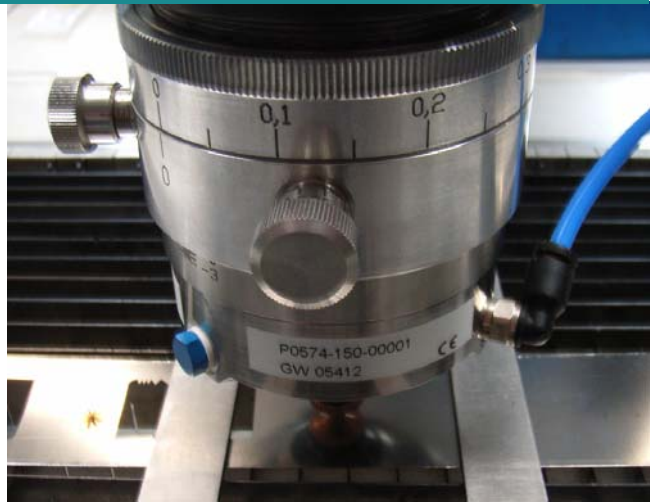
>> FLEXIBLE

- slim head - modular design
- plug & play system
- optical components customised for your system

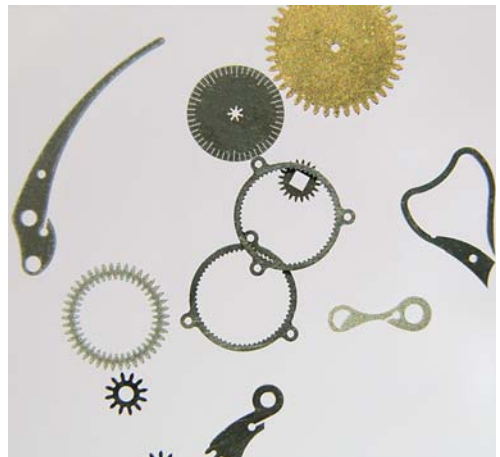
>> USER-FRIENDLY & SAFE

- lens adjusts under pressure
- fast change of protective window
- high-quality optics

Examples for Application



Highly precise parts are processed in the precision engineering and clock and watch industries.

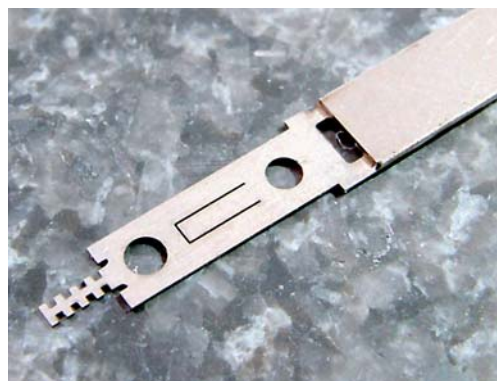


finished parts for the clock and watch industry

>> The Fine Cutting Head can be used in systems with

Nd:YAG lasers
disc lasers
fibre lasers
CO₂ lasers

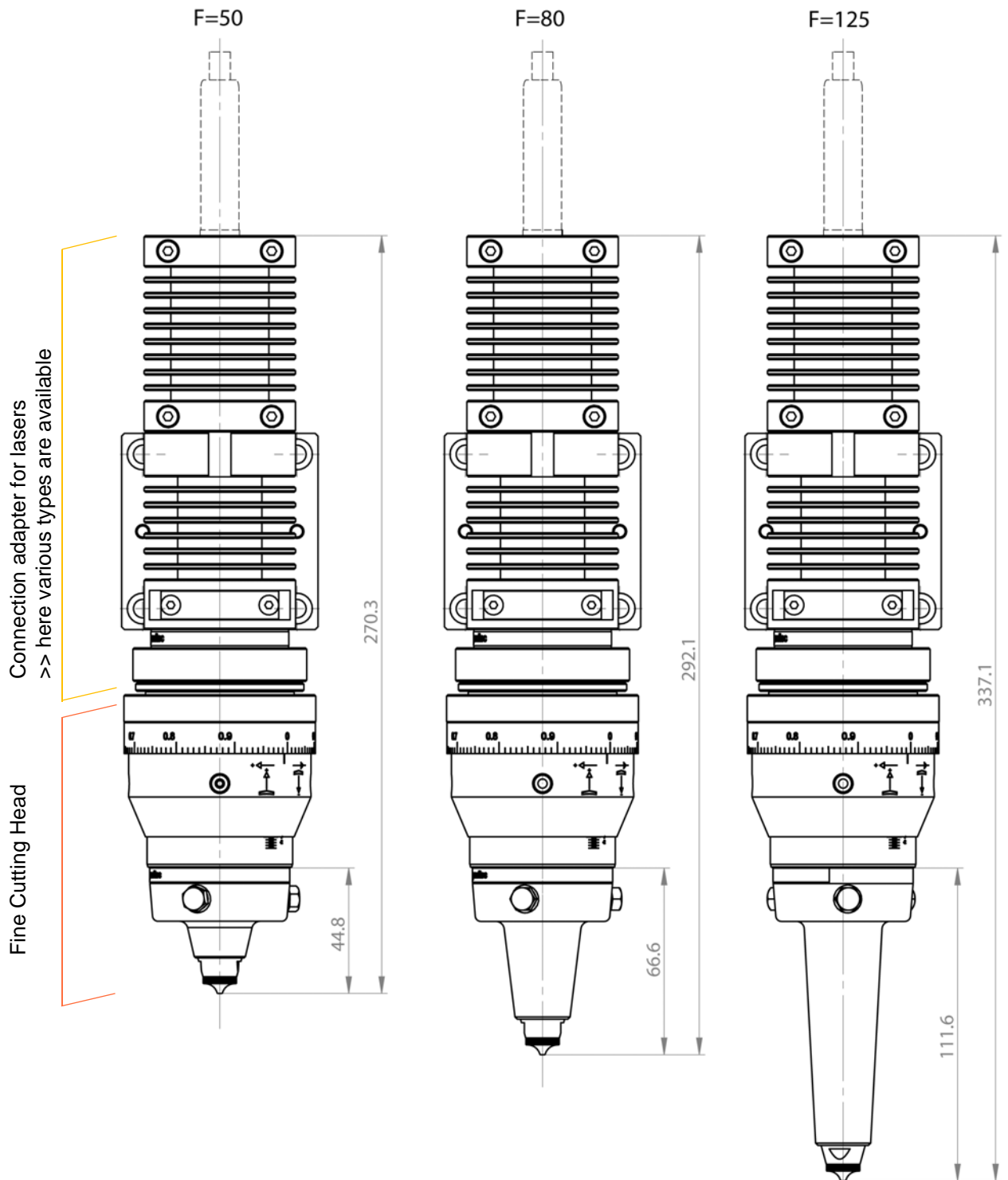
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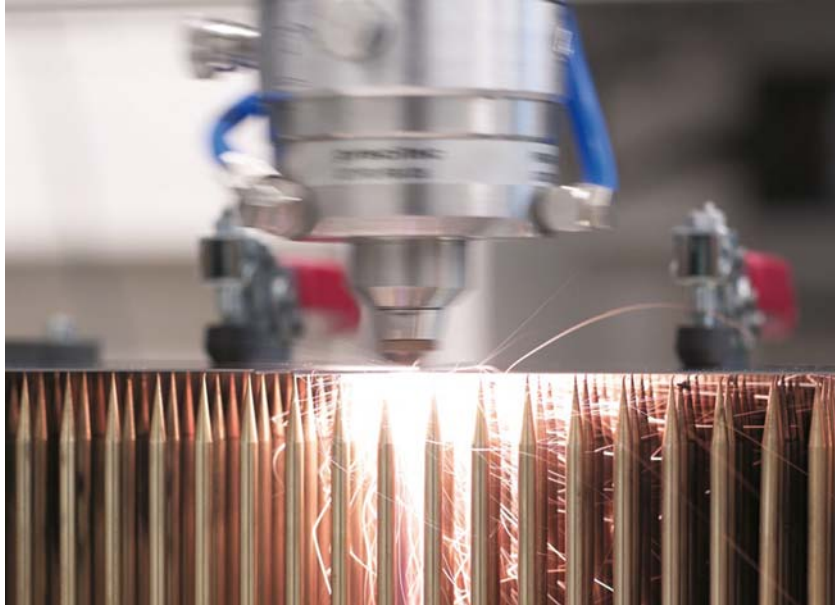


cut leaf springs



Different Focal Lengths





The processing of printed circuit boards and composite materials are further examples of successful cutting with the Fine Cutting Head.

Technical Specifications of Fine Cutting Head

max. laser power for solid-state laser	500 W (for wave lengths 1030 to 1090 nm)
max. laser power for CO ₂ laser	1000 W (for wave lengths 10600 nm)
focal lengths for solid-state laser	50 mm, 80 mm, 125 mm
focal lengths for CO ₂ laser	2", 3", 5"
max. free aperture	16 mm
axial length	94 mm, 116 mm, 190 mm
mass	1.1 kg (at focal lengths of 50 mm)
dimensions	Ø 68 mm
electronics	Lasermatic® Z

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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