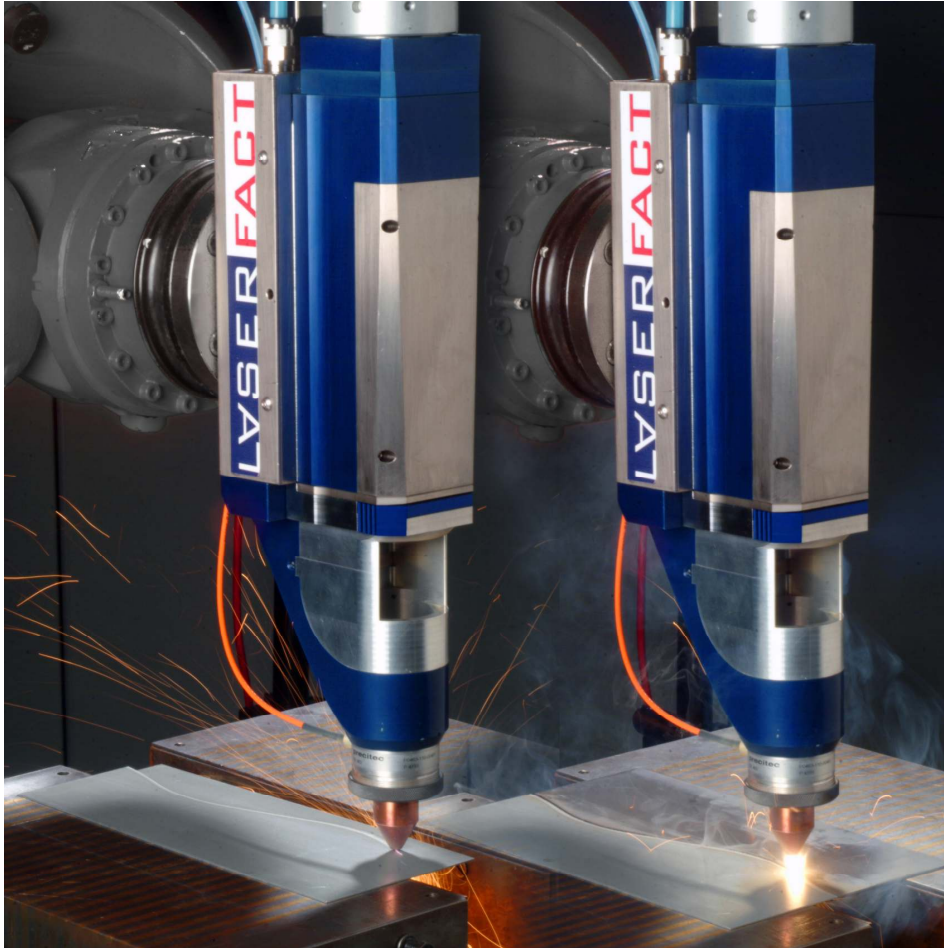


Laserfact F2-Y

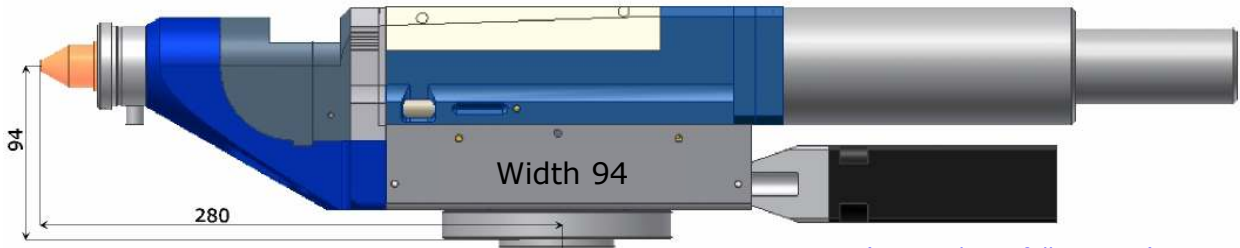
The combi-head for solid-state lasers
Laser cutting and laser welding with a single tool






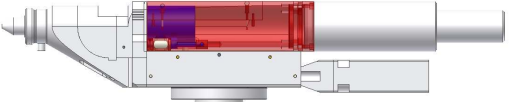
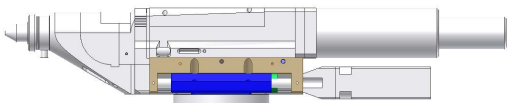


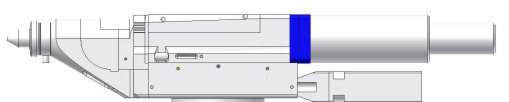

- ▷ Slender design for excellent 3-D accessibility
- ▷ Total weight < 7 kg (without collimation)
- ▷ Autonomous nozzle decouples pressure chamber from optics (patent Fraunhofer ILT)
- ▷ Effective crossjet
- ▷ Focal length 200-300 mm
- ▷ Quicksnap optics module
- ▷ Reliable adjustments (x, y, z)
- ▷ Cover slide drawer
- ▷ Capacitive height control
- ▷ Fast response z-axis drive (0,5 g)

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(Figure shows full version)

 <p>Nozzle module</p>	<ul style="list-style-type: none"> • Autonomous nozzle (patent Fraunhofer ILT) • Cutting pressures up to 30 bar possible • Capacitive height sensor • Nozzle easy to change
 <p>Crossjet</p>	<ul style="list-style-type: none"> • Integrated crossjet • Effective protection of optics • Multijet technique
 <p>Cover slide drawer</p>	<ul style="list-style-type: none"> • Water cooled cover slide drawer • Cover slide easy to change • Drawer is interlocked • Optical monitoring of the degree of contamination (option)
 <p>Quicksnap optics module</p>	<ul style="list-style-type: none"> • Focal lengths from 200 to 300 mm • Quick change feature of optics module • Adjusting range of focal position 25mm • High laser powers possible (standard up to 5 kW)
 <p>Height axis</p>	<ul style="list-style-type: none"> • Fast response z-axis • $\pm 15\text{mm}$ drive path • Internal connection lines for gases, water and controls • Integrated xy-adjustments for beam alignment • Guides and drive with ball-bearings
 <p>Drive system</p>	<ul style="list-style-type: none"> • Synchronous motor with holding break • Digital drive control device • 0,5 g acceleration
 <p>Adapter flange</p>	<ul style="list-style-type: none"> • Available with all typical mounting flanges • Option: customized adapter flanges
 <p>Collimation optics mount</p>	<ul style="list-style-type: none"> • Available with all typical mounting flanges • Option: customized adapter flanges
 <p>Collimation optics</p>	<p>3 options:</p> <ul style="list-style-type: none"> • Integration of typical standard collimation optics • Provision by the customer • application-specific design adapted to type of laser and fiber