

Laserfact F2-X

The coaxial combi-head for CO₂- and solid-state lasers

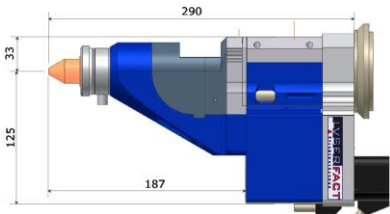
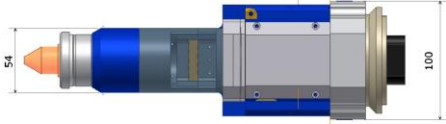
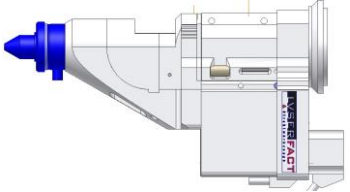
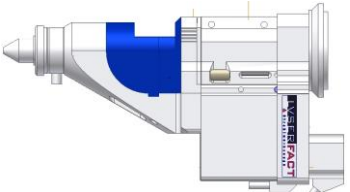
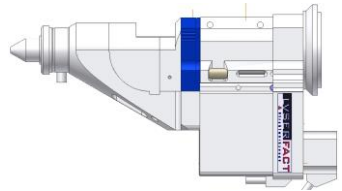
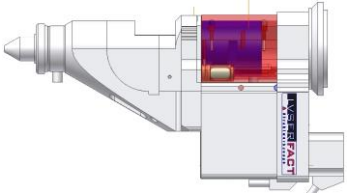
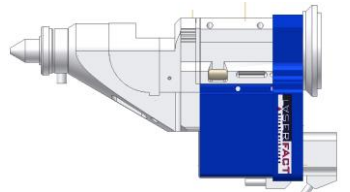
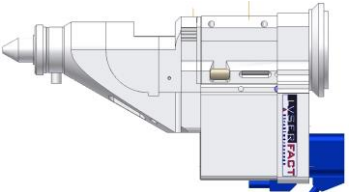
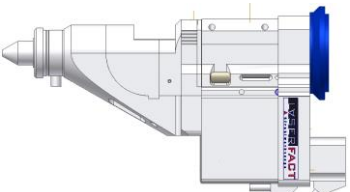
Laser cutting and laser welding with a single tool



- ▷ Slender design for excellent 3-D accessibility
- ▷ Total weight < 5 kg
- ▷ Autonomous nozzle decouples pressure chamber from optics (patent Fraunhofer ILT)
- ▷ Effective crossjet
- ▷ Focal length 200-250 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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	 <p>(Figure shows full version)</p>
 <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 250 mm • Quick change feature of optics module • Adjusting range of focal position 20 mm • High laser powers possible (standard up to 5 KW)
 <p>Height axis</p>	<ul style="list-style-type: none"> • Fast response z-axis • $\pm 7,5$ 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 • 0,5g acceleration
 <p>Adapter flange</p>	<ul style="list-style-type: none"> • Available with all typical mounting flanges • Option. customized adapter flanges