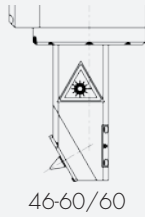
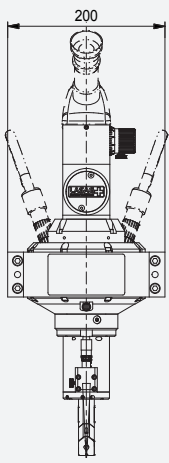


## QFS 50<sup>+</sup>

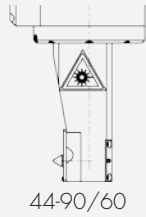
Fiber Laser Processing System  
for scribing applications

- Scribing of connecting rod eyes from motorbikes to trucks
- Scribing of whole engine blocks
- Scribing of crank shaft bearings

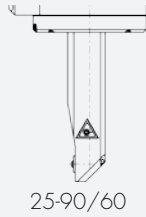




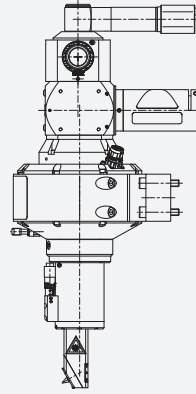
46-60/60



44-90/60



25-90/60



# QFS 50

<b>Laser source</b>	<b>QFS 50</b>
Laser type	fiber laser
Wavelength	1055 - 1070 nm
Repetition rate	50 - 200 kHz
Pulse duration	150 - 200 ns
Operation mode	Q-switched / pulsed
Output power	50 W
Long-term stability	± 1 %
Red aiming beam	< 0.2 mW
Optical fiber cable	4.7 m, non-detachable
Minimal bending radius	100 mm
<b>Processing head</b>	<b>FLBK 46-90/60 or 44-60/60 or 25-90/60</b>
Dimensions processing head	200 x 540 x approx. 550 mm (w x h x d)
Weight processing head	approx. 9 kg
Motor type	torque motor
Conrod eye	diameter > 25 mm, thickness < 60 mm
Gas nozzle diameter	0.5mm / 1mm
Gas pressure	3 bar typ. / 6 bar max.
Gas type	dry, oil free compressed air
Processing angle	60° or 90°
Rotating angle	programmable
Viewing	45° monocular
<b>Supply Cabinet</b>	
Dimensions housing	600 x 660 x 950 mm (w x h x d)
Laser unit QFS 50	19" rack-mount, 6 HU
User interfaces laser unit	RS 232 / digital / TCP / IP / Profibus
Motor control unit	19" rack-mount, 3 U
User interfaces driver unit	digital / RS 232 (for configuration)
Total weight	approx. 90 kg (Cabinet), 21 kg (19" Rack)
Protection rating	IP54
<b>Installation and ambient conditions</b>	
Supply voltage	100 - 230 V ± 10%, 50 - 60 Hz, 1P + E
Power consumption, max.	approx. 900 W typ.
Cooling	air-cooled
Ambient temperature max.	10 - 35 °C (full power)
Relative humidity max.	20 - 90% (non condensing)
PC for configuration	customer supplied
<b>Options</b>	
CCD camera, Profibus for motor driver unit	
<b>Compliance with standards</b>	
CE compliant, FDA compliant	

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Specifications subject to change without notice