LASAG QFS 50

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
## Specifications

### Laser source
- **QFS 50**
- 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

### Processing head
- **FLBK SC 90/60 or FLBK SC 60/60**
- 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 > 35 mm, thickness < 60 mm
- Gas nozzle diameter: 0.5 mm / 1 mm
- 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

### Supply Cabinet
- 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 / Profinet
- 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

### Installation and ambient conditions
- 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

### Options
- **CCD camera, Profibus for motor driver unit**
- **Compliance with standards**
- CE compliant, FDA compliant

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Specification subject to change without notice.

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**DANGER**

Visible and invisible laser radiation. Keep eyes or skin exposed to direct or scattered radiation away from your body. Always use personal protective equipment when this laser product is used.