LASONALL FS

Powerful markings on metals with fiber laser technology
in 20 and 50 Watt

Laser marking with ÖSTLING marking systems - Maximum marking quality „Made in Germany"

The fiber laser systems of the new „LASONALL FS" generation from ÖSTLING are the perfect solution for powerful direct markings on a variety of metals. These include, among others, various steels, iron, nickel, titanium, aluminum, copper, and precious metals.

The laser control unit incorporates all power and control electronics in a compact upright format. It can be easily connected to a Windows computer or laptop via „Plug & Play" using a USB cable or TCP/IP.

Quick Infos and Features:

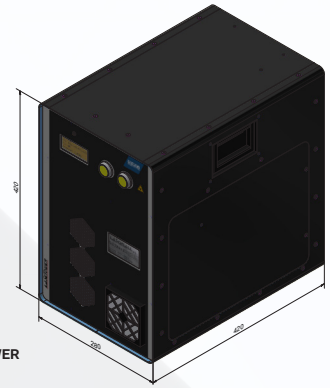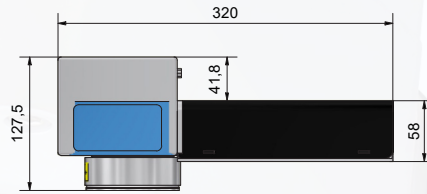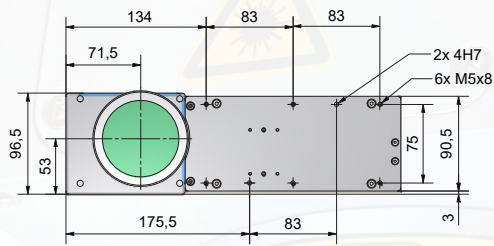|	
Simple application, high speed, and flexibility	Flexible and compact control unit, „Plug & Play" connection via USB or TCP/IP
Easy integration due to compact design	User-friendly XS Designer software; existing ÖSTLING marking data can be reused
Optimization of marking/cycle times due to laser pulse properties	All safety inputs can achieve applications up to Category 4/ PLe according to EN ISO 13849-1 or SIL 3 according to EN IEC 62061.
Highest marking quality and precision on various metals	Flexible integration with VBScript, Python, and ActiveX, optionally with SAP interface

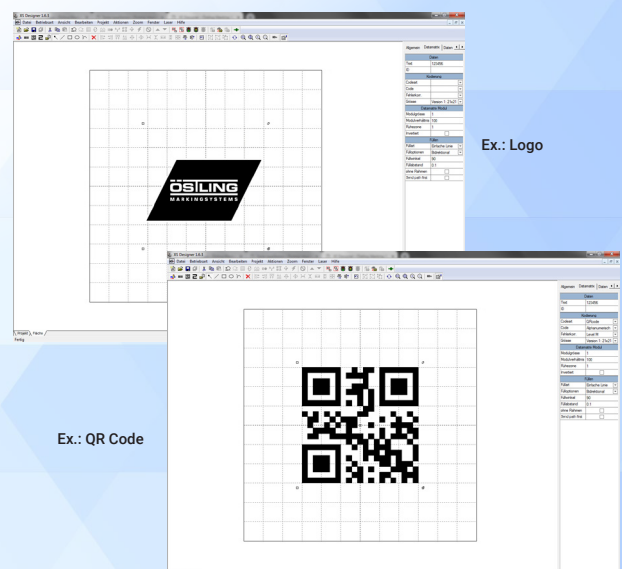**Östling Marking Systems GmbH**
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For more information, scan the code

LASETOWER

Technical specifications

	LaSonall FS 20	LaSonall FS 50
Laser source	Ytterbium fiber laser (1060~1085 nm) actively Q-switched	
Output power	20 W	50 W
Laser class	4	4
Pulse duration	< 130 ns @ 20 kHz	< 130 ns @ 50 kHz
Beam quality M2	< 1,5	< 1,8
Frequency range	20 - 60 kHz	50 - 100 kHz
Output power stability	< 3 %	< 3 %
Beam diameter	6 - 8 mm	6 - 8 mm
Single pulse energy	1 mJ @ 20 kHz	1 mJ @ 50 kHz
Nominal voltage	90 - 264 V AC	
Power consumption	max. 600 W	
Cooling	Air-cooled	
Resonator dimensions (W x D x H)	93,5 x 311,4 x 124 mm	
Tower dimensions (W x D x H)	280 x 420 x 420 mm	
Hardware interfaces	USB, Ethernet, 3 stepper motor axes, galvanically isolated interfaces (EAs, USB, Ethernet), two safe inputs up to PL e (Cat. 4) according to ISO 13849-1, Optional ProfiNet/ProfiBus Integration	
Operating temperature	+10 to + 35 °C (46 to 95 °F)	
Storage temperature	0 bis 60 °C	
PL / Category	Functional safety: Secure inputs up to PLe / Cat. 4 DIN EN ISO 13891-1	

F-Theta lenses and „XS Designer" software for the highest marking quality

The LASONALL FS lasers achieve the highest marking quality on a marking field size of up to 300 x 300 mm (depending on the F-Theta lens used / standard 130 x 130 mm). A constant, highly precise marking is guaranteed throughout the entire marking field.

With the intuitive Windows-based software „XS Designer," creativity knows no bounds. Our laser marking systems are also ideal for automated markings such as consecutive serial numbers, DataMatrix codes, barcodes, etc. Existing marking files used on ÖSTLING lasers can be easily reused.

Ex.: Logo

Ex.: QR Code