

LA SONALL XS

XL technology in XS format

5 to 40W laser systems
Optimum performance for every material


Simply compact


Laser marking offers great advantages in direct industrial product marking. Ease of use, speed and flexibility are combined in a single product that can be applied to a wide range of materials and surfaces. With the associated software, there are virtually no limits to your marking ideas. Our laser marking systems are ideally suited for automated marking, such as sequential serial numbers, 2D codes, etc. Östling lasers meet the requirements of Performance Level e (PL e) according to EN ISO 13849-1 and are therefore easy to integrate.


Simply precise


The precision F-Theta-lenses of the XS Laser achieve highest marking quality on marking field diagonals of up to 410 mm. Focus position shifts, as they occur with a conventional focusing lens, are corrected by the F-Theta-lenses. Constant, high-precision marking is guaranteed throughout the entire marking field.


The individual lenses are coated with a coating that achieves particularly low reflection and absorption values. Back reflections are therefore no problem for XS lasers.



Compact and lightweight construction

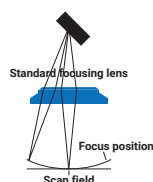

Functional safety
Two safe inputs up to PL e (Cat. 4) according to EN ISO 13849-1


OEM models and Complete solutions available


User-friendly software under Windows 7 / 8 / 10

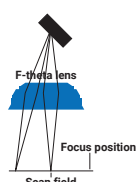

Extremely long service life of the laser diode


Unsurpassed flexibility for high quality



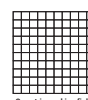
Conventional solution with Standard focusing lens

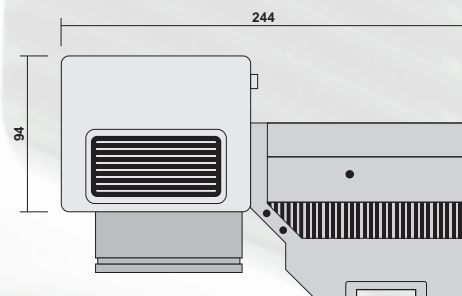
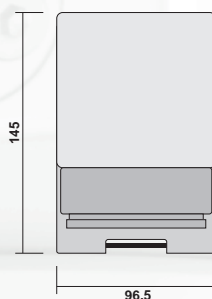
Depending on the deflection angle, the laser beam changes the focus position at different positions. When marking, there are clearly visible differences in the marking field.



ÖSTLING solution with F-theta lens

The ÖSTLING F-Theta lenses, also called Planfeld lenses, enable a constant focus position of the laser beam.





	5W	10W	20W	30W	40W
Laser source	Solid state laser Nd: YVO4 (1064 nm), diode pumped, active Q-switched				
Laser class	4	4	4	4	4
Wavelength	1064 nm	1064 nm	1064 nm	1064 nm	1064 nm
Pulse-width	5 to 20 ns	5 to 20 ns	5 to 20 ns	7 to 40 ns	5 to 35 ns
Beam quality	< 1,5	< 2	< 2,2	< 2,5	< 2,5
Cooling	Air-cooled by integrated thermoelectric fan				
Target diode	integrated red laser diode $\lambda = 635 \text{ nm}$ 3 mW (class 2M)				
Weight	Resonator: 4,5 Kg / Rack: 15 Kg			Resonator: 6,5 Kg / Rack: 18 Kg	
Resonator dimension	244 x 98 x 145 mm			244 x 98 x 145 mm	
Rack dimension	434 x 454 x 177 mm			434 x 454 x 223 mm	
Electr. connection values	90 to 264 VAC, 50/60 Hz, < 600 W @ XS 40				
Operating temperature	+10 bis +35 °C (46 to 95 °F)				
Air humidity	< 90% non-condensing				
PL / Category	Functional safety: Safe inputs up to PLe / Kat. 4				