Technical Data LasOnAll XS

Beam Source	**XS 5**	**XS 10**	**XS 20**	**XS 30**	**XS 40**
Laser power	5 W	10 W	20 W	30 W	40 W
Beam quality	$M^2 < 1.5$	$M^2 < 2$	$M^2 = 2$	$M^2 = 2.2$	$M^2 = 2.5$
Wave length	solid state laser Nd:YVO_4 (1064 nm), diode-pumped, active Q-switched				
Cooling system	active air, PWM-controlled fans				
Pulse length	4 - 40ns			on request	on request
Frequency	15 - 150 kHz				
Peak Power	max. 150kW				
Aiming beam	Laser diode λ=635 nm / 3mW (class 2M)				
Laser safety class	4				
Deflexion unit					
Spot velocity	max. 7000 mm/s				
Focal length	**FL 100**	**FL 160**	**FL 254**		
Work area	55x55 mm	120x120mm	180x180mm		
Min. spot diameter	< 40 µm	< 65 µm	< 100 µm		
Work distance	98 +- 3 mm	180 +- 6 mm	290 +- 8 mm		
Connection					
Computer connection	USB				
Digital outputs	ready, end, finished, alarm + user-defined				
Digital inputs	system start, start-stop, shutter, interlock + user-defined				
Marking software	XS Designer				
Common					
Power connection	90 – 264 VAC, 47 – 63 Hz, 600 W				
Operating temperature range	+10 - +35 °C (46 - 95°F)				
Humidity	< 90% non condensing				
Weight rack	14 kg				
Dimensions rack	435x175x405 mm^3				
Weight laser head	4 kg				
Dimensions laser head	245x145x100 mm^3				
Software XS Designer					
Min. hardware requirements	Pentium 300 MHz (best 500 MHz), USB 2.0				
Operating system	Windows 2000 (SP3), XP, Vista				
Memory capacity	64 MB RAM, 40 MB free hard disks capacity				
Display	colour display with 1280x1024 pixel				
Symbols					
Size	True-Type-Fonts filled and unfilled, Single Line Fonts				
Arrangement	???				
Spacing	arbitrary				
Graphic design					
Elements	Lines, rectangles and circles filled und unfilled, splinefunction				
Graphic upload	Vector: HPGL (*.plt), DXF / Bitmap: BMP, JPG				
Codes					
Bar codes	2/5, Code 3/9, Code 128, EAN 8 & 13, UPC				
2D Codes	Datamatrix, PDF 417, QR Code, Code 16K				
Further features					
	flexible serial numbers, date- und timefunctions				
	free programmable script interface for variable data subprograms, text- und data transfer Excel charts, RS232 and Ethernet interfaces, user-defined input mask				
	extensive help menus und functions				