Technical Data LasOnAll XS

Laser System	XS 5	XS 10	XS 20	XS 30	XS 40
Laser Source	DPSS Laser Nd:YVO4 (1064 nm), active Q-Switched				
Nominal average cw Laser Power	5 W	10 W	20 W	30 W	40 W
Beam Quality M_	< 1.5	< 2	< 2.2	< 2.5	< 2.5
Beam Diameter	5 mm	6 mm	6 mm	8 mm	9 mm
Pulse Duration Range	5 - 40 ns	4 - 20 ns	4 - 20 ns	5 - 40 ns	5 - 40 ns
Pulse Duration @ 20 kHz	12 ns	6 ns	7 ns	12 ns	11 ns
Pulse Energy @ 20 kHz	0,25 mJ	0,35 mJ	0,65 mJ	1,1 mJ	1,35 mJ
Pulse Peak Power @ 20 kHz	20 kW	60 kW	90 kW	100 kW	120 kW
Long Term Aver. Power instability	< 5%	< 5%	< 5%	< 5%	< 5%
Cooling system	integrated thermo-electrical air cooling system				
Aiming Diode	integrated visible red Laser diode, _=635nm 3mW (Class 2M)				
Laser Class	⚠4				

Common

Resonator Weight	4,5 kg			6,5 kg	
Resonator Dimensions	245x145x100 mm			356x123x130 mm	
Rack Weight	15 kg			18 kg	
Rack Dimensions	435x175x405 mm				
Power Supply	90 to 264 VAC (single Phase), 50/60 Hz, < 500 W @ XS 40				
Operating Temperature Range	+10 up to +35 °C (46 up to 95°F)				
Humidity	< 90% none condensing				

Communication Interface

PC Interface	USB 2.0
Digital Output	Ready, Busy, Marking done, Alarm + User Defined.
Digital Input	System Start, Start-/Stop Marking, Shutter, Interlock + User Defined
Marking Software	XS Designer

Scan Head

			Standard		
F-Theta Objective	FL 100	FL 160	FL 254	FL 330	FL 420
Marking Area	65x65 mm	120x120mm	190x190mm	220x220mm	on Request
Spot Size @ Focal Position	< 40 µm	< 65 µm	< 100 µm	< 130 µm	
Working Distance (to Lens)	98 ± 0,5 mm	176 ± 1 mm	296 ± 2 mm	388 ± 3 mm	
Scan Speed	up to 5000 mm/s				

XS Designer Marking Software

Min. Hardware Requirements	Pentium III 1GHz or equal, USB 2.0
Operating System	Windows 2000 (SP3), XP, Vista, Win 7
Min. Memory	RAM as recommended by OS, 100 MB on HDD for Marking Software
Display	min. SVGA Color

Text

Fonts	True-Type Fonts (filled/unfilled), Single-Line Fonts
Orientation	user defined
Letter Spacing	user defined
Arc Text	Scalable and adjustable

Graphic

Elements	Line, Rectangle, Circle, Ellipse (filled/unfilled)
Formats	Vector: HPGL (*.plt), DXF / Raster: BMP, JPG, GIF

Codes

Barcodes	2/5, Code 3/9, Code 128, EAN 8 & 13, UPC
Matrix	2D Data Matrix, PDF 417, QR Code, Code 16K

Misc Features

flexible serialization, Date and Time functions

user programmable Script interface to integrate variable Data and sub routines, Text- and Data exchange with Data Base systems, Excel sheets, RS232, Ethernet interfaces and user defined Input mask.

Wide range of internal functions and user support functionality

Options

Wide Range Of Laser Workstations / Work Area enclosures
Programmable X-, Y-, Z-, Rotary-Axis (up to 3 with standard controller)
Externally-Mounted Focus-Finder Diode
Vacuum System
Remote Operation Via Optional External Command Box (e.g. Start/Stop, etc)

ÖSTLING
MARKINGSYSTEMS

Our worldwide sales network consists of ÖSTLING subsidiaries and numerous highly qualified commercial agencies.

The following list only shows the subsidiaries. If required we can put you in touch with an agent/representive in your local area.

Germany = Headquarter
ÖSTLING Markiersysteme GmbH
Brosshauser Strasse 27
DE-42697 Solingen
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Sweden
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Singapore
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101, Kitchener Road #01-01
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China
ÖSTLING Marking Systems Ltd.
Tai Tau Leng, Sheung Shui, N.T.
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CN-Hong Kong
Phone: +852 26700011

ÖSTLING
Available around the world...
Quality made in Solingen, Germany

XL-technology
in an XS size

Lasonall ™ XS

XL technology
in an XS size

CEO and founder Rolf Östling with LasOnAll XS

For more than four decades, Östling has been a leader in product marking in the global market. Our technologies allow customers to permanently apply identification and coding onto their products.

The laser systems of the LasOnAll XS series are at the top of the industry for features and performance. XL technology in the XS size.

Laser marking with ÖSTLING

Using a high precision laser beam, we can mark many types of materials and products.

Today, the Östling´s LasOnAll laser marking systems are installed at numerous locations worldwide. Marking all types of electronic components, medical instruments, tools, plastics, etc.

Many manufactures of automotive and aerospace components rely on our laser marking systems to guarantee the traceability of their components through their production process under the toughest working conditions.

XS5
Perfect marks at a competetive price

XS10
The price-performance winner

XS20
The versatile allrounder

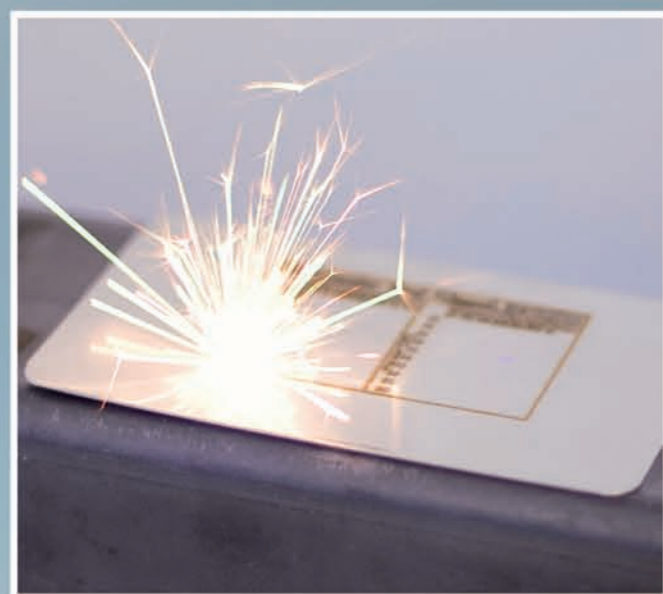### XS30
High performance for deep marks

XS40
Peak power, even faster

XL technology in an XS size – A compact laser like never before.

Its compact construction and low weight are perfect for easy and space-saving integration.

This makes the XS laser ideal for integration into all kinds of industrial environments, even under difficult conditions.

Deep laser markings with LasOnAll XS

Single work station LasOnAll RONDO©

Desktop work station for LasOnAll XS

Energy balance

The low power consumption of the XS Series make it extremely economical to run on a continuous basis. The power consumption is only max. 600W. The entire system is air-cooled which eliminates the need of water based cooling systems.
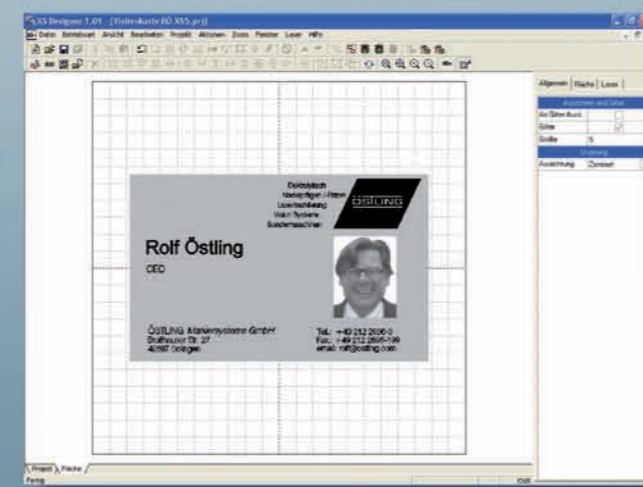
Plug and Play Control System

The control system of the ÖSTLING LasOnAll XS is packaged into a compact 19" rack mount case. The unit is equipped with all the required power and control components. This allows for the use of a single USB connection to a laptop or desktop PC to control the complete system.

Software LasOnAll XS Designer

LasOnAll XS Designer has a simple graphical user interface that allows the programmer to easily create complex layouts of texts, graphics, barcodes, data matrix codes and more. Additionally the software allows for control of multiples axes and user protected programming access levels making XS designer very easy to use.
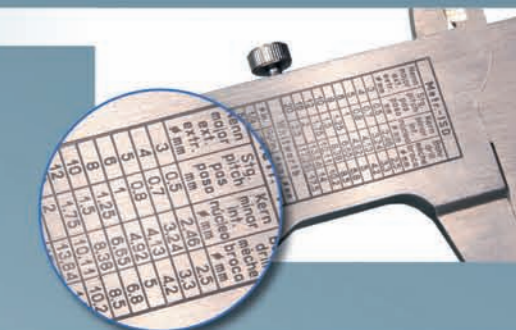
Customized Integration

We can provide a turn-key custom system for you or give you the tools to flawlessly integrate our marking systems into your operation. Our own design and engineering department will assist you with every step of the integration of our marking systems into your production environment.

Lasonall™ XS – the ideal solution for:
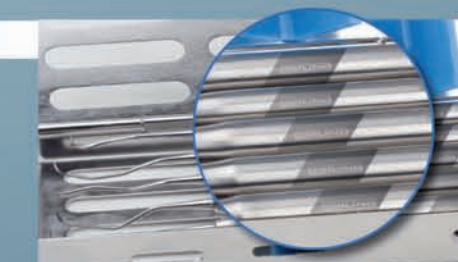
tool manufacturing industry

automotive industry

plastics processing

medical and surgical instruments and implants

electronics industry

decorative marking