ÖSTLING - Your partner of marking needs!

ÖSTLING Product Overview

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ÖSTLING Product Overview

Welcome!

This is our general product guide.

Please contact us for any information. You can request this comfortably via the contact-form of our website.
Naturally we are also glad to help you by phone.

Marking Systems are ...

... system components that enable you to apply markings of just about any design, on a vast variety of materials of most different shapes and contours.

Examples are
- Serial-numbers
- Barcodes
- 2D-codes (DataMatrix)
- Company logos
- Scales, dates and all other possible alpha-numeric data

Traceability
A growing number of product recalls, especially in the Automotive industry, is a result of ever increasing and refined laws on product liability. In order to avoid loss of image and the high cost of a recall campaign, mark your products with a DataMatrix code. This durable and easy to apply marking is readable even many years after its application. The Code can include Product information such as: Serial numbers, date of production, batch, supplier, etc. – and all that in the smallest possible space.

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Needle Marking / Scraping

The Dot-Marking is created by an oscillating indenting tool (needle) that is moved on 2 axis by X/Y stepper motors while the punch action is powered by compressed air. The resulting dots (indentations) are so close together that they will form a line that will then create your individual designs.
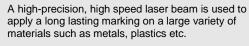
Unlike Dot- (Needle) marking the Scraped marking is created by a diamond tipped tool that is pressed into the work-piece pneumatically and then moved by x/y stepper-motors. The resulting marking is an elegant, clearly defined line.

Sample Markings

- Long lasting markings on almost all materials
- Hand-held, tabletop and integration solutions

- Adjustable for countless shapes and contours of marking items
- Easy to customise through modular product program

Laser Marking

A high-precision, high speed laser beam is used to apply a long lasting marking on a large variety of materials such as metals, plastics etc.

Typical applications are the marking of tools, ball bearings, metal-parts in the automotive and aircraft industries, plastics and other components for household goods, high-precision micro-coding on medical instruments and decorative markings on all kinds of promotional gifts as well as brand products.

Sample Markings

- Highest Beam Quality
- Compact Industrial Design
- Very High Marking Speed
- No external chiller required
- User Friendly Windows-based software

- Long-lasting laserdiode
- OEM-systems available
- Custom made solutions by our engineering dept.

Electrolytic Marking

The electrolytic marking is based on an electro-chemical reaction. The exact image of a stencil is reproduced on the surface of any conductive material through the reaction of the electrolytic solution and a low current. The design of the stencil is not limited in any way.

Depending on the surface conditions and strength of current, the marking will appear in black or white (inverted), without damage, corrosion or negative influence of the marked item.

Sample Markings

- Cost effective and long lasting markings on conductive materials
- Unlimited design possibilities for the stencils

- Suitable for larger marking areas
- Addaptable to different shapes and contours
- Easy to customise to your needs due to modular product program

2D-Code/DataMatrix

Increasing pressure on product safety and traceability in all industries demand an easy read and write marking that can do more than the humble barcode.

With a 2D-Code (DataMatrix), applied by either ÖSTLING laser, dot marking or electrolytic marking, information such as serial-numbers, batch-numbers, composition of components or even the supplier of the marked item can be stored on a surface as small as the head of a nail.

That marking can now be read instantly by an Östling 2D-Code reader/camera. ÖSTLING 2D-Code readers stand out due to:

- Highest read rate, even in low contrast conditions or off reflecting surfaces
- Robust industrial yet ergonomic design
- Target pointer

- Easy data readout on a Windows based surface
- Flexible and user-friendly wireless Bluetooth version available

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Needle Markers – For Integration

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Semi-Automatic Systems
Stencil Creation

2D-Code Readers

INFO-BOX

All PinMark needle markers are suitable for the integration in production-lines or manufacturing-cells.

Our engineering department will customise any application according to your requirements.

PinMark 3/5 E

Art. 40351000

D x B x H:	111 x 111 x 203 mm
Weight:	1,8 Kg
Marking Field:	30 x 50 mm
Resolution:	0,1 mm
Speed:	depending on marking parameters
Control Unit:	UMC 112, UMC eco, UMC box
Needle System:	WE3, WE3 long, WP3
Power Supply:	230V 50Hz, opt. 115V 60Hz
Compressed Air:	max. 6 bar, 6 mm

PinMark 4/6 E

Art. 40461000

D x B x H:	150 x 145 x 252 mm
Weight:	3,8 Kg
Marking Field:	40 x 60 mm
Resolution:	0,1 mm
Speed:	depending on marking parameters
Control Unit:	UMC 112, UMC eco, UMC box
Needle System:	WE2, WE2 4mm, WE2 long, WP2
Power Supply:	230V 50Hz, opt. 115V 60Hz
Compressed Air:	max. 6 bar, 6 mm

PinMark 5/10 E

Art. 40511000

D x B x H:	261 x 190 x 132 mm
Weight:	3,9 Kg
Marking Field:	50 x 100 mm
Resolution:	0,1 mm
Speed:	depending on marking parameters
Control Unit:	UMC 112, UMC eco, UMC box
Needle System:	WE1, WE2, WE2 4mm, WE2 long, WP2
Power Supply:	230V 50Hz, opt. 115V 60Hz
Compressed Air:	max. 6 bar, 6 mm

PinMark 8/14 E

Art. 40841000

D x B x H:	318 x 255 x 170 mm
Weight:	7,4 Kg
Marking Field:	80 x 140 mm
Resolution:	0,1 mm
Speed:	depending on marking parameters
Control Unit:	UMC 112, UMC eco, UMC box
Needle System:	WE1, WE2, WE2 4mm, WE2 long, WE4, WP2
Power Supply:	230V 50Hz, opt. 115V 60Hz
Compressed Air:	max. 6 bar, 8 mm

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Needle Markers – Tabletop Units

PinMark 3/5 T

Art. 40351000 (head)
Art. 44351000 (table)

PinMark 5/10 T

Art. 40512000

PinMark 8/14 T

Art. 40842000

Abbildung: 5/10 T

Zeichnung: 5/10 T

D x B x H:	300 x 250 x 450 mm
Weight:	13 Kg
Marking Field:	30 x 50 mm
Resolution:	0,1 mm
Speed:	depending on marking parameters
Control Unit:	UMC 112, UMC eco, UMC box
Needle System:	WE3, WE3 long, WP3
Power Supply:	230V 50Hz, opt. 115V 60Hz
Compressed Air:	max. 6 bar, 6 mm

D x B x H:	335 x 330 x 460 mm
Weight:	15,5 Kg
Marking Field:	50 x 100 mm
Resolution:	0,1 mm
Speed:	depending on marking parameters
Control Unit:	UMC 112, UMC eco, UMC box
Needle System:	WE1, WE2, WE2 4mm, WE2 long, WP2
Power Supply:	230V 50Hz, opt. 115V 60Hz
Compressed Air:	max. 6 bar, 6 mm

D x B x H:	471 x 350 x 507 mm
Weight:	21 Kg
Marking Field:	80 x 140 mm
Resolution:	0,1 mm
Speed:	depending on marking parameters
Control Unit:	UMC 112, UMC eco, UMC box
Needle System:	WE1, WE2, WE2 4mm, WE2 long, WE4, WP2
Power Supply:	230V 50Hz, opt. 115V 60Hz
Compressed Air:	max. 6 bar, 8 mm

INFO-BOX

Needle markers as desktop devices are particularly suitable for small batches and single pieces.

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Needle Markers - Hand-Held Units

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2D-Code Readers

PinMark 3/5 H

Art. 40353000

PinMark 5/10 H

Art. 40513000

PinMark 8/14 H

Art. 40843000

Abbildung: 5/10 H

Zeichnung: 5/10 H

D x B x H:	175 x 265 x 286 mm
Weight:	3 Kg
Marking Field:	30 x 50 mm
Resolution:	0,1 mm
Speed:	depending on marking parameters
Control Unit:	UMC 112, UMC eco, UMC box
Needle System:	WE3, WE3 long, WP3
Power Supply:	230V 50Hz, opt. 115V 60Hz
Compressed Air:	max. 6 bar, 6 mm

D x B x H:	273 x 271 x 287 mm
Weight:	5,5 Kg
Marking Field:	50 x 100 mm
Resolution:	0,1 mm
Speed:	depending on marking parameters
Control Unit:	UMC 112, UMC eco, UMC box
Needle System:	WE1, WE2, WE2 4mm, WE2 long, WP2
Power Supply:	230V 50Hz, opt. 115V 60Hz
Compressed Air:	max. 6 bar, 6 mm

D x B x H:	220 x 347 x 320 mm
Weight:	11 Kg
Marking Field:	80 x 140 mm
Resolution:	0,1 mm
Speed:	depending on marking parameters
Control Unit:	UMC 112, UMC eco, UMC box
Needle System:	WE1, WE2, WE2 4mm, WE2 long, WE4, WP2
Power Supply:	230V 50Hz, opt. 115V 60Hz
Compressed Air:	max. 6 bar, 8 mm

INFO-BOX

The hand-held units are used where the product-handling is difficult due to weight or size.

The hand-helds are suitable in particular for markings with space restrictions.

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Needle Markers - Hand- / Table-Combination

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Electrolytic Systems
Control Units
Semi-Automatic Systems
Stencil Creation

2D-Code Readers

INFO-BOX

Enjoy the freedom of anyone solution: Hand-held or the more stable tabletop mount.

You can switch between the two modes very quick and easily.

PinMark 3/5 K

Art. 40353000 (hand)
Art. 44351000 (table)

PinMark 5/10 K

Art. 40514000

PinMark 8/14 K

Art. 40844000

5/10 K

Drawing: 5/10 K

D x B x H:	300 x 250 x 450 mm
Weight:	13 Kg with table / 3 Kg (no table)
Marking Field:	30 x 50 mm
Resolution:	0,1 mm
Speed:	depending on marking parameters
Control Unit:	UMC 112, UMC eco, UMC box
Needle System:	WE3, WE3 long, WP3
Power Supply:	230V 50Hz, opt. 115V 60Hz
Compressed Air:	max. 6 bar, 6 mm

D x B x H:	273 x 271 x 287 mm
Weight:	15,5 Kg with table / 5,5 Kg (no table)
Marking Field:	50 x 100 mm
Resolution:	0,1 mm
Speed:	depending on marking parameters
Control Unit:	UMC 112, UMC eco, UMC box
Needle System:	WE1, WE2, WE2 4mm, WE2 long, WP2
Power Supply:	230V 50Hz, opt. 115V 60Hz
Compressed Air:	max. 6 bar, 6 mm

D x B x H:	220 x 347 x 320 mm
Weight:	21 Kg with table / 11 Kg (no table)
Marking Field:	80 x 140 mm
Resolution:	0,1 mm
Speed:	depending on marking parameters
Control Unit:	UMC 112, UMC eco, UMC box
Needle System:	WE1, WE2, WE2 4mm, WE2 long, WE4, WP2
Power Supply:	230V 50Hz, opt. 115V 60Hz
Compressed Air:	max. 6 bar, 8 mm

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Needle Markers for Beginners

INFO-BOX

The MagicPin-series is the value for money solution for working with needle markers.

With high quality functionalities the systems are suitable for all important applications - in their expandability however reduced.

Magic*Pin* 100 T

Art. 40111000

D x B x H:	188 x 207 x 141 mm
Weight:	4,5 Kg
Marking Field:	100 x 100 mm
Resolution:	0,1 mm
Speed:	depending on marking parameters
Control Unit:	UMC eco, UMC box*
Needle System:	WE2
Power Supply:	via control unit (100 - 230 V, 50/60 Hz)
Compressed Air:	max. 6 bar, 6 mm

* Not UMC 112

Magic*Pin* H

Art. 40351100

D x B x H:	130 x 115 x 260 mm
Weight:	2,5 Kg
Marking Field:	30 x 50 mm
Resolution:	0,1 mm
Speed:	depending on marking parameters
Control Unit:	UMC eco, UMC box*
Needle System:	WE3, WP3
Power Supply:	230V 50Hz, opt. 115V 60Hz
Compressed Air:	max. 6 bar, 6 mm

* Not UMC 112

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Scriber Systems: For Integration

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Stencil Creation

2D-Code Readers

INFO-BOX

Unlike Dot- (Needle) marking the scribe marking is created by a diamond tipped tool that is pressed into the work-piece pneumatically and then moved by x/y stepper-motors. The resulting marking is an elegant, clearly defined line.

You can use the ÖSTLING scribe systems as needle markers simply through changing the needle system.

PinMark 4/6 SP/RT E

Art. 47461112

D x B x H:	200 x 200 x 345 mm
Weight:	12,2 Kg
Marking Field:	40 x 60 mm
Noise Level:	< 70 dB (A)
Speed:	depending on marking parameters
Control Unit:	UMC 112
Needle System:	WE1R, WE2, WE2 4mm, WE2 long, WP2
Power Supply:	230V 50Hz, opt. 115V 60Hz
Compressed Air:	max. 4 bar, 8 mm

PinMark 8/14 SP/RT E

Art. 47841112

D x B x H:	265 x 426 x 255 mm
Weight:	20,5 Kg
Marking Field:	80 x 140 mm
Noise Level:	< 70 dB (A)
Speed:	depending on marking parameters
Control Unit:	UMC 112
Needle System:	WE1R, WE1, WE2, WE2 4mm, WE2 long, WE4, WP2
Power Supply:	230V 50Hz, opt. 115V 60Hz
Compressed Air:	max. 4 bar, 8 mm

PinMark 15/20 SP/RT E

Art. 47521112

D x B x H:	335 x 486 x 260 mm
Weight:	23,9 Kg
Marking Field:	150 x 200 mm
Noise Level:	< 70 dB (A)
Speed:	depending on marking parameters
Control Unit:	UMC 112
Needle System:	WE1R, WE1, WE2, WE2 4mm, WE2 long, WE4, WP2
Power Supply:	230V 50Hz, opt. 115V 60Hz
Compressed Air:	max. 4 bar, 8 mm

PinMark SP/RT 15/30 E

Art. 47531112

similar to 15/20

D x B x H:	on request
Weight:	on request
Marking Field:	150 x 300 mm
Noise Level:	< 70 dB (A)
Speed:	depending on marking parameters
Control Unit:	UMC 112
Needle System:	WE1R, WE1, WE2, WE2 4mm, WE2 long, WE4, WP2
Power Supply:	230V 50Hz, opt. 115V 60Hz
Compressed Air:	max. 4 bar, 8 mm

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Scriber Systems: Integration / Tabletop Units

INFO-BOX

For small batches and dissimilar workpieces.

**PinMark
DeepScribe 4/8**

Art. 41481000

**PinMark
4/6 SP/RT T**

Art. 47462112

**PinMark
8/14 SP/RT T**

Art. 47842112

4/6 SP/RT T with rotation-axis

DeepScribe was developed due to market demand for a marking tool that can deliver very deep and long lasting markings directly onto the workpiece.

Designed for the application of VIN markings on cast iron and aluminiunm, such as engine blocks in the automotive industry, the marking is deep enough to be removed only with brute force.

The system consists of a re-developed and reinforced marking head with a new needle guide. Robust linear guides and spindle driven accentuators ensure a smooth and powerful operation. The system is low mentainance with access panels for service purposes.

Due to the heavier, more robust design of the scribe tool (needle) the rebound of the needle is now handled by a second compressed air connection. This also ensures a very accurate depth adjustment up to a depth of 8 mm.

The more powerful marking head is delivered with a modified UMC 112 controller.

D x B x H:	450 x 360 x 800 mm
Weight:	22 Kg including table
Marking Field:	40 x 60 mm
Noise Level:	< 70 dB (A)
Speed:	depending on marking parameters
Control Unit:	UMC 112
Needle System:	WE1R, WE2, WE2 4mm, WE2 long, WP2
Power Supply:	230V 50Hz, opt. 115V 60Hz
Compressed Air:	max. 4 bar, 6 mm

D x B x H:	450 x 360 x 800 mm
Weight:	30 Kg incl. table
Marking Field:	80 x 140 mm
Noise Level:	< 70 dB (A)
Speed:	depending on marking parameters
Control Unit:	UMC 112
Needle System:	WE1R, WE1, WE2, WE2 4mm, WE2 long, WE4, WP2
Power Supply:	230V 50Hz, opt. 115V 60Hz
Compressed Air:	max. 4 bar, 6 mm

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Flexible Scriber Systems

INFO-BOX

Flexible and robust

Mobile, compact scribe systems on trolley with integrated drawer for the controller

**PinMark
4/6 SP/RT T R**

Art. 47465112

**PinMark
8/14 SP/RT T R**

Art. 47845112

**PinMark
15/20 SP/RT T R**

Art. 47525112

**PinMark
SP/RT 15/30 T R**

Art. 47535112

D x B x H:	on request
Weight:	on request
Marking Field:	40 x 60 mm
Noise Level:	< 70 dB (A)
Speed:	depending on marking parameters
Control Unit:	UMC 112 (included)
Needle System:	WE1R, WE2, WE2 4mm, WE2 long, WP2
Power Supply:	230V 50Hz, opt. 115V 60Hz
Compressed Air:	max. 4 bar, 6 mm

D x B x H:	on request
Weight:	on request
Marking Field:	80 x 140 mm
Noise Level:	< 70 dB (A)
Speed:	depending on marking parameters
Control Unit:	UMC 112 (included)
Needle System:	WE1R, WE1, WE2, WE2 4mm, WE2 long, WE4, WP2
Power Supply:	230V 50Hz, opt. 115V 60Hz
Compressed Air:	max. 4 bar, 8 mm

D x B x H:	on request
Weight:	on request
Marking Field:	150 x 200 mm
Noise Level:	< 70 dB (A)
Speed:	depending on marking parameters
Control Unit:	UMC 112 (included)
Needle System:	WE1R, WE1, WE2, WE2 4mm, WE2 long, WE4, WP2
Power Supply:	230V 50Hz, opt. 115V 60Hz
Compressed Air:	max. 4 bar, 8 mm

D x B x H:	on request
Weight:	on request
Marking Field:	150 x 300 mm
Noise Level:	< 70 dB (A)
Speed:	depending on marking parameters
Control Unit:	UMC 112 (included)
Needle System:	WE1R, WE1, WE2, WE2 4mm, WE2 long, WE4, WP2
Power Supply:	230V 50Hz, opt. 115V 60Hz
Compressed Air:	max. 4 bar, 8 mm

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ÖSILING

Controllers for Needle Marker & Scriber Systems

Introduction

Sample Markings

Needle Marker
Built-In Units
Tabletop Units
Hand-Held Units
Combination Units
Beginner Models

Scribe Systems
Built-In Units
Tabletop Units
Control Units
Needle Systems

Needle Marker Accessory

Laser Marking Systems
Laser Systems
Laser Cabinets
Lenses

Electrolytic Systems
Control Units
Semi-Automatic Systems
Stencil Creation

2D-Code Readers

INFO-BOX

Our state of the art marking controllers enable you to create any kind of marking design such as letters, numbers, logos and DataMatrix Codes.

Easy to use and reliable.

UMC 112

Art. 80102000

CPU:	400 MHz, 128 MB RAM, USB, network, SVGA
Operating System:	Embedded Linux
Memory:	Compact Flash 256 MB, opt. HD
MotorControl Unit:	2 axes, **opt. 4 axes***
Outputs:	8 digital, opt. 32
Inputs:	8 digital, opt. 32
Screen:	SVGA 800 x 600 pix
B x D x H:	443 x 391 x 183 mm
	* X, Y, Z, rotation / 2 marking heads simultan.
Keyboard:	integr. keypad or ext keyboard

UMC eco

Art. 80201000

CPU:	400 MHz, 128 MB RAM, USB, Netzwerk, QVGA
Operating System:	Embedded Linux
Memory:	Compact Flash 256 MB, optional HD
MotorControl Unit:	2 Axes f. 2-phase stepping motors
Outputs:	8 digital
Inputs:	8 digital
Screen:	QVGA 320 x 240 pix.
B x D x H:	310 x 300 x 170 mm
Keyboard:	integr. keypad or ext. keyboard

UMC box

Art. 80231000

CPU:	external PC / not included
Requires:	Interface RS-232, Win2000 or XP
	1 GHz, 512 MB RAM, 1024 x 768 pix.
MotorControl Unit:	2 Axes f. 2-Phase stepping motors
Outputs:	8 digital
Inputs:	8 digital
Keyboard:	integrated keypad or external keyboard at PC
Software:	Pinware 4 for Windows
B x D x H:	310 x 176 x 75 mm

Interfaces (All Controllers) →

USB: keyboard, memorystick, mouse (UMC 112 only) / **Ethernet:** SMB, communication protocol /
RS232: communication protocol / **24V I/O:** start, e-stop, file-select (UMC 112 only) /
Profibus DP (UMC 112 only)

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ÖSTLING

Needle Marker / Scriber Systems Software

Östling PinWare

File-handling:	Integrated
Data-transfer:	USB, Network (SMB)
Interface:	RS-232
Mask:	31 textfields at 50 characters each
Character-fonts:	Standard char. font 'litt.chr'
	accord. DIN 1451, others on request
	(e.g. OCR A). Character fonts
	on BGI-Base can be used

Character height: 0,5 - 99,9 mm, free adjustment
Character spacing: 0 - 10 mm, free adjustment
Character width: 0.1 to 10, free adjustment

Aditional Features

- Teach-in and WYSIWG-positioning
- Sub-sequent numbering
- Automatic date, week, day of the year, month, day, time, shift index
- 2D-Code (DataMatrix)
- Query of text (also with barcode-reader) e.g. before each marking
- Integrated software SPS for adaption to special demands
- Import of HPGL plotting files (*.plt), free choice of scale
- and many more

INFO-BOX

Pinware:

Easy to use with large choice of adjustable functions.

ELECTROLYTIC ETCHING
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ÖSTLING

Needle Systems for Needle Markers & Scribe Systems

INFO-BOX

All needle systems are designed by Östling and optimized for our marking heads.

The right system for any application.

Deep-Marking Needle System WE 1

Art. 45100000

Working Pressure:	4 - 6 bar
Air:	filtered
Screw Thread:	M16 x 1.5
Piston Diameter:	12 mm
Maximum Stroke:	5 mm
Needle Diameter:	4 mm
Needle Tip Angle:	60°, 90° or 120°
Marking Head:	all, without 3/5 und 4/6

Marking Needle System WE 2

Art. 45220000

Working Pressure:	2 - 6 bar
Air:	filtered
Screw Thread:	M16 x 1.5
Piston Diameter:	14 mm
Maximum Stroke:	4 mm
Needle Diameter:	3 mm
Needle Tip Angle:	60°, 90° or 120°
Marking Head:	all, except. 3/5 + Magic*Pin* H

Marking Needle System WE 2, 4 mm

Art. 45240000

Working Pressure:	2 - 6 bar
Air:	filtered
Screw Thread:	M16 x 1.5
Piston Diameter:	14 mm
Maximum Stroke:	4 mm
Needle Diameter:	4 mm
Needle Tip Angle:	60°, 90° or 120°
Marking Head:	all, except. 3/5 + Magic*Pin* H

Marking Needle System WE 2 long

Art. 45200010

Working Pressure:	4 - 6 bar
Air:	filtered
Screw Thread:	M16 x 1.5
Piston Diameter:	14 mm
Maximum Stroke:	3 mm
Needle Diameter:	3 mm
Needle Tip Angle:	60°, 90° or 120°
Needle Length:	128 mm
Marking Head:	all, except. 3/5 + Magic*Pin* H

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ÖSTLING

Needle Systems for Needle Markers & Scribe Systems

INFO-BOX

All needle systems are designed by Östling and optimized for our marking heads.

The right system for any application.

Marking Needle System WE 3

Art. 45300000

Working Pressure:	4 - 6 bar
Air:	filtered
Screw Thread:	M16 x 1
Piston Diameter:	14 mm
Maximum Stroke:	4 mm
Needle Diameter:	3 mm
Needle Tip Angle:	60°, 90° or 120°
Marking Head:	3/5, Magic*Pin* H

Marking Needle System WE 3 long

Art. 45300010

Working Pressure:	4 - 6 bar
Air:	filtered
Screw Thread:	M16 x 1
Piston Diameter:	14 mm
Maximum Stroke:	4 mm
Needle Diameter:	3 mm
Needle Tip Angle:	60°, 90° or 120°
Needle Length:	128 mm
Marking Head:	3/5, Magic*Pin* H

Deep-Marking Needle System WE 4

Art. 45500000

Working Pressure:	4 - 6 bar
Air:	filtered
Screw Thread:	M16 x 1.5
Piston Diameter:	12 mm or 16 mm
Maximum Stroke:	4 mm
Needle Diameter:	5 mm
Needle Tip Angle:	60°, 90° or 120°
Marking Head:	from 8/14

Deep-Marking Needle System WE 4 Steel

Art. 45500100

Working Pressure:	4 - 6 bar
Air:	filtered, oiled
Screw Thread:	M16 x 1.5
Piston Diameter:	12 mm or 16 mm
Maximum Stroke:	4 mm
Needle Diameter:	5 mm
Needle Tip Angle:	60°, 90° or 120°
Marking Head:	ab 8/14

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ÖSTLING

Needle Systems for Needle Markers & Scribe Systems

INFO-BOX

All needle systems are designed by Östling and optimized for our marking heads.

The right system for any application.

Scribing Needle System WE 1R

Art. 45400000

Working Pressure:	1 - 4 bar
Air:	filtered
Screw Thread:	M16 x 1.5
Piston Diameter:	16 mm or 20 mm
Maximum Stroke:	10 mm
Needle Diameter:	3 mm
Needle Tip Angle:	60°, 90° or 120°
Marking Head:	all scribe systems

Marking Needle System WP2

Art. 45700010

Working Pressure:	4 - 6 bar
Air:	filtered
Screw Thread:	M16 x 1.5
Piston Diameter:	10 mm
Maximum Stroke:	10 mm
Needle Diameter:	3 mm
Needle Tip Angle:	60°, 90° or 120°
Marking Head:	all, except. 3/5 + Magic*Pin* H

Marking Needle System WP2, 4mm

Art.

Working Pressure:	4 - 6 bar
Air:	filtered
Screw Thread:	M16 x 1.5
Piston Diameter:	10 mm
Maximum Stroke:	10 mm
Needle Diameter:	4 mm
Needle Tip Angle:	60°, 90° or 120°
Marking Head:	all, except. 3/5 + Magic*Pin* H

Marking Needle System WP3

Art. 45700000

Working Pressure:	4 - 6 bar
Air:	filtered
Screw Thread:	M16 x 1
Piston Diameter:	10 mm
Maximum Stroke:	10 mm
Needle Diameter:	3 mm
Needle Tip Angle:	60°, 90° or 120°
Marking Head:	3/5

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ÖSTLING

Needle Marking Equipment / ID Plate Marking Station

Introduction

Sample Markings

Needle Marker
Built-In Units
Tabletop Units
Hand-Held Units
Combination Units
Beginner Models

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Control Units
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Needle Marker Accessory

Laser Marking Systems
Laser Systems
Laser Cabinets
Lenses

Electrolytic Systems
Control Units
Semi-Automatic Systems
Stencil Creation

2D-Code Readers

**ID Plate Marking
TM 100**

Art. 47000000

Application:	Needlemarkers*
D x B x H:	300 x 600 x 580 mm
Weight:	24 Kg (incl. PM 5/10 and high axis)
Capacity:	Standard 300 mm
Speed:	depending on marking parameters
ID Plates:	min. 32 x 30 mm / max. 100 x 100 mm
Adjustment:	Stepless
Transport Slide:	Pneumatic
Compressed Air:	max. 6 bar (6 mm)
Power Supply:	100 – 230 V, 50/60 Hz, via UMC112
Optional:	Stacker (FIFO)

∗   Laser and electrolytic marking systems on request

INFO-BOX

Continuous marking, in full or semi automatic mode, is assured due to the lightweight yet mechanically robust construction

ELECTROLYTIC ETCHING
PIN MARKING
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ÖSTLING

Laser Marking Systems

INFO-BOX

A high-precision, high speed laser beam is used to apply a long lasting marking on a large variety of materials such as metals, plastics etc.

Always the right solution for your application.

LasOnAll XS5

Art. 70022005

LASER
Wavelength (λ): 1064 nm (Vanadate)
Power: 5 Watt
Pulse frequency: 10 - 150 kHz
Cooling: Air
Lens: RS 163 Standard
Further Information: Lenses Paragraph
Marking field: 130 x 130 mm (Std.)
Power Supply: 90 – 264 VAC, 50/60 Hz

LasOnAll XS 10

Art. 70022010

LASER
Wavelength (λ): 1064 nm (Vanadate)
Power: 10 Watt
Pulse frequency: 10 - 150 kHz
Cooling: Air
Lens: RS 163 Standard
Further Information: Lenses Paragraph
Marking field: 130 x 130 mm (Std.)
Power Supply: 90 – 264 VAC, 50/60 Hz

LasOnAll XS 20

Art. 70022020

LASER
Wavelength (λ): 1064 nm (Vanadate)
Power: 20 Watt
Pulse frequency: 10 – 150 kHz
Cooling: Air
Lens: RS 163 Standard
Further Information: Lenses Paragraph
Marking field: 130 x 130 mm (Std.)
Power Supply: 90 – 264 VAC, 50/60 Hz

LasOnAll XS 30

Art. 70022030

LASER
Wavelength (λ): 1064 nm (Vanadate)
Power: 30 Watt
Pulse frequency: 10 – 150 kHz
Cooling: Air
Lens: 100 mm, 254 mm
Further Information: Lenses Paragraph
Marking field: 180 x 180 mm (Std.)
Power Supply: 90 – 264 VAC, 50/60 Hz

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Laser Marking Systems

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Needle Marker Accessory

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Lenses

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Stencil Creation

2D-Code Readers

INFO-BOX

A high-precision, high speed laser beam is used to apply a long lasting marking on a large variety of materials such as metals, plastics etc.

Always the right solution for your application.

LasOnAll XS 40

Art. 70022040

Lasebox

LASER	
Wavelength (λ):	1064 nm (Vanadate)
Power:	40 Watt
Pulse frequency:	10 - 150 kHz
Cooling:	Air
Lens:	100 mm, 160 mm, 254 mm
Further Information:	Lenses Paragraph
Marking field:	180 x 180 mm (Std.)
Power Supply:	90 – 264 VAC, 50/60 Hz

- Maximum safety (laser protection class 1)
- Mobile and flexible, minimum weight of 33 kg, compact 'TableTop' design
- Automatic sliding door for rapid loading of parts to be marked
- Laser safety glass window for safe setup and observing of the marking process
- Large load capacity up to a size of 375x300x150mm (LxWxH) and up to a weight of 40 kg. It is also possible to remove a panel from the rear of the cabinet, providing the facility to mark much longer components, subject to safety regulations being followed
- Programmable electric Z-axis with height adjustment for easy focusing
- T-slots for quick mounting and setting up of jigs and fixtures
- Near Maintenance free and silent operation
- Available with an optional desk for ergonomic loading and unloading

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ÖSTLING

Laser Cabinets

INFO-BOX

You need an adequate casing around the laser system for the highest possible safety.

All our cabinets are safety class 1.

**LasOnAll
Slide-Table**

Art. 70309996

- Safety class 1 cabinet
- Vision panel: 100 x 200 mm
- Manual high axis
- Slide table for loading one side while marking on the other side
- Max. Load size (B x H x D): 260 x 100 x 210 mm

**LasOnAll
Bench Box**

Art. 70309997

- Safety class 1 cabinet
- Vision panel: 100 x 200 mm
- Manual high axis
- Front- and side door
- Max. Load size (B x H x D): 300 x 300 x 300 mm
- Complete and cost-saving solution

**LasOnAll
Glove Box**

Art. 70309998

- Safety class 1 cabinet
- Vision panel: 100 x 200 mm
- Automatically high axis (350 mm)
- Automatically door
- Max. Load size (B x H x D): 300 x 250 x 300 mm

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Laser Cabinets & Controller

**LasOnAll
RST 800
(Rotation table)**

Art. 70309999

- Safety class 1 cabinet
- Vision panel: 100 x 200 mm
- rotation table: diameter 800 mm; two positions for loading one position while marking the other position
- Automatic high axis (250 mm)
- Max. Load size (B x H x D): 350 x 150 x 350 mm

LasOnAll Rondo

Art. 70024000

Casing	Safety class 1
H x Ø	720 x 755 mm
Max Load size:	(B x H x D): 500 x 250 x 450 mm*
T-slot plate	500 x 375 mm
Weight	65 Kg incl. LasOnAll
High axis	Standard elektric
Laser systemsl	LasOnAll 1 eco or 2 or 3

Optional
- Automatic high axis
- Rotation axis
- Trolley
- Focus finder
- Automatic door

* using a f-Theta-lens = 160 mm

UMC box Laser

2 axes
Art. 80231100

Motor Control Unit: 2 axes f. 2-Phase stepping motors
B x D x H: 310 x 176 x 75 mm

UMC box to control high axis, rotation axis.

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ÖSTLING

Laser Marking (Software & Lenses)

Laser Software LasOnAll-XS Designer

Östing Markiersysteme

The software package LasOnAll-XS Designer prepares high-quality vector-graphics for laser marking.

The possibility of setting a high range of parameters allows you to create e.g. serial-numbers, customer-datas etc.

Additionally it can control X-, Y- high- and rotation-axes.

Supported files: PLT, DXF, BMP, JPG, GIF, LCD

Lens Linos 100 mm

Art. 70203010

Laser-types:	All lasers with λ= 1064 nm
Focal width:	100 mm
Marking Field:	60 x 60 mm
Thread:	M85 x 1
further parameters depending on used laser type	

Lens Linos 160 mm

Art. 70203020

Laser-types:	All lasers with λ= 1064 nm
Focal width:	160 mm
Marking Field:	120 x 120 mm
Thread:	M85 x 1
further parameters depending on used laser type	

Lens RonarSmith 254B mm

Art. 70203031

Laser-types:	All lasers with λ= 1064 nm
Focal width:	254 mm
Marking Field:	200 x 200 mm
Thread:	M85 x 1
further parameters depending on used laser type	

Lens Linos 330 mm

Art. 70203040

Laser-types:	All lasers with λ= 1064 nm
Focal width:	330 mm
Marking Field:	230 x 230 mm
Gewinde:	M85 x 1
further parameters depending on used laser type	

All Lenses including safety-glass

Other lenses on request!

Lens Linos 420 mm

Art. 70203050

Laser-types:	All lasers with λ= 1064 nm
Focal width:	420 mm
Marking Field:	290 x 290 mm
Thread:	M85 x 1
further parameters depending on used laser type	

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ÖSTLING

Electrolytic Systems: Control Units

INFO-BOX

The ÖSTLING electrolytic marking systems are build in modular way. Kernel is always the controller, called etch unit (EU).

This EU is used manually but can be upgraded to a semi-automatic or fully automatic system.

EU 80

with cable-set
Art. 11.01.1010

Mit Zubehörkoffer
Art. 11011020

Power Supply:	230 V, AC
Output voltage:	max. 24 V, AC
Power:	100 VA
Dimensions (HxBxD):	155 x 200 x 150 mm
	EMV-checked

EU 100

with cable-set
Art. 11011030

with accessories-case
Art. 1011060

Power Supply:	115 or 230 V, AC
Output voltage:	max. 24 V, AC or DC*
Power:	100 VA
Dimensions (HxBxD):	155 x 200 x 150 mm
	EMV-checked

* for deep markings

EU 300 Classic

Art. 11011100

with accessories-case
Art. 11011102

Power Supply:	115 or 230 V, AC
Output voltage:	0 - 24 V, AC or DC
Power:	310 VA
Dimensions (HxBxD):	140 x 380 x 220 mm
	- integrated timer
	- single line lit display
	- optional: carbide output
	EMV-checked

EU 500 Classic

Art. 11011110

with accessories-case
Art. 11011112

Power Supply:	115 or 230 V, AC
Output voltage:	0 - 24 V, AC or DC
Power:	510 VA*
Dimensions (HxBxD):	140 x 380 x 220 mm
	- integrated timer
	- single line lit display
	- optional: carbide output
	EMV-checked

* faster marking of larger fields

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ÖSTLING

Electrolytic Systems: Control Units

INFO-BOX

The ÖSTLING electrolytic marking systems are build in modular way. Kernel is always the controller, called etch unit (EU).

This EU is used manually but can be upgraded to a semi-automatic or fully automatic system.

EU 300 Expert

Art. 11011200

EU 500 Expert

Art. 11011210

Power Supply:	115 or 230 V, AC
Output voltage:	0 - 24 V, AC or DC
Power:	310 VA
Dimensions (HxBxD):	140 x 380 x 220 mm

- Communication via SPS or PC
- integrated timer, pulse-marking possible
- four line lit display
- optional: carbide output

EMV-checked

Power Supply:	115 or 230 V, AC
Output voltage:	0 - 24 V, AC or DC
Power:	510 VA
Dimensions (HxBxD):	140 x 380 x 220 mm

- Communication via SPS or PC
- integrated timer, pulse-marking possible
- four line lit display
- optional: carbide output

EMV-checked

ELECTROLYTIC ETCHING
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ÖSTLING

Electrolytic Systems: Semi-Automatic

Modulmat

With EU Classic 300
Art. 11044010

With EU Classic 500
Art. 11044020

EMP

With EU Classic 300
Art. 11022030

With EU Classic 500
Art. 11022040

EMP/KST

With EU Classic 300
Art. 11022060

With EU Classic 500
Art. 11022070

Modulmat

EMP

- Etch Unit EU Classic (300 / 500) or EU Expert (300 / 500)
- Mechanics (electrolyte-storage-vessel, stand, product-admission)
- Pneumatics
- Electrolyte pump

The MODULMAT is the compact version of the EMP. Controller and mechanics are integrated in one casing.

- Etch Unit EU Classic (300 / 500) or EU Expert (300 / 500)
- Mechanics (electrolyte-storage-vessel, stand, product-admission)
- Pneumatics
- Electrolyte pump

- Etch Unit EU Classic (300 / 500) or EU Expert (300 / 500)
- Mechanics (electrolyte-storage-vessel, stand, product-admission)
- Pneumatics
- Electrolyte pump

More space for working because of compact unit under your workbench.

ELECTROLYTIC ETCHING
PIN MARKING
SCRIBE MARKING
LASER MARKING
VISION SYSTEMS
CUSTOM SYSTEMS

ÖSTLING

Electrolytic Systems: Semi-Automatic

Flowetch

With EU Classic 300
Art. 11033020

With EU Classic 500
Art. 11033030

Flowetch Compact

With EU Classic 300
Art. 11033010

With EU Classic 500
Art. 11033060

Flowetch **Flowetch Compact**

- Etch Unit EU Classic (300 / 500) or EU Expert (300 / 500)
- Mechanics (electrolyte-storage-vessel, stand, product-admission)
- Pneumatics
- Electrolyte pump

- Etch Unit EU Classic (300 / 500) or EU Expert (300 / 500)
- Mechanics (electrolyte-storage-vessel, stand, product-admission)
- Pneumatics
- Electrolyte pump

Controller and mechanics are integrated in a casing.

Mini Flowetch

Art. 11033200

- Etch Unit EU 100
- Mechanics (electrolyte-storage-vessel, stand, product-admission)
- Pneumatics
- Electrolyte pump

The Mini Flowetch is an inexpensive solution for marking with the stencil-friendly Flowetch-technology.

INFO-BOX

The Flowetch systems mark the products from below. The stencil is kept wet and cool by a constant flow of electrolytic solution.

This makes a cleaner and cooler stencil with a longer lifespan and a higher marking quality.

ELECTROLYTIC ETCHING
PIN MARKING
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CUSTOM SYSTEMS

ÖSTLING

Electrolytic Systems: Stencil Creation

Thermal Stencil Printer

Art. 11055055

Dimensions (L x W x H) 170 x 215 x 155 mm
360 dpi resolution
Integrated power supply
USB-interface (Ethernet optional)
For stenciltape 100 mm x 100 m

PT-3600 Tabletop Stencil Printer

Art. 11055230

Dimensions (L x W x H) 315 x 390 x 115mm
360 dpi resolution
Integrated power supply
Large LC-Display with 3 lines of 20 characters
USB-interface
For 18, 24 and 36 mm stencils

INFO-BOX

For frequently changing markings like DataMatrix Codes or serial numbers. Create "on demand"-stencils by yourself.

ELECTROLYTIC ETCHING
PIN MARKING
SCRIBE MARKING
LASER MARKING
VISION SYSTEMS
CUSTOM SYSTEMS

ÖSTLING

2D-Code Reading

INFO-BOX

With a 2D-Code (DataMatrix), applied by either ÖSTLING laser, dot marking or electrolytic marking, information such as serial-numbers, composition of components or even the supplier of the marked item can be stored on a surface.
That marking can now be read instantly by a 2D-Code reader/camera.

Barcode Scanner

Art. 44000040

The barcode scanner is NOT a 2D-code reader but can be used as input device in combination with needle markers and lasers.

For example you can scan some barcode data and mark this information onto your produkt as DataMatrix or serial number.

2D-Code Scanner (DataMatrix) MR3

Art. 44000051

Hand-held scanner
diffuse lightfield illumination
Darkfield LED illumination
For low contrast-codes
Reads 1D, 2D Matrix und direktly marked codes
Light, ergonomic design
Robust industrial design
Also available as Bluetooth version

2D-Code Scanner (DataMatrix) Festkamerasystem

Fixed camera with integrated processor
Integrated illumination, communication interface
Identification software
Robust industrial design
1D und 2D-Code verification (ISO)
DSP architecture
Optimated reading-algorithm

DataMatrix Info

A DataMatrix code is a two-dimensional matrix barcode consisting of black and white square modules arranged in either a square or rectangular pattern.

The encoded information can be text or raw data. Usual data size ranges from a few bytes up to 2 kilobytes. The length of the encoded data depends on the symbol dimension used. Error correction codes are added to increase symbol strength. Even if they are partially damaged, they can still be read.

A DataMatrix symbol can store up to 2,335 alphanumeric characters.