ÖSTLING - Your supplier for all marking needs!

ÖSTLING Product Overview 2007

Release 1.2 (04.Jul 2007)

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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, **www.ostling.com**. Naturally we are glad to help you by phone also: **0049 (0) 212 2696-0**

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.
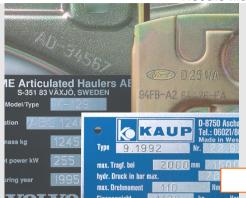
Examples are
- Serial-numbers
- Bar codes
- 2D-codes (Data Matrix™)
- Company logos
- Scales, dates and all other alpha-numeric data

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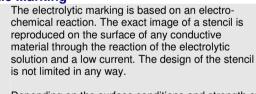
Typical applications are the marking of tools, ball bearings, metal-parts in the automotive and aircraft industries, plastics and other components for household goods, high-precision micro-coding on medical instruments and decorative markings on all kinds of promotional gifts as well as brand products.

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/Data Matrix™

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 (Data Matrix™), 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 readout of data on a Windows based surface
- Flexible and user-friendly wireless Bluetooth version available

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Needle Markers – For Integration

PinMark 3/5 E

Art. 40.35.1000

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. 40.46.1000

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. 40.51.1000

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. 40.84.1000

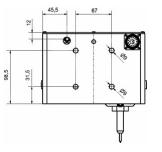| D x B x H:	318 x 255 x 170 mm
Weight:	7,4 Kg
Marking Field:	80 x 140 mm
Resolution:	0,1 mm
Speed:	depending on marking parameters
Control Unit:	UMC 112, UMC eco, UMC box
Needle System:	WE1, WE2, WE2 4mm, WE2 long, WE4, WP2
Power Supply:	230V 50Hz, opt. 115V 60Hz
Compressed Air:	max. 6 bar, 8 mm

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Stencil Creation

2D-Code Readers

INFO-BOX

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

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

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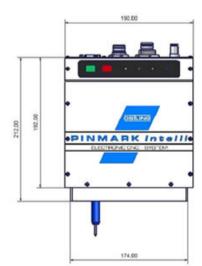IC ETCHINGIC ETCHING ELECTROLYTIC ETCHING ELECTROLYTIC ETCHING ELECTROLYTIC ETCHING ELECTROLYTIC ETCHING **ELECTROLYTIC ETCHING** ELE
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Needle Markers – For Integration: PinMark Intelli

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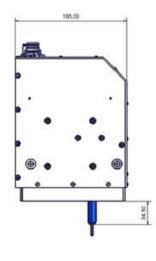
2D-Code Readers

INFO-BOX

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

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

PinMark Intelli

Art. 46.51.5000

The perfect needle marking system for heavy duty environments such as machining centres.

- **all-in-one marking unit**
- **memory for stand-alone operation on board**
- **protection class IP65**
- **compact and easy to integrate device**
- **completely selfcontained**

D x B x H:	165 x 174 x 217 mm (without needle)
Weight:	5 Kg
Marking Field:	100 x 50 mm
Resolution:	0,1 mm
Speed:	depending on marking parameters
Control Unit:	integrated
Interfaces:	RS232 (optional: RS485, Profibus DP, Bluetooth)
Needle System:	WE1, WE2, WE2 4mm, WE2 long, WP2
Power Supply:	230V 50Hz, opt. 115V 60Hz
Compressed Air:	max. 6 bar, 6 mm

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Needle Markers – Tabletop Units

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2D-Code Readers

PinMark 3/5 T

Art. 40.35.1000 (head)
Art. 44.35.1000 (table)

PinMark 5/10 T

Art. 40.51.2000

PinMark 8/14 T

Art. 40.84.2000

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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PinMark 3/5 H

Art. 40.35.3000

PinMark 5/10 H

Art. 40.51.3000

PinMark 8/14 H

Art. 40.84.3000

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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Hand-/Table-Combination

PinMark 3/5 K

Art. 40.35.3000 (hand)
Art. 44.35.1000 (table)

PinMark 5/10 K

Art. 40.51.4000

PinMark 8/14 K

Art. 40.84.4000

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

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.

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Needle Markers: Value for money

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. 40.11.1000

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. 40.35.1100

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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Scribe Systems: For Integration

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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.

Model		Specs
PinMark 4/6 SP/RT E Art. 47.46.1112		**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. 47.84.1112		**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. 47.52.1112		**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. 47.53.1112	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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Scribe Systems: Integration / Tabletop Units

INFO-BOX

For small batches and dissimilar workpieces

NEW!

PinMark DeepScribe 4/8

Art. 41.48.1000

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

PinMark 4/6 SP/RT T

Art. 47.46.2112

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

PinMark 8/14 SP/RT T

Art. 47.84.2112

4/6 SP/RT T with rotation-axis

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ÖSTLING MARKINGSYSTEMS

Flexible Scribe 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. 47.46.5112

PinMark
8/14 SP/RT T R

Art. 47.84.5112

PinMark
15/20 SP/RT T R

Art. 47.52.5112

PinMark
SP/RT 15/30 T R

Art. 47.53.5112

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 (including)
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 (including)
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 (including)
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 (including)
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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Östling MARKINGSYSTEMS

Controllers for Needle Marker & Scribe Systems

Introduction

Sample Markings

Needle Marker
Built-In Units
Tabletop Units
Hand-Held Units
Combination Units
Value for money Needle Markers

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 Data Matrix Codes.

Easy to use and reliable …

UMC 112

Art. 80.10.2000

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 od. ext keyboard

UMC eco

Art. 80.20.1000

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. 80.23.1000

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:	integr. keypad od. ext 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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Needle Marker/Scribe 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 more …

INFO-BOX

Pinware:

Easy to use with large choice of adjustable functions

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ÖSTLING
MARKINGSYSTEMS

Needlesystems 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. 45.10.0000

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. 45.22.0000

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 + MagicPin H

Marking Needle System WE 2, 4 mm

Art. 45.24.0000

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 + MagicPin H

Marking Needle System WE 2 long

Art. 45.20.0010

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 + MagicPin H

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ÖSTLING
MARKINGSYSTEMS

Needlesystems 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. 45.30.0000		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, MagicPin H
Marking Needle System WE 3 long Art. 45.30.0010		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, MagicPin H
Deep-Marking Needle System WE 4 Art. 45.50.0000		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. 45.50.0100		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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Needlesystems 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. 45.40.0000

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. 45.70.0010

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 + MagicPin 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 + MagicPin H

Marking Needle System WP3

Art. 45.70.0000

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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Needle Marking Equipment / ID Plate Station

INFO-BOX

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

ID Plate Marking
TM 100

Art. 47.00.0000

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

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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 1 eco O.E.M.

Art. 70.02.3100

LASER	
Wavelength (λ):	1064 nm
Power:	5 Watt +- 5%
Pulse frequency:	25 kHz
Cooling:	Air
Lenses:	63 mm, 160 mm (standard)
Marking field:	35 x 35 mm, 100 x 100 mm
Power Supply:	90 – 240 V/ 50/60 Hz

LasOnAll 2 O.E.M.

Art. 70.02.3200

LASER	
Wavelength (λ):	1064 nm
Power:	10 Watt +- 5%
Pulse frequency:	10 – 200 kHz (free adjust.)
Cooling:	Air
Lenses:	63 mm, 160 mm (standard)
Marking field:	35 x 35 mm, 110 x 110 mm
Power Supply:	90 – 240 V/ 50/60 Hz

LasOnAll 3 O.E.M.

Art. 70.02.3300

LASER	
Wavelength (λ):	1064 nm
Power:	20 Watt +- 5%
Pulse frequency:	18 – 300 kHz (free adjust.)
Cooling:	Air
Lenses:	100 mm, 254 mm
Marking field:	50 x 50 mm, 180 x 180 mm
Power Supply:	90 – 240 V/ 50/60 Hz

LasOnAll 3 Green O.E.M.

Art. 70.02.3400

LASER	
Wavelength (λ):	532 nm
Power:	7 Watt +- 5%
Pulse frequency:	20 - 100 kHz
Cooling:	Air
Power Supply:	90 – 240 V/ 50/60 Hz

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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 3 UV O.E.M.

Art. 70.02.3500

LASER	
Wavelength (λ):	355 nm
Power:	4 Watt +- 5%
Pulse frequency:	20 - 100 kHz
Cooling:	Air
Lenses:	100 mm, 160 mm, 254 mm
Marking field:	50 x 50 to 170 x 170 mm
Power Supply:	90 – 240 V/ 50/60 Hz

LasOnAll HPL 1 O.E.M.

Art. 70.02.3600

LASER	
Wavelength (λ):	1064 nm
Power:	60 Watt +- 5%
Pulse frequency:	5 – 100 kHz
Cooling:	Water
Lenses:	63, 100, 160, 254, 330 mm
Marking field:	depending on lens
Power Supply:	115 - 230 V/ 50/60 Hz

LasOnAll HPL 2 O.E.M.

Art. 70.02.3700

LASER	
Wavelength (λ):	1064 nm
Power:	120 Watt +- 5%
Pulse frequency:	5 – 100 kHz
Cooling:	Water
Lenses:	63, 100, 160, 254, 330 mm
Marking field:	depending on lens
Power Supply:	115 - 230 V/ 50/60 Hz

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Laser Cabinets

INFO-BOX

For the highest possible safety you need an adequate casing around the laser system.

All our cabinets are safety class 1.

**LasOnAll
Slide-Table**

Art. 70.30.9996

- 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. 70.30.9997

- 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. 70.30.9998

- 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

Introduction

Sample Markings

Needle Marker
Built-In Units
Tabletop Units
Hand-Held Units
Combination Units
Value for money Needle Markers

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

LasOnAll
RST 800
(Rotation table)

Art. 70.30.9999

LasOnAll Rondo

Art. 70.02.4000

UMC box Laser

2 axes
Art. 80.23.1100

- 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

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 1 eco
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

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
MARKINGSYSTEMS

Laser Marking (Software & Lenses)

INFO-BOX

An easy to use software and the right lenses for your applications …

Laser Software LasOnAll Creator Pro	

The software package LasOnAll Creator Pro 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 f-Theta 63 mm (mini)

Art.

Laser-types:	All lasers with λ= 1064 nm
Focal width:	63 mm
Marking Field:	35 x 35 mm
Thread:	M39 x 1
further parameters depending on used laser type	

Lens f-Theta 100 mm

Art. 70.20.2008

Laser-types:	All lasers with λ= 1064 nm
Focal width:	100 mm
Marking Field:	50 x 50 mm
Thread:	M85 x 1
further parameters depending on used laser type	

Lens f-Theta 160 mm

Art. 70.20.2009

Laser-types:	All lasers with λ= 1064 nm
Focal width:	160 mm
Marking Field:	110 x 110 mm
Thread:	M85 x 1
further parameters depending on used laser type	

Lens f-Theta 160 mm (mini)

Art.

All Lenses including safety-glass

Other lenses on request!

Laser-types:	All lasers with λ= 1064 nm
Focal width:	160 mm
Marking Field:	100 x 100 mm
Gewinde:	M39 x 1
further parameters depending on used laser type	

Lens f-Theta 254 mm

Art. 70.20.2010

Laser-types:	All lasers with λ= 1064 nm
Focal width:	254 mm
Marking Field:	180 x 180 mm
Thread:	M85 x 1
further parameters depending on used laser type	

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ÖSTLING
MARKINGSYSTEMS

Electrolytic Systems: Control Units

INFO-BOX

The ÖSTLING electrolytic marking systems are built modular. 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. 11.01.1020

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. 11.01.1030

with accessories-case
Art. 1.01.1060

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-ckecked

* for deep markings

EU 300 Classic

Art. 11.01.1100

with accessories-case
Art. 11.01.1102

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. 11.01.1110

with accessories-case
Art. 11.01.1112

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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Electrolytic Systems: Control Units

EU 300 Expert

Art. 11.01.1200

EU 500 Expert

Art. 11.01.1210

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

INFO-BOX

The ÖSTLING electrolytic marking systems are built modular. 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.

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Electrolytic Systems: Semi-Automatic

Introduction

Sample Markings

Needle Marker
Built-In Units
Tabletop Units
Hand-Held Units
Combination Units
Value for money Needle Markers

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

Higher precision through (semi-) automatic systems

The systems on this page mark your products from above.

Modulmat

With EU Classic 300
Art. 11.04.4010

With EU Classic 500
Art. 11.04.4020

EMP

With EU Classic 300
Art. 11.02.2030

With EU Classic 500
Art. 11.02.2040

EMP/KST

With EU Classic 300
Art. 11.02.2060

With EU Classic 500
Art. 11.02.2070

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 a 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.

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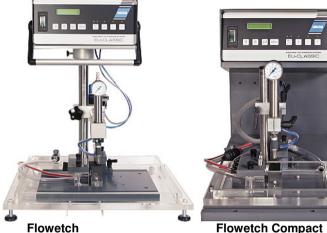
Electrolytic Systems: Semi-Automatic

Flowetch

With EU Classic 300
Art. 11.03.3020

With EU Classic 500
Art. 11.03.3030

Flowetch Compact

With EU Classic 300
Art. 11.03.3010

With EU Classic 500
Art. 11.03.3060

Mini Flowetch

Art. 11.03.3200

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.

- 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.

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ÖSTLING
MARKINGSYSTEMS

Stencil Creation

INFO-BOX

For frequently changing markings like Data-Matrix Codes or serial numbers, you can create "on demand"-stencils by yourself.

PT 2480 **Hand-held** Art. 11.05.5250		ABC-keyboard Separate number pad Robust casing with protectors Supports 9 usual barcodes Saving of PC-generated templates Printing up to 7 lines Large LC-Display
PT 3600 **Tabletop** Art. 11.05.5230		Printing up to 16 lines 360 dpi resolution Integrated power supply Large LC-Display with 3 lines of 20 characters USB-interface (V1.1) For stencils 18 and 24 mm
PT 9600 **Tabletop** **Standalone** Art. 11.05.5240		Printing up to 16 lines 360 dpi resolution Integrated power supply Large LC-Display with 3 lines of 20 characters USB-interface (V1.1), serial Layout-transfer (PC → PT) Logo-transfer (PC → PT) For stencils 18 and 24 mm
Stencil-Creator **V 3.1** **with Needleprinter** Art. 11.05.5040		free characters adjustment (e.g. arched) High print-quality, e.g. for round markings Character-types: Draft, Roman, Sans Serif Character-styles: standard, bold, cursive, underlined Character-width: 2-8 characters per cm Complete incl. software & printer

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2D-Code Reading

INFO-BOX

With a 2D-Code (Data Matrix™), 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. 44.00.0040

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 Data-Matrix or serial number.

2D-Code Scanner (Data Matrix) MR3

Art. 44.00.0051

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
Available as Bluetooth version also

2D-Code Scanner (Data Matrix) 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

Data-Matrix Info

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

The information to be encoded can be text or raw data. Usual data size is 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 Data Matrix symbol can store up to 2,335 alphanumeric characters.