

# KOENIG & BAUER

## Laser iCON3

PACKAGING		
Entry	Advanced	High-End

Extremely reliable

Wide range of applications

Minimal maintenance



we're on it.

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## Laser marking

The quality of industrial markings with lasers depends on the **reaction** of the marked **material** (color, coating, condition) and which laser is used (performance, wavelength).

## Material reaction for CO2-Laser

Material group	Material	Wavelength	Reaction	
<b>Foil</b>	Aluminum foil	10,6 µm	+	
	Polyethylene terephthalate (PET)	10,6 µm	0	
	Oriented polypropylene (OPP)	10,6 µm	0	
<b>Glass</b>	Glass	10,6 µm	+	
	Glass fiber	10,6 µm	+	
<b>Wood</b>	Wood	10,6 µm	+	
	Thermo-label	10,6 µm	+	
	Board	10,6 µm	+	
<b>Ceramic</b>	Ceramic	10,6 µm	0	
<b>Plastic</b>	Polypropylene (PP)	10,6 µm	+	
	Low density polyethylene (LDPE)	10,6 µm	+	
	Polystyrene (PS, GPPS, HIPS)	10,6 µm	+	
	Acrylnitril-Butadien-Styrol (ABS)	10,6 µm	0	
	Polyacetal (POM)	10,6 µm	+	
	Polyamide (PA)	10,6 µm	0	
	Polycarbonate (PC)	10,6 µm	0	
	Polyethylene (PET)	10,6 µm	+	
	Polybutylene terephthalate (PBT)	10,6 µm	+	
	Polyvinyl chloride (PVC)	10,6 µm	+	
	Silicon varnished	10,6 µm	0	
	Epoxy resin	10,6 µm	+	
	Phenolic resin	10,6 µm	0	
	Polyurethane	10,6 µm	+	
	<b>Metal</b>	Coated metals	10,6 µm	+
		Metals	10,6 µm	-
	<b>Organic material</b>	Fruits and vegetables	10,6 µm	+
<b>Paper</b>	Paper	10,6 µm	+	
<b>Textile</b>	Textile	10,6 µm	0	
<b>Label</b>	Label	10,6 µm	+	
<b>Cable</b>	Cable	10,6 µm	0	
<b>Tires</b>	Tires	10,6 µm	+	

+ = good  
 0 = potential  
 - = bad

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## Application examples



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## Technical data Laser

### iCON3

#### SET

Laser + Touch Screen



<b>Name</b>	SET_iCON3-10W_TOUCH-SCREEN	SET_iCON3-30W_TOUCH-SCREEN		
<b>Material number</b>	1040.9347	1040.9349		
<b>Performance level</b>	PL-C	PL-C		
<b>Beam path</b>	90°	90°		
<b>Power</b>	10 W	30 W		
<b>Wavelength</b>	10,6 µm	10,6 µm		
<b>Dimensions (A x B x C)</b>	603 x 118,5 x 190 mm	650 x 169,2 x 235 mm		
<b>Weight</b>	10 kg (nur Gerät)	22 kg (nur Gerät)		
<b>Protective class</b>	IP 20			
<b>Connection values</b>	115 V / 230 V ; 50 Hz / 60 Hz ; 300 VA (10W), 650 VA (30W)			
<b>Assembly</b>	Laser, control electronics, computer and scanner are integrated in the laser.			
<b>Environment</b>	Temperature + 10° to + 40° C, relative humidity max. 95 %			
<b>Cooling system</b>	Integrated air cooling			
<b>Control</b>	PC-Software, Touchscreen Terminal			
<b>Interfaces</b>	Ethernet TCP/IP, I/O			
<b>Operating system</b>	ScanLinux V5.6.5			
<b>Speed (1-line)</b>	75 m/min (coding speed can differ depending on size, content and material)			
<b>Lens</b>	<b>Mat. no.</b>	<b>Working space</b>	<b>Working distance</b>	<b>Beam diameter</b>
	Contained in unit	35x35 mm	95 mm	324 µm

#### Exclusive Touch Screen (laser without Touch Display)

#### LASER



<b>Power</b>	10W	30W
<b>Name</b>	LASER_iCON3-S10-B90-EC2-W	LASER_iCON3-S30-B90-EC2-W
<b>Material number</b>	1040.9343	1040.9345



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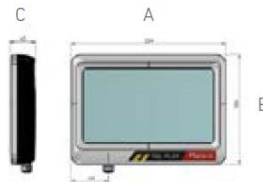
## Technical data Touch Screen

### Touch Screen

#### Touch Screen

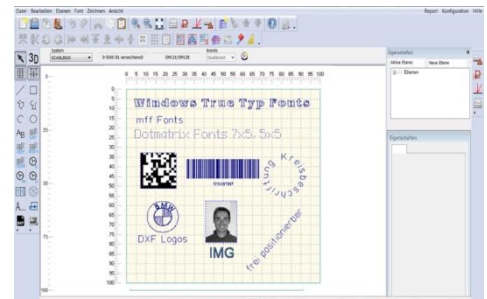


<b>Name</b>	TOUCH SCREEN ICON 3
<b>Material number</b>	1040.9351
<b>Dimensions (A x B x C)</b>	264 x 186 x 45 mm
<b>Typ</b>	Capacitive Touch Screen Display
<b>Size</b>	10,1" / 1064x600
<b>CPU</b>	MX6ULL 800MHz 128MB DDR
<b>Memory</b>	2GB
<b>Voltage</b>	12V
<b>Connection</b>	Ethernet RJ45 + LEMO Connector
<b>Software</b>	MarcaTouch OS 2.0 oder neuer
<b>Cable length</b>	1,5m
<b>Cover</b>	Aluminum
<b>Protection Class</b>	IP54
<b>Environment</b>	Temperature + 10° to + 40° C, relative humidity max. 95 %
<b>Interface</b>	WYSIWYG (What You See Is What You Get)



## Software

### Software

















<b>Typ</b>	Touch Software	PC Software
<b>Name</b>	Beim Touch Screen inklusive	MARCA FULL GRAPHIC SOFTWARE
<b>Number</b>	Beim Touch Screen inklusive	1008.3223
<b>Barcodegenerator</b>	1000.3850	1000.3850

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## Accessories

(Details, dimensions, drawings on request)

Accessorie	Number	Name	Picture
<b>FLOOR STAND 40X40 ICON2 10W</b>	1040.6653	FLOOR STAND 40X40 ICON2 10W	
<b>FLOOR STAND 80X80</b>	1040.4115	FLOOR STAND 80X80	
<b>FLOOR STAND 80X80; 2 SPINDLES</b>	1040.4095	FLOOR STAND 80X80; 2 SPINDLES	
<b>MOUNTING BRACKET ICON2 10W</b>	1040.4073	MOUNTING BRACKET ICON2 10W	
<b>MOUNTING BRACKET K, DN, ICON</b>	1040.4078	MOUNTING BRACKET K, DN, ICON	
<b>MOUNTING BRACKET TOUCH SCREEN</b>	1040.6640	MOUNTING BRACKET TOUCH SCREEN	
<b>HOUSING ICON2 10W</b>	1040.4209	HOUSING ICON2 10W	
<b>HOUSING ICON2 30W</b>	1040.4210	HOUSING ICON2 30W	
<b>HOUSING ICON2 FOIL LASER 10W</b>	1040.4207	HOUSING ICON2 FOIL LASER 10W	
<b>HOUSING ICON2 FOIL LASER 30W</b>	1040.4208	HOUSING ICON2 FOIL LASER 30W	
<b>HOUSING ICON2 10/30W MAKROLON</b> (adaptation to line may be necessary)	1040.4206	HOUSING ICON2 10/30W MAKROLON	
<b>CONNECT D50MM FÜR ICON2 &amp; K</b>	1040.4211	CONNECT D50MM FÜR ICON2 & K	
<b>FUME EXTRACTOR 400I DIGITAL &lt;500 markings/minute</b> (For details, see data sheet extraction)	1040.6862	FUME EXTRACTOR 400I DIGITAL	
<b>FUME EXTRACTOR 800I DIGITAL &gt;500 markings/minute</b> (For details, see data sheet extraction)	1040.4112	FUME EXTRACTION 800I	

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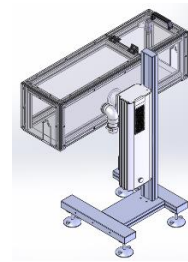
<b>PHOTOCELL REFLEX SICK 4-130</b>	1007.1993	PHOTOCELL REFLEX SICK 4-130	
<b>SENSOR WENGLOR</b>	1037.8697	SENSOR WENGLOR	
<b>ENCODER 5.000</b>	1007.2167	ENCODER 5.000	
<b>ENCODER 10.000</b>	1007.2178	ENCODER 10.000	
<b>CABLE ENCODER 5M - K</b>	1011.3064	CABLE ENCODER 5M - K	
<b>CABLE ENCODER 10M - K</b>	1037.3808	CABLE ENCODER 10M - K	
<b>FRICTION WHEEL 132</b>	1010.7594	FRICTION WHEEL 132	
<b>FRICTION WHEEL 200</b>	1005.9781	FRICTION WHEEL 200	
<b>FRICTION WHEEL 288</b>	1010.7595	FRICTION WHEEL 288	
<b>FRICTION WHEEL 330</b>	1010.7593	FRICTION WHEEL 330	
<b>FRICTION WHEEL 500</b>	1007.2191	FRICTION WHEEL 500	
<b>FRICTION WHEEL 200</b>	1007.2185	FRICTION WHEEL 200	
<b>ENCODER HOLDER</b>	1007.2194	ENCODER HOLDER	
<b>HOLDER SHAFT / T</b>	1010.4594	HOLDER SHAFT / T	
<b>ENCODER AMPLIFIER</b>	1038.5973	ENCODER AMPLIFIER	
<b>ENCODER ARM</b>	1040.3285	ENCODER ARM	
<b>COUPLING</b>	1000.9345	COUPLING	
<b>ALARM KIT ICON</b>	1040.6658	ALARM KIT ICON	



# KOENIG & BAUER

**Integration on conveyor belt**  
Individual adaption

On request



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## FMCG Station

On request

Including laser, housing, conveyor  
belt, fume extractor



## Quality

ISO-certification by DIN EN ISO 9001-2015

Made in Europe.

Our quality requirements include the process of continuous improvement. Design and technical changes are reserved without previous announcement.

## Contact

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