Systemtechnik Hölzer GmbH

PCB Marking System

Series 4646

COMBINED INKJET / LASER AND / OR LABEL TECHNOLOGY
ONE MODULAR CELL – STAND-ALONE OR IN-LINE OPERATION

LOW INVEST AUTOMATION

The Series 4646 marking-system labels printed circuit boards of different surface colorizations with inkjet, laser and / or label-unit with barcodes, 2D matrix codes or other imprints. Both technologies can be integrated in this system for sequential application or can be employed as individual units. The marking process is performed from TOPSIDE, while the x/y- coordinates table pilots the PCB.

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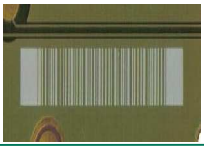
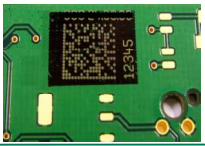
- Best lifetime price / performance ratio while covering all contemporary and future marking requirements
- Inkjet for spraying of coloured base segment, CO_2 laser for creation of barcode or 2D-code data matrix code or label marking unit
- Teach-in CCD-camera with positioning correction and code-reader for immediate result verification





Mechanical Engineering • Tool Manufacture • Air Bearing Technology

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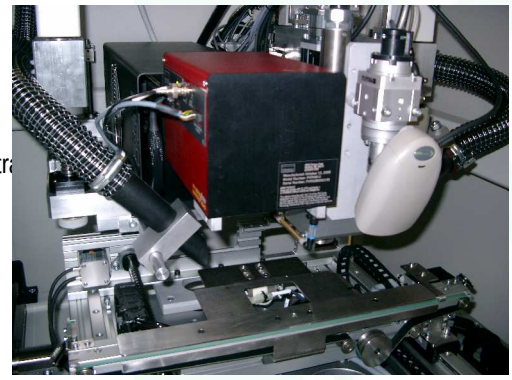
Technical specifications

Machine	
W x D x H	1000 x 1.350 x 1.750 mm
Working height	930 – 1.050 mm
Weight	ca. 700 kg
Current	230 V / 50/60 Hz / 16 A
Compressed air	0,6 mPa (6bar), oilfree
Color	RAL 9002 / customer specific

Work space		
Standard panelsize		390 x 390 mm
Board thickness		0,5 – 3,2 mm
Mounting height	standard top side:	75 mm
	bottom side:	25 mm

PCB fixation
With pins in PCB tool holes, edge clamping and supporting pins in unpopulated areas, if required in combination with vacuum pins. Flexible workflow direction.



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Accuracy	
Positioning	± 0,02 mm
Repeatability	± 0,02 mm

Dust extraction
External fume/dust vacuum unit.

Noise level	
Operating noise	55 db (A)

System
IPC-control DIN-language
Path control
Windows® user interface (WYSYWIG)
Ethernet network interface, traceability
Conveyor interface SMEMA
Remote service
DIN 66025 program-converter

INKJET
Creation of Bar -, 2-D Matrix Codes, Logos und Graphics

Markable lines	up to 4
Characters per sec. / line	up to 2133
Fonts	5x5, 7x5, 9x6, 12x8, 16x11, 19x14, 24x17
Character height	2 – 10 mm
Object proximity	9 mm
Statusindicator	visual
Jet unit rinsing	automated

External text entry
Swivel Jet unit 0 – 90°
Maintenance monitoring
Integrated text memory

LASER	
CO_2 source	10 W / 20 W
Operating area	110 x 110 mm
Spotsize 1 / e^2	290 µm
Focal distance	190 ± 3 mm
Marking speed	225 characters /sec.

LABEL UNIT	
Printing method:	thermal
Print resolution:	300 – 600 dpi
Print speed:	max. 250 mm/sec
Print width:	max. 105,6 mm
For label rolls up to:	max. 210 / 300 mm
Label format:	min. 4 x 4 mm

Options

YAG Laser	8 / 10 W

Front loading shuttle in/out
Loader/Unloader/Conveyors
Z-axis stroke 60 mm

CE, ESD, EMC, accident prevention
The machine meets viable rating of local safety regulations.
Operating stand-by capability > 98 %

Machine qualifying references

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LCIA – LOW COST INTELLIGENT AUTOMATION

(Pic: Laser /Inkjet Marker with loader / unloader)

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