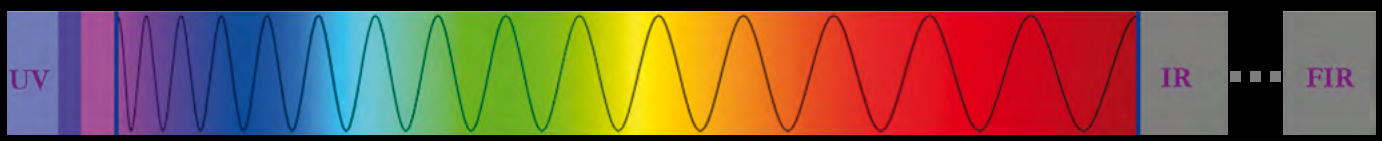
where ideas become technology

NEOMARK twin

Laser Marking
GREEN, YAG & Co_2

Main characteristics:

- Fiducial check for accurate marking position
- 100% data and quality level check on 2D code
- Bad mark recognition
- PCB supplier logo recognition for on-fly optimal parameter set-up
- OCR for PCB version recognition
- Optical check for component presence/absence
- PCB polarization check
- Automatic parameter adjustment in production
- Automatic width adjustment
- Full library (2D code, Bar code, QR code and others)
- Tailored DB communication for traceability
- Remote control
- Datalog available for fast diagnostic



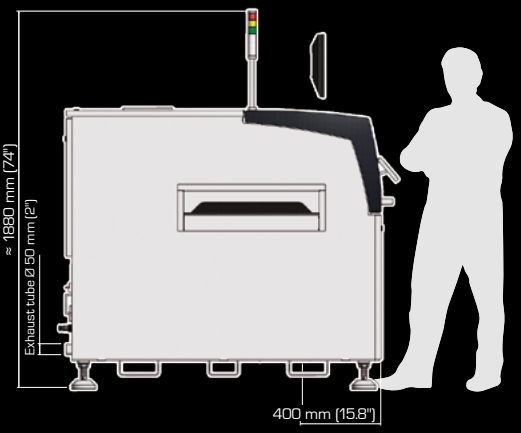
Wavelength

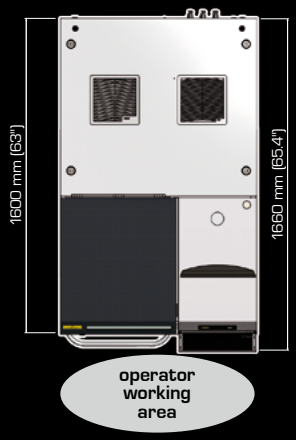
NEOMARK 532twin

NEOMARK 1064twin

NEOMARK twin

Osai
automation systems
www.osai-as.com





MACHINE CONFIGURATION	
Transport (Height)	SMEMA - 900 mm to 1000 mm (35" to 39")
Max. transport (Width)	480 mm (19") with automatic width adjustment
Interface	SMEMA
Transfer direction	From left to right (optional from right to left or pass-back)
Operating side – Fixed rail	Front of the machine

PANEL DIMENSIONS	
Panel (Length)	70 mm to 480 mm (2.8" to 19")
Panel (Width)	50 mm to 480 mm (2" to 19")
Panel (Weight)	Up to 3 kg (6,6 lbs)
Transport PCB	3 mm carrying edge flat belt
Panel thickness	0.5 mm to 3.5 mm (19,7 mils to 138 mils)
Panel clearance	Up 66 mm – Down 40 mm
Marking area (Length - Width)	Up to 480 mm (Up to 19")

INSTALLATION REQUIREMENTS		
Power supply	CE 230V	ETL 208/240/277/440/480/575V
Power supply system	CE 1P+N+PE - 50/60 Hz, +/-10%	ETL 2Ph+GND 3 Wire - 50/60 Hz, +/-10%
Power consumption	Typical 1 kW (+ 0,2 up to 0,8 kW depending on Laser)	
Air pressure	6 bar (87 p.s.i.)	
Average consumption	<10 Nl/min (2,64 gpm)	

MACHINE DESCRIPTION	
Length x Width x Height	1000 mm x 1660 mm x 1880 mm (39.5" x 65.4" x 74")
Codes	Data Matrix ECC200, Code 39, Code 128, 2/5 Interleaved, QR code
Repeatability	+/- 50 µm (1,96 mils)
Accuracy	+/- 100 µm (3,93 mils)
Track speed	24 m/min
Axis speed (X - Y)	48 m/min
Weight	Approx. 800 kg (1763 lbs)
Color	RAL 9018, RAL 7016
Noise level	< 70 dB

LASER DESCRIPTION	
Laser power (GREEN)	10 W (air cooled)
Spot Laser (GREEN)	50 µm (1,96 mils)
Laser power (YAG)	20 W (air cooled)
Spot Laser (YAG)	70 µm (2,76 mils)
Laser power (CO_2)	10W - 30 W (air cooled)
Spot Laser (CO_2)	100 µm (3,9 mils)

UPGRADES AND OPTIONS

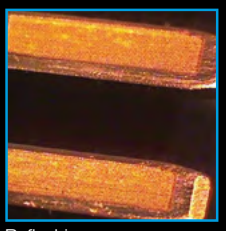
- 2D code and fiducial recognition
- Bottom side reader
- In focus belt conveyor
- Bended PCB support

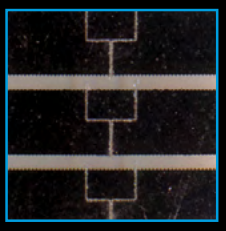
UPGRADES AND OPTIONS

- Flip unit
- Exhauster
- DB connection

Plastic marking

Trimming

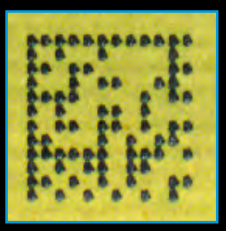

Deflashing


Scribing

Barcode

YAG on copper

CO_2 color change on solder resist


YAG on gold

The specifications given in this document represent the state of engineering at the time of publishing. Osai reserve the right to make modifications to the specifications and materials.

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