

where ideas become technology



Scalable & modular ODD-shape assembly

Neoplace 304 modula is the optimum solution wherever is required the assembling of a limited number of different components and a high production performance.

The compact mechanical structure makes possible to scale the requested configuration to achieve the needed throughput. Each neoplace 304 modula is a system fully integrated in order to create a modular, flexible and scalable assembly line.

The fast and easy set-up, together with the wide range of OSAI feeders and grippers, guarantees the necessary flexibility asked for production that need sudden configuration changes.



NEOPLACE 304 modula



 **Osai**
automation systems
www.osai-as.com



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

MACHINE CONFIGURATION	
Transport (Height)	SMEMA compliant
Max. transport (Width)	300 mm (12") 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 - Width)	70 mm to 350 mm (2.8" to 14") - 50 mm to 300 mm (2" to 12")
Panel (Weight)	Up to 3 kg (6,6 lbs)
Transport PCB	3 mm flat belt
Panel thickness	0.5 mm to 3.5 mm (19,7 mils to 138 mils)
Panel clearance	Up 100 mm - Down 40 mm
Working area (1 Head) - (2 Head)	Up to 400 mm (Up to 15.7") - Up to 100 mm + 300 mm + 100 mm (Up to 3.9" + 12" + 3.9")

INSTALLATION REQUIREMENTS			
Power supply	CE 400V	ETL	208/240/277/440/480/575V
Power supply system	CE 3P+N+PE - 50/60 Hz, +/- 10%	ETL	3Ph+GND 3 Wire - 50/60 Hz, +/-10%
Power consumption	Typical 3 kW at work		
Air pressure	6 bar (87 p.s.i.)		
Average consumption	<100 NI/min. (26,4 gpm)		

MACHINE DESCRIPTION	
Length x Width x Height	900 mm x 2610 mm x 1900 mm (35.5" x 103" x 75")
Codes reading	Data Matrix ECC200, Code 39, Code 128, 2/5 Interleaved, QR code
Repeatability	+/- 5 µm (0,19 mils)
Accuracy	+/- 10 µm (0,39 mils)
Axis speed (X - Y - Z)	150 m/min - 150 m/min - 54 m/min
Axis max force (Z)	500 N constant 800 N Peak (1s)
Feeding capacity	Up to 4 feeder (for feeder T&R become bigger depending on the feeder dimensions)
Average insertion time	1,2/1,6 sec
Possible configuration	Stand alone, Inline, Passback
Weight (base system plus feeder)	Approx. 1500 kg (3307 lbs)
Color	RAL 9018, RAL 7016
Noise level	< 70 dB

STANDARD FEATURES
 1st assembling head, In line conveyor with automatic width adjustment, Interchangeable trolley, Double touch screen monitor, Simplified and intuitive graphical user interface, Pc, SMEMA electrical interface, ESD-safe design, CE-safety compliant

UPGRADES AND OPTIONS	UPGRADES AND OPTIONS
<ul style="list-style-type: none"> • Second head • 2D code and fiducial recognition • Passive clinch • Active clinch • Vacuum and mechanical gripper 	<ul style="list-style-type: none"> • Automatic gripper change system • Servo gripper to manage different PCB widths • Pallet conveyor • DB connection • Placement force check