

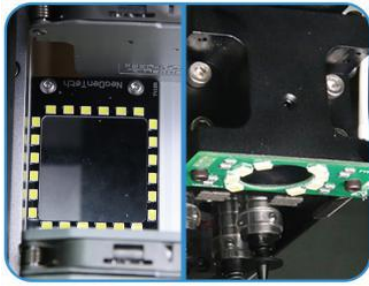
Desktop Pick and Place Machine NeoDen4

NeoDen4, the brand new and long-awaited model of NeoDen, is a desktop Pick and Place machine with vision system. As a professional PnP machine designer and developer, NeoDen has been doing research in SMT industry from 2010.

NeoDen4 is with dual cameras, auto rails, auto electronic feeders and 4 placement heads, which could help to handle **0201, BGA, QFN and 0.8m/1.2m/1.5m LED strip**. NeoDen4 is the best choice to satisfy all demands of high precision, high capacity, stable performance and low cost. This is a huge breakthrough not only for NeoDen, but also for small and medium-sized enterprises, those who want to improve placement accuracy and speed up PCB assembly with a limited budget.

Highlights

1	Number of Heads with Vision enabled	4
2	Placement Rate(under factory test condition)	WITH VISION:5000
		WITHOUT VISION:10000
3	Feeder capacity	TAPE REEL FEEDERS:45
		VIBRATING FEEDERS:5
4	IC tray capacity	5
5	Component sizes with vision	Smallest Component size:0201
		Largest Component size:TQFP240
6	Component Max Height	5MM
7	Resolution	X/Y axis:0.01MM
		Z axis:0.1MM
9	Rotation	+/-180°(360°)
10	Positioning Accuracy	+/-0.02MM
11	X-Y repeatability	+/-0.02MM
12	Applicable PCB area	With Internal conveyor: 310*1500MM
		Without internal conveyor: 350*400MM
13	Placement Area	Without waffle Tray: 310*1500MM
		With 1 waffle Tray: 140*1500MM
14	Programming	SOFTWARE AUTOMATIC
		MANUAL MECHANICAL
15	Main Control	GUI
16	Power Supply	110V/220V
17	Power	180W
18	External Dimensions	Machine :87*68*48CM
		Packing size:94*74*60CM
19	Weight	Net Weight:60KGS
		Gross weight:80KGS



• **Dual vision system**(up-looking and down-looking cameras), equip with high speed industry CCD cameras can help to identify and calibrate the four picking components at one time, highly improved accuracy of placement from 0201 to BGA

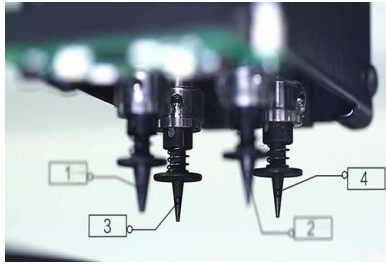


• **NEODEN independent research and development on-line dual rails:**

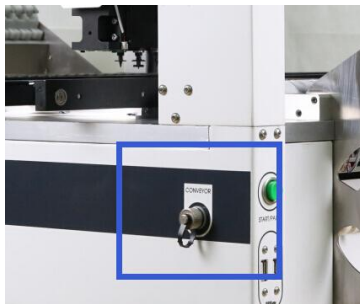
- A.Support connect to conventional conveyor directly,help reach the goal of continuous automatic feeding the boards
- B.Set the feeding position at anywhere shorten the mounting route
- C.Bases on NeoDen Mark point relocated technology, can mount overlong boards easily



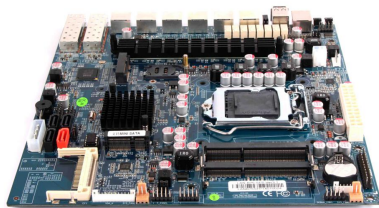
• **Electronic feeders**,adopts feeding error corrections technique to help smooth the picking and reduce the deviation



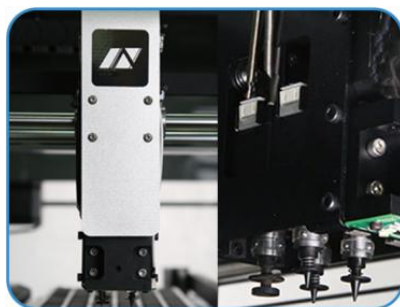
- **Four high precision nozzles**, after calibration by vision software, it can reach to pick and place four components at one time with 360 degrees rotation at -180 to 180



- **General conveyor** is supported, to help users achieve automatic production without labors at all



- **Industrial PC motherboard**, 32G solid state drives, read/write faster and more stable, with power-off protection function



- **Newly designed mounting head** that adopts suspended, fully symmetric and high degree of coupling way, to ensure it can mount components with higher space, more gentle and more accurate

- **Supports remote system upgrade**, NeoDen will provide a life-long technical service and system upgrade
- **Lightweight body and stable quality** suit for customers who want to start small-medium production, lab research and prototyping

Why Choose

1. Light weight body, occupy small area
2. User friendly interface, no need professional SMT engineer, entry-level device
3. High integrated, no need extra pump or any supporting facility
4. High accuracy and reliability, make up the defection of manual work
5. Low cost, reduce expense to own a professional automatic SMT production line
6. International express with door to door service, 3-5 working days delivery
7. Especial for laboratory research and development, samples, to avoid any patents and designs revealment

Sample Boards from Few Customers

