

PARAMETER

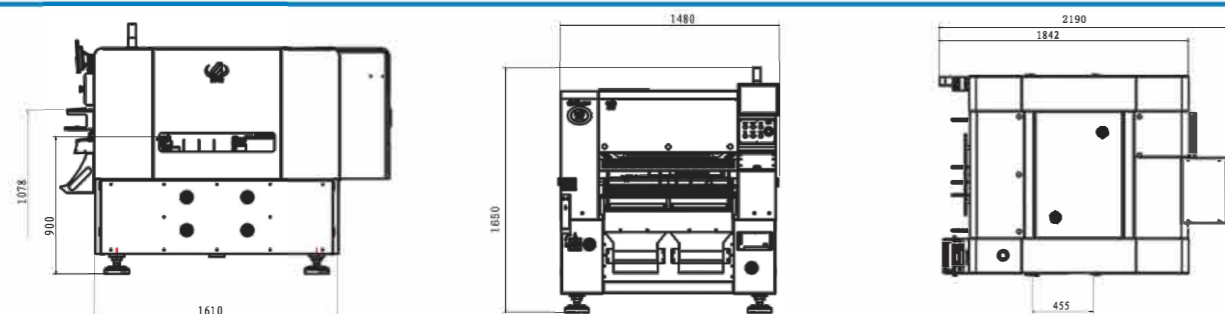
Model	YT10S
PCB size(L*W)	Max size: 500mm*450mm(Legnth can be customized) Min size: 50mm*50mm
PCB thickness	0.5-5mm
PCB clamping	Cylinder clamping, track width adjustable
Fixed rail way	Rail 1 is fixed rail
System	Windows 7
Software	R&D independetly
Off-line programming	Available
No. of head fly vision camera	1PCS
No. of head fly vision camera	2PCS
Calibration method	Vision alignment+Mark correction
Repeat precision	CHIP±0.03mm QFP±0.025mm Cpk>1.33(3σ)
Mounting component height:	Standard:≤16mm, Special setting:≤10mm
Mounting speed	48000CPH(Optimum speed)
Components range	0201~15*15mm packaging material and IC material (optional fixed identification camera for 0201~40*40mm)
Power	1Φ 220AC 50HZ 1KW
Operating environment	25°C ± 3°C 45%~70%RH
Transmission direction	Standard: Single direction
Transmission mode	Online drive
Position mode	Optical
Air consumption	0.4-0.6mpa (4-6kgf/cm ²) 100L/min
Electrical control	Independent research and development by ETON
Motion control card module 1 set	Independent research and development by ETON
X,Y,Z Axis drive way	High-end magnetic linear motor
No. of Feeder station	52PCS
No. of Heads	10PCS
Feeding way	Electric Feeder
MES System interface	Customized

★Option

fixed fly vision camera	Option
IC pack	Option
17-station feeder cart	Option (equipped with IC pack)
52-station feeder cart	Option
23-station feeder cart	Option
Cutter	Option
Mobile IC cabinet	Option (equipped with feeder cart)
Nozzle exchange station	Option

Note: The above mounting speed is the value under the optimal state, the actual speed varies with the mounting product

Appearance



CHINESE SELF SMT MACHINES INDUSTRY CHAIN BASE



Full automatic YT10S SMT line solution



☎ 0755-29502322

🌐 www.eton-mounter.com



Shenzhen Headquarter

Manufacturing Center

SHENZHEN ETON AUTOMATION EQUIPMENT CO., LTD.

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JIANGXI ETON INTELLIGENT EQUIPMENT MANUFACTURING CO., LTD.

Add: ETON Industrial park, Yanglinhu street No.273, Ruichang city, Jiujiang City, Jiangxi Province



ETON HONOR SERIES HIGH SPEED UNIVERSAL PICK AND PLACE MACHINE

YT10S



* Fixed stations

Create Value For Customers, Create Benefits For Society



SMT Innovation

YT10S

HIGH-SPEED MULTI INTEGRATED MACHINE, BREAKING THROUGH INDUSTRY CONVENTIONS, GREATLY IMPROVING MOUNTING SPEED, ACCURACY AND STABILITY



- * IC backpack
- * Supports customization

FEATURES:

(Optimum)

48000CPH

Outline Dimension

Length	1480mm
Width	2190mm
Height	1650mm
Total weight	1850kg

X, Y, Z axis all adopt self-developed high-end magnetic linear motor

Y axis adopts double drive gantry structure

The world's first use of single-phase 220V power supply, low energy consumption

Support automatic nozzle change function(option)

Support IC backpack & IC tray function(option)

Each head is independently controlled by separately driver, each nozzle can independently test CPK

Apply to 0201~15*15mm tape reel package and IC tray feeder (15*15~40*40mm components need to option fixed camera)

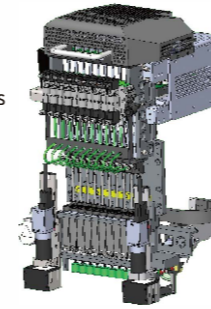
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Feature

INTERNATIONAL INVENTION PATENT: PLACEMENT HEAD

Integrated placement head

Lightweight, with an integrated head design, and 10 sets of Z axes independently controlled by modular magnetic linear motors, resulting in significant improvements in speed, accuracy, and stability.

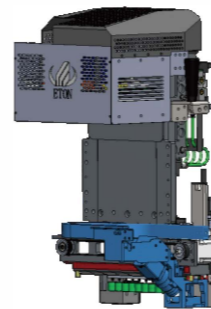


Precise Corner System

The modular corner system independently controls the angle of each component to ensure high-precision placement. There are 10 suction nozzles per head, with a center distance of 16mm.

Vision system

The integrated high-speed and precise flying recognition camera enhances recognition accuracy, Recognize during X and Y axis movement to once again improve placement efficiency



Vacuum Sensing Device

Each placement head with independent detection function, which improves the stability of the equipment and the reliability of the product.

Ultra-high-speed Capability

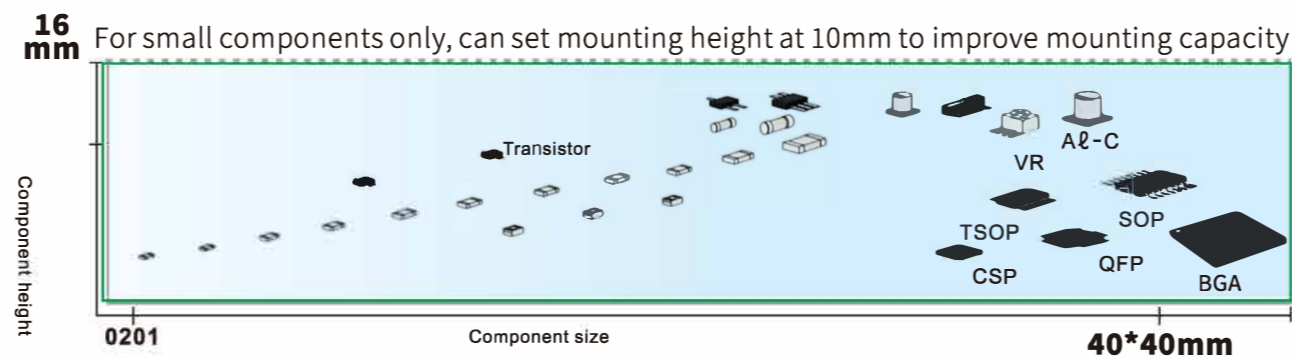
Adopting high-end magnetic linear motors and a multi-function modular head, the placement capability has increased 25% compared to traditional machines, with an optimum placement speed reaching 48,000CPH.

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Feature

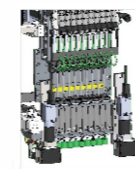
FLEXIBLE PRODUCTION

Component size

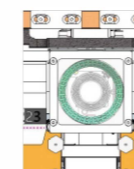


Optical Recognition Camera

Head flight recognition + fixed flight recognition(optional), components with size less than 40*40mm and height less than 16mm can be used to high-speed and high-precision identification.



Double Mark camera Recognition:High-precision Mark recognition system,adopt 3- color illumination recognition, apply to any shape Mark,wider range of applications.

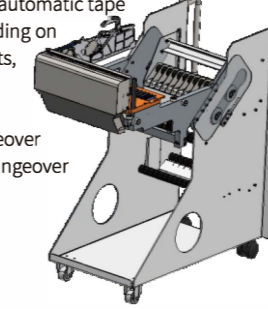


Fixed flight vision camera(optional): High-speed flight vision camera, quickly captures multiple head images at once, perform visual calibration of image position, alignment correction, adjustable light source brightness.

Optional

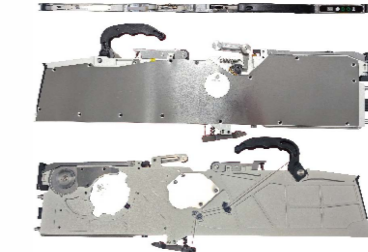
Feeder Cart (optional)

One Feeder Cart accommodates 23 PCS feeder stations, equipped with optional automatic tape cutting function. Depending on the product requirements, the feeder cart and IC cabinet can be switched with a one-touch changeover method to minimize changeover time.



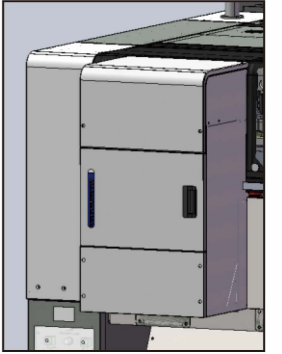
Intelligent Electric Feeder

Support YT series double head intelligent electric tape reel feeder,by optically correcting the feeding position of the component,it can achieve stable, accurate and high-speed feeding.



IC Backpack

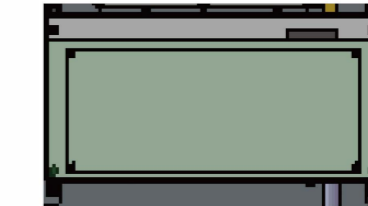
Supports 15-layer trays, with the ability to switch freely.



Nozzle exchange station



IC Tray



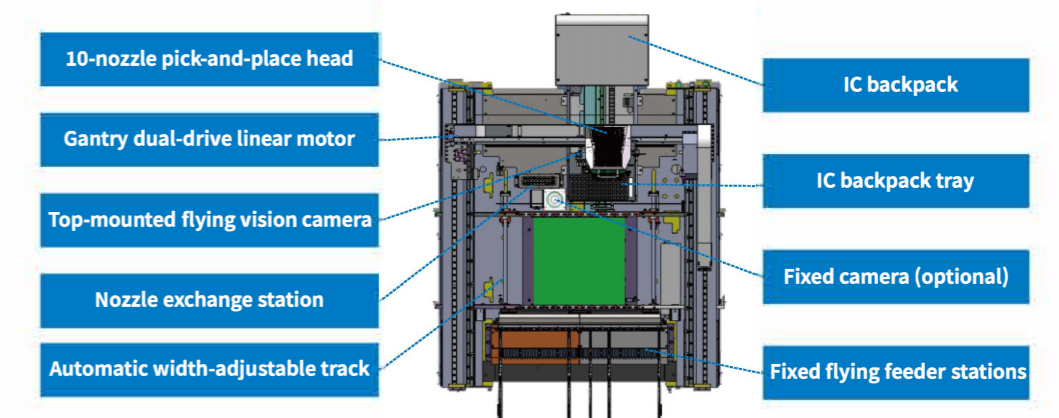
Cutter



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Feature

TRANSMISSION SYSTEM STRUCTURE



- Single Gantry, 10 spindles .
- Maximum PCB board: 500*450mm, Minimum 50*50mm.

- Optional IC backpack,flexible production
- Flexible line is achievable through modular placement heads and various production modes.

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Feature

HIGH RELIABILITY STABLE PRODUCTION

- Brand new self-developed high-precision placement head.
- Combining a high-accuracy mark recognition camera with a fixed-flight vision camera to ensure placement accuracy.
- The placement head adopt independent vacuum detection,improve placement performance.
- Off-line programming,saves time during short changeover cycles.
- The software includes AI Deep Learning and Automatic Optimization functions.
- Provides/Supports MES system interface.
- Equipped with coordinate import function.