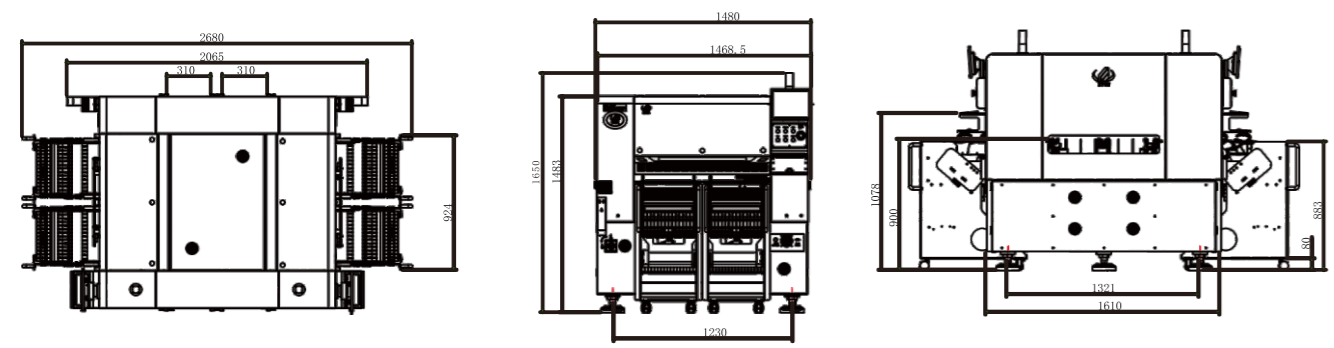


## PARAMETER

|                                       |   |
|---------------------------------------|---|
| Model                                 | <b>YT20S-II</b>   |
| PCB size(L*W)                         | Max size: 500mm*450mm(single PCB)<br>500mm*300mm (double PCB)<br>Min size: 50mm*50mm                    |
| PCB thickness                         | 0.5-5mm   |
| PCB clamping                          | Cylinder clamping, track width adjustable   |
| Fixed rail way                        | 2 Rail, 2 gantries (Rail 1, 4 are fixed rail)   |
| System                                | Windows 7   |
| Software                              | R&D independetly  |
| Off-line programming                  | Available   |
| No. of head fly vision camera         | 2PCS  |
| No. of head fly vision camera         | 4PCS  |
| Calibration method                    | Vision alignment+Mark correction  |
| Repeat precision                      | CHIP±0.03mm QFP±0.025mm Cpk>1.33(3σ)  |
| Mounting component height:            |   |
| Mounting speed                        | 98000CPH (Optimum speed)  |
| Components range                      | 0201~15*15mm packaging material and IC material (optional fixed identification camera for 0201~40*40mm) |
| Power                                 | 1Φ 220AC 50HZ 1.5KW   |
| 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 <sup>2</sup> ) 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                 | 104PCS  |
| No. of Heads                          | Double side:20pcs(single side:10PCS)  |
| Feeding way                           | Electric Feeder   |
| MES System interface                  | Customized  |
| *Optional                             |   |
| Automatic replacement nozzle function | Option  |
| Cutter                                | Option  |
| 23-station feeder cart                | Option  |
| fixed fly vision camera               | Option (equipped with feeder cart)  |
| Mobile IC cabinet                     | Option (equipped with feeder cart)  |

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 YT20S-II SMT line solution



SHENZHEN ETON AUTOMATION EQUIPMENT CO., LTD.  
 Shenzhen Headquarter Add: The 2nd Floor, Building C2, Hengfeng Industrial Area, Zhoushi Road No.739, Hezhou Community, Hangcheng Street, Baoan, Shenzhen  
 0755-29502322  
 www.eton-mounter.com

JIANGXI ETON INTELLIGENT EQUIPMENT MANUFACTURING CO., LTD.  
 Manufacturing Center Add: ETON industrial park, Yanglinhu street No.273, Ruichang city, Jiujiang City, Jiangxi Province

# ETON HONOR SERIES HIGH SPEED UNIVERSAL PICK AND PLACE MACHINE

## YT20S-II



\* Feeder cart

Create Value For Customers, Create Benefits For Society



# SMT Innovation

## YT20S-II

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



- \* Fixed stations
- \* Supports customization

### FEATURES:

(Optimum)

# 98000CPH

#### Outline Dimension

|              |        |
|--------------|--------|
| Length       | 1480mm |
| Width        | 2680mm |
| Height       | 1650mm |
| Total weight | 2200kg |

\* Fixed stations Width : 2070mm

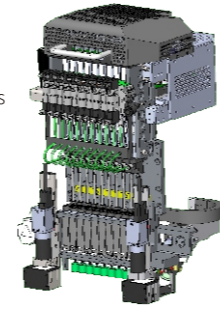
- Double track, double gantry, can mount two different products at same time
- X, Y, and Z axis all adopt self-developed high-end magnetic linear motor
- The world's first use of single-phase 220V power supply, low energy consumption
- Y axis adopts double drive gantry structure
- Support automatic nozzle change 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(option) 15\*15~40\*40mm components need to option fixed camera

## 1 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.

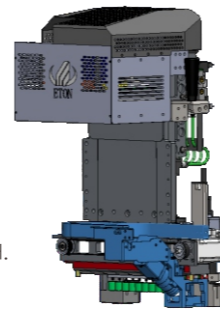


#### Precise Corner System

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



#### 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 200,000CPH.

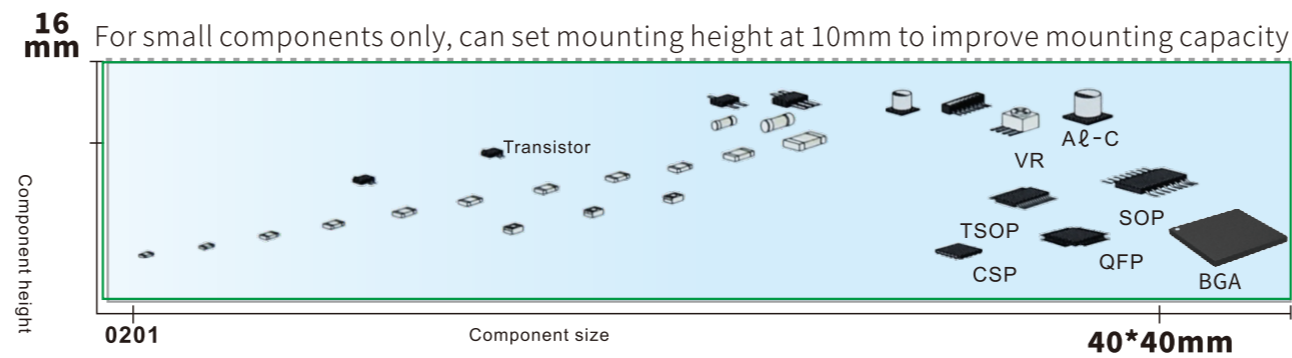
#### Vacuum Sensing Device

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

## 2 Feature

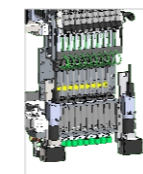
### FLEXIBLE PRODUCTION

#### Component size

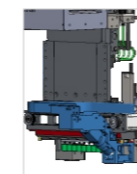


#### Optical Recognition Camera

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.

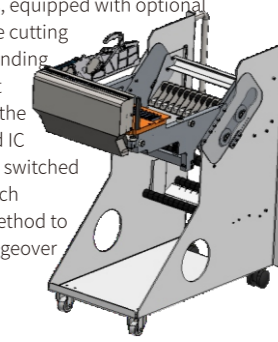


**Optical Recognition Camera:** Head flight recognition, high speed and high-precision identification. the component can do 0201 to 15\*15mm, height 16mm, other height can be customized.

## Optional

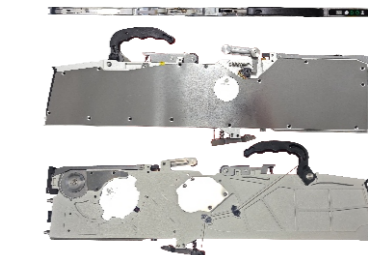
#### Feeder Cart

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.



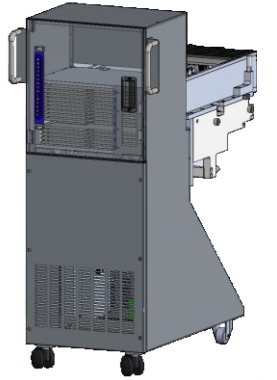
#### Intelligent Electric Feeder

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.

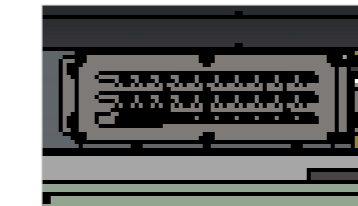


#### IC Cabinet

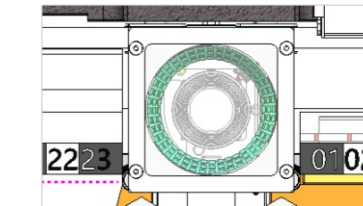
Match with feeder cart, Supports 15-layer trays, with the ability to switch freely.



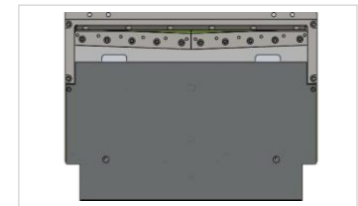
#### Nozzle exchange station



#### Fixed flight vision camera

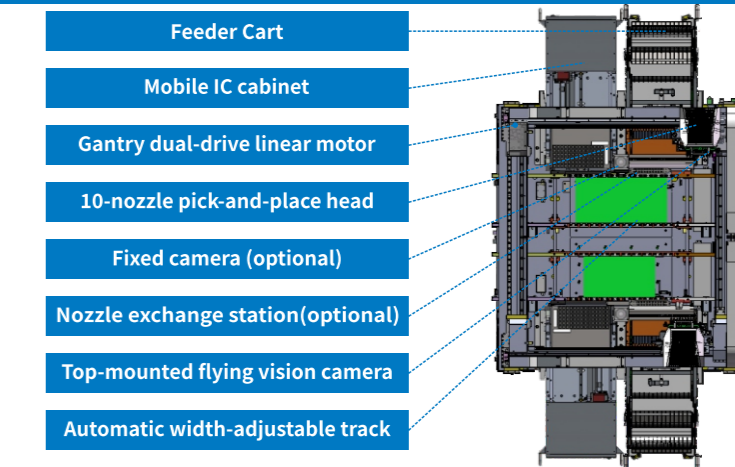


#### Cutter



## 3 Feature

### TRANSMISSION SYSTEM STRUCTURE



- Two gantry, 10 spindles \* 2 Gantry, total 20 spindles.
- Flexible PCB handling capabilities, double rail, both gantry can mount the same large PCB at the same time, realizing flexible

- Flexible line is achievable through modular placement heads and various production modes.

## 4 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.