Auto Programming System

Offers support for various types of memories and diverse packages, including small to large capacities

Enables realization of high quality and low cost production by automating the shop floor, from device programming to labeling and marking.

We accept custom order! Original Programmers

Compact but high performance! Low price model with CCD cameras appeared!

TEH2724/30C

NEW

TEH2724 : Incorporates a AF9724
TEH2730C : Incorporates two AG9730C units

W990xD990xH1400mm (Excluding projections) / approx. 450 Kg

- Compact model in the floor area less than 1 ㎡
- High productivity of 1000 UPH !
- Excellent cost performance

Higher productivity

◆Device Transfer Time Open-top socket 3.6 sec

It is also possible long-term unmanned by 20-tray stacking. When the device is switched, the conversion adapters and socket open/close stays must also be changed. This can easily be performed by the customer without any special tools.

Realization of the Optimum System Configuration

Excluding protruding sections, the TEH2724/30C have a footprint of less than 1 ㎡. Drawer on the back is available for storage, such as maintenance supplies and replacement adapters.

Adjustment-free with 2CCD cameras

The camera attached to the X-Y robot automaticall acquires the socket position information (auto-teaching function), while the position correction camera reads the position status of devices suctioned by the transfer head. This allows the devices to be loaded into the sockets without placing any stress on their leading edges.

Option

Example of Dot Marking

- Stamp Marking
- By changing to the 2 million-pixel CCD camera,it is possible to support for the devices of 30 millimeters square
- Barcode Reader (Including QR Codes)

New standard model that can be customized to match the scope of production and customer needs

TEH2124/25

TEH2124 : Incorporates a AF9724 W1990×D1336×H1600mm (Excluding projections) / approx. 800kg
TEH2125 : Incorporates a AF9725 W1914×D1130×H1600mm (Excluding projections) / approx. 700kg

- Support for open-top and clamshell sockets
- Adjustment-free, due to the incorporation of CCD cameras

Supports both open-top and clamshell sockets

Clamshell socket support

Both kinds of sockets can be used simply by exchanging the opening and closing stays. Support is provided for devices with package sizes from a minimum of 6x6mm (excluding leads) to a maximum of 32x32mm (including leads).

* Depending on device size, exchange of adsorption heads may be required.

Realization of the Optimum System Configuration

Due to our own development system, customization and specification changes can be made to match your manufacturing environment, both before and after the system introduction. Trays can be allocated before and after programming. Long unattended operation is possible, allowing the introduction of 35-tray stocker.

Option

- Stamp Marking
- Lead Inspection Function using the CCD Camera (Specify at the time of shipment)
  * May not be supported depending on device and tray specifications.
- Barcode Reader (Including QR codes)
- Socket Opening and Closing Stay Jig (Stipulated according to the device and adapter)
- Device Pick-up Head (Stipulated according to the device)

Shorter takt time by using twin heads

The two heads used for mounting and ejection

The head movement has been made the shortest possible distance by using separate heads for device mounting and device ejection.

◆Device Transfer Time Open-top socket 4.0 sec / Clamshell socket 6.5 sec

* Including the mounting, ejection, socket opening and closing, and image processing times. The times may differ according to the device and tray specifications.

Ultra high-speed programming from SPI flash to large-capacity NOR/NAND devices

TEH2800H

Incorporates two AG9730 units W1850×D1230×H1600mm (Excluding projections)/ Approximately 680kg

- Concurrent Programming of 32 Sockets
- Adjustment-Free thanks to CCD Cameras

High-Speed Processing

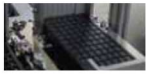
The programmer section is equipped with two high-speed AG9730 gang programmers, enabling separate processing. This has improved the device transport capacity and reduced the transfer time by around 20% from earlier models. The takt time is also significantly shorter thanks to efficiency improvements including better sliding movement for the trays and the adoption of a controller supporting high-capacity image processing.

<B.P.V. processing count>
including the transfer time for the device tray
128 Mbit NOR Flash 900 devices per hour

*Results may vary depending on the device type and operating environment.

◆Device Transfer Time Open-top socket 4.0 sec

Capable of 35-tray Stocking



Long-period automated operation is possible, allowing the introduction of up to 35 trays during supply. NG products are transported to the dedicated NG tray so that there will be no mixing of defective products with good products.
* Only one NG tray can be set.

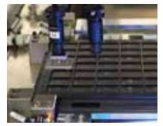
Option

- Stamp Marking and Marking Inspection Function
- Lead Inspection Function using the CCD Camera (Specify at the time of shipment)
- Barcode Reader (Including QR codes)
- Socket Opening and Closing Stay Jig (Stipulated according to the device and adapter)
- Device Pick-up Head (Stipulated according to the device)

* May not be supported depending on device and tray specifi cations.

Option Marking Function

Dot marking function and marking inspection function using a dedicated stamp



Stamp Head

Stamp Block

High productivity realized through space saving; concurrent multi programming of up to 16 devices

TEH2024/24H

Incorporates a AF9724 unit
W1120×D690×H715mm(Excluding projections) Approximately 180kg

- Compact desktop model
- Concurrent multi programming of up to 16 devices
- Transports 2 devices at a time

◆Device Transfer Time (Open-top socket)
TEH2024 : 8.3sec
TEH2024H : 6.0sec

*Including the mounting, ejection, socket opening and closing times.The times may differ according to the device and tray specifications.

Option

- Socket Opening and Closing Stay jig (Stipulated according to the device and adapter)
- Device Pick-up Head (Stipulated according to the device)
- Ionizer (Equivalent to OMRON ZJ-FA01)
- Stamp Marking Function
- Barcode Reader (Including QR codes)

Enables high-speed attaching of 1 label every 5 sec, and also allows inspection after labeling

TEH1600 series

Auto Labeling System
W1200×D1000×H1600mm (Excluding projections) Approximately 450kg

Label Inspection

Attaching Example

- High-speed, high quality label attachment using image recognition processing
- Installs up to 40 trays. (Number of trays varies depending on tray brand.)