

CHIP TERMINATION PRODUCTS

Haiku Tech Termination Machines and Tooling

Plus New Scanning Laser Thickness Gauge

Haiku Tech now offers a complete line of termination machines and tooling for chips or special products. Our newest series of automatic machines have the highest accuracy and productivity capabilities available.

An innovative development allows customers to terminate 0201s in the same equipment without high costs or lengthy set up procedures. As an alternative to the carrier plates we offer low cost jigs with extraordinary manufacturing flexibility and change-over times of 15 minutes between products.

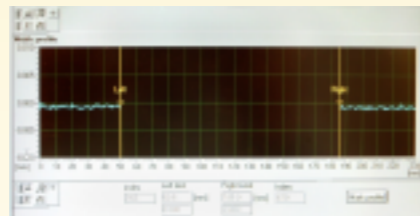
Haiku Tech "Palomar" compatible silicon rubber carrier plates offer superior quality and excellent value for the customer. We have introduced the new quality standard for plates with improved flatness, reduced warpage, stronger and less wear sensitive aluminum, and with better positioning accuracy. A variety of round hole carrier plates are available for safe, effective miniature component handling. We also offer superior wear resistant array dipping wheels for Quicksilver application.



Laser thickness gauge

Haiku Tech has developed a new scanning laser thickness gauge system especially for in-line non-contact measurement of the ceramic tape thickness. With a high degree of accuracy, it gauges the tape thickness while production is running, allowing operators to steer thickness produced and reduce off-spec material and waste. The German Federal Institute for Materials Research BAM of Berlin performed an independent evaluation study of the system.

BAM fully approved the Haiku Tech thickness gauging technology and certified its accuracy.



Americas

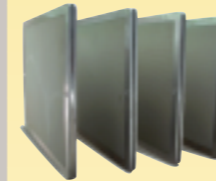
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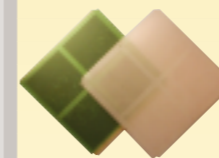


- **Carrier Plates** (fully Palomar compatible silicon rubber)
 - Hold chips for dipping



- **Paste wheels for array dipping**
- **Vibratory Loader** (to load chips into carrier plate)
 - Manual
 - Fully automatic with pin press, loads filled plates into dipper

- **4 Pillar Pin Press**
 - Hi-accuracy press suitable for 0402
 - For chips up to 9300 pattern
 - Optional sensors for misplaced plates or chips



- **Carrier Jigs** (for low cost higher accuracy dipping for 0402/0201)
 - Suitable for 0805/0603/0402/0201
 - 5 x 7 inch and 9 x 9 inch
 - No pins needed for loading, low tooling cost

- **Jig Handling Set**
 - Load/level/harvest chips on jigs
 - Manual or semi-automatic

- **DM-6 Flat Plate Dipper** (for medium-accuracy)
 - Manual operation
 - Medium volume/flexibility
 - Manufactured by Keko Equipment

- **LGTM 2009 Steel Belt Dipper** (for hi-accuracy, high efficiency)
 - Dispenses paste by automatic doctor blade
 - 15 minutes change over between products when using jigs
 - Suitable for jigs and carrier plates

- **LGTM 2009 G2 Fully Automatic Jig Dipper**
 - High volume w/cassette
 - Integrated dryers

- **LGTM 2009 C2 Fully Automatic Carrier Plate Dipper**
 - High volume w/cassette
 - Fully automatic loading, transfer and harvest optional

- **TD-002 Drying Oven** for std. plates
 - Includes cooling belt
 - Customization available

- **TD-003 Drying Oven**
 - For jigs in cassettes
 - Can be integrated into automatic dipping line

