

COMPONENT PROGRAMMING



Providing a comprehensive state of the art programming service for R&D and full production volumes.

Tru-Form has over the past number of years invested in equipment capable of providing a premier component programming service to the electronics manufacturing industries.

Equipment capability includes...

- Fully automated tray to tray and Tube to Tube volume programming.
- Prototype and R&D volumes using latest technology and pin out configurations.
- Automated inspection ensuring outgoing quality.
- Packaging formats available Tray, Tape, Tube, Special.
- Dry and Vacuum packaging available for all formats.



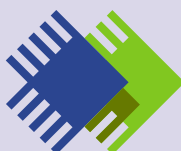
Tray to Tray Movement of Components



Automated Component Inspection



Dry Packing



tru-form

attrition management
& component enhancement

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Tape and Reeling



SERVICE LIST INCLUDES...

- Component programming
- Tape and Reeling
- Dry Packing
- Baking
- De reeling
- Labelling
- Lead Inspection and re-alignment.
- BGA Inspection and Re-balling

Technical detail

The company policy is to automate processes wherever possible, this strategy enables a high level of consistency and repeatability on all processes.

Environment

Quality System operating within ISO 9001:2000.

Full ESD environment CEI IEC 61340-5-1
Humidity and Temperature monitoring.

Component Programming

All major package styles and pin outs covered for:

- BGA , Micro BGA, QFP, SOIC, PLCC, and TSOP.
- Fully automated Data I/O PS300 programming system.
- Bench mounted Data I/O and BP programming based manual systems.

Tape and Reeling

Product taped to EIA 418 standard.

Peel strength test completed on all batches.

Capability to reel all package styles in volume and as component attrition.
Special custom design service available.

Dry Packing

ESD Bag.

Humidity indicator card 4 Spot.

Desiccant included in all MSL dry packing.
Customised labelling available.

Baking Considerations

Components are baked at 125 deg C for 24 hours.

Alternative is to bake at 40°C with less than 5% relative humidity for 192 hours.

Labelling

Both polyester and Kapton labelling is an option.

Quality

ISO Certified,

Full ESD Protected Environment.

Fully Traceable documentation.

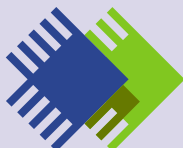
Integrated production control system.



Component Baking



Vacuum Seal



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