



BGS: Board Gauging System

“Fully automatic inline two dimensional Board Gauging System, designed for fast high resolution scanning of PCB assemblies.

Features:

- Scanning speeds of 100mm/second
- 8000 pixel line scan camera with top lighting
- Scanning resolution of 25 micron
- Fiducial recognition

Often a board can be routed to the correct dimension, but with an Off-set. The Edge Scan System can be programmed to measure the overall length of the Board with reference to a fiducial or other references. The BGS software can then be used to sort out reject / accept panels

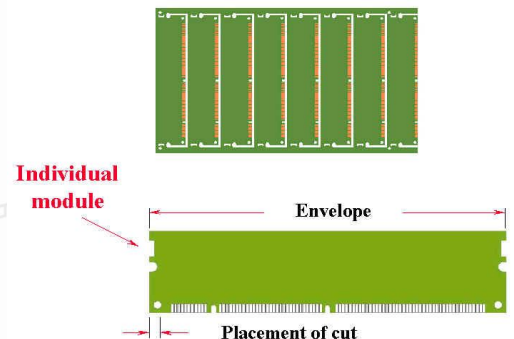
Examples of use:

- Statistical tracking of tool wear characteristic
- Measures specified board dimensions
- Check on placement of cut with respect to a specified edge or fiducial
- Stops process on reject due to tool break or module miss location
- Data is manually fed back into the router machine during set up
- Able to read bar coding

Unlike AOL inspection systems, the BGS is able to scan the complete PCB assembly at speeds of 100mm/second and produce a high quality image that can be used for dimensional measurement and as such will not effect the cycle time of the routing machine.



Machine general specifications	
PCB size (mm)	330 (L) x 250 (D)
Number of axis.	Single axis
Scanning speed	100mm per sec.
Scanning resolution	0.025mm
Interfacing	SMEMA electrical interface
Conveyor System:	Manually adjustable with variable belt speed.
Machine External Dim.	0.75m (L) x 0.8m (D) x 1.7m (H)
Options	Pre/Post scan panel flip station.



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