

Vision Alignment Option for MT9510 Pick & Place Handler



requirements >

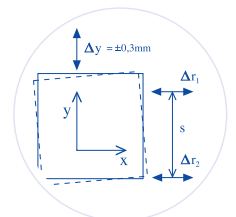
- > smaller package sizes and higher integration leading to 0.3 mm lead pitch
- > need to improve first pass test yield and Cost of Test

our solution >

- > analyses each device separately
- > aligns all simultaneously contacted devices individually
- > fixes device between vision capture and contacting
- > possible to switch between Vision Alignment and standard applications easily (fully compatible to existing standard MT9510 kits)

available for >

- > MT9510 and MT9510 XP
- > full package temperature range (-55° -to 155°C)
- > installed handlers can be upgraded in the field



concept (patent)
adjustment in 3 axis

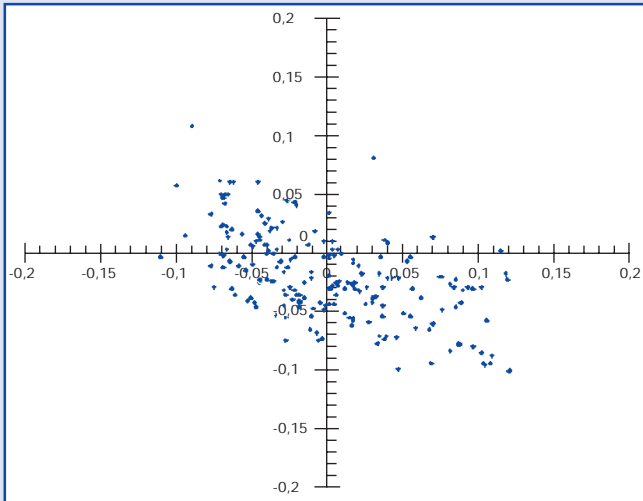


taken by VA camera

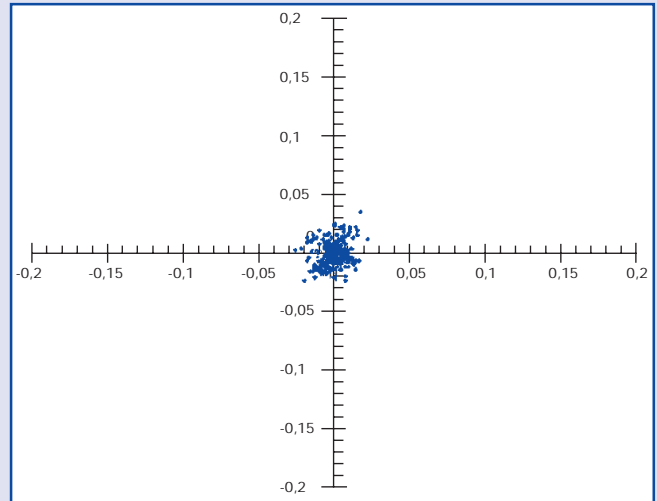
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measured results >
(positioning accuracy device-to-socket in mm)



standard method



with vision alignment

the inside view >

- > two cameras, to capture a picture of device position on leadbacker
- > four individual alignment frames are moved to required position before device is plunged into contact socket (alignment done in x,y,teta)



benefits >

- > productivity increase
- > improved utilization



Four individual alignment frames



Leadbacker with clamping



Rear view with Vision Alignment

All performance specification such as MTBF, MTBA, Uptime, Yield and Jam Rate assume that only original Multitest spare and consumable parts are used, recommended maintenance intervals are respected, operators/maintenance technicians have successfully participated in a formal equipment training by Multitest, and only Multitest approved software is used on the systems. Multitest assumes no warranty or liability if any of these requirements is not met.

MULTITEST GERMANY
Rosenheim, Tel.: +49-(0)8031-406-0
Mail Sales: sales europe@multitest.com

MULTITEST SINGAPORE
Tel.: +65-6741-5977
Mail Sales: salesasia@multitest.com

MULTITEST USA
San Jose, Tel.: +1-408-954-0290
Mail Sales: salesusa@multitest.com

MULTITEST
ELEKTRONISCHE SYSTEME GMBH A DOVER COMPANY