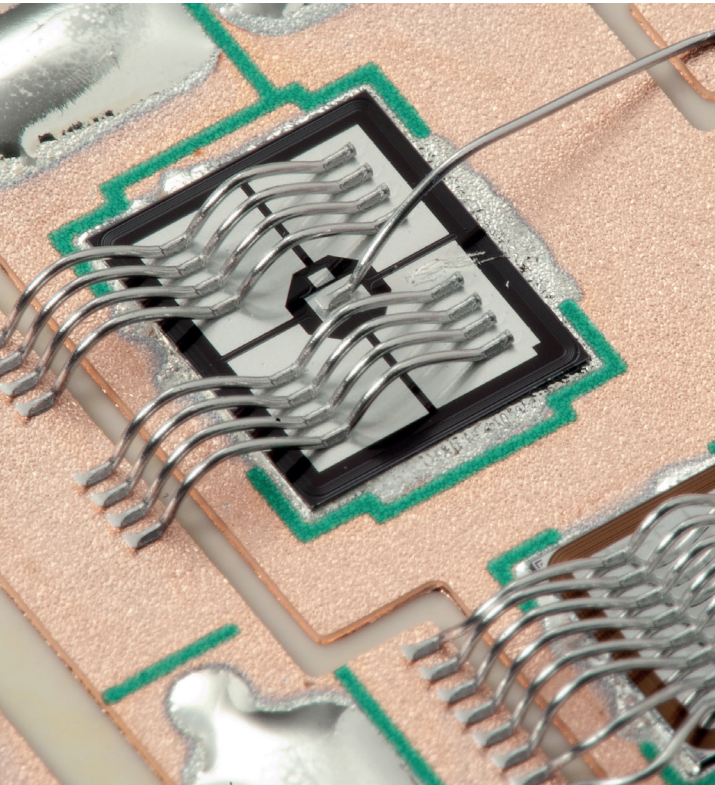


## 3D Wire Bond Inspection



**Reliable 3D bond inspection  
down to 20  $\mu\text{m}$  wire diameter**

**Unique inspection scope with  
best mix of 2D and 3D methods**

**Quickest inspection times  
at the highest inspection depth**

**Inspection of concealed wedges**

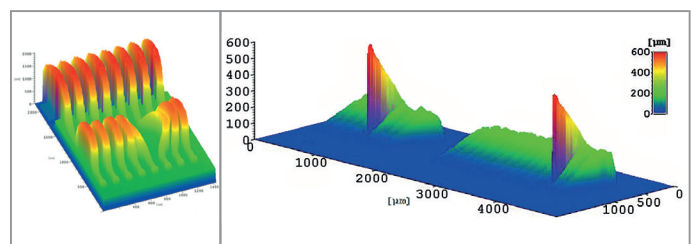
### 3D Measurement for Even Greater Inspection Reliability

As the market leader in wire bond inspection, Viscom offers accurate measurement of heights for both thick and thin wires. The automated processes feature a smart combination of 3D bond inspection with very high resolution telecentric optics. This makes it possible to reliably inspect even the most complex bond layouts in production lines and to subject bonding wires with a diameter down to 20  $\mu\text{m}$  to very precise quality control.

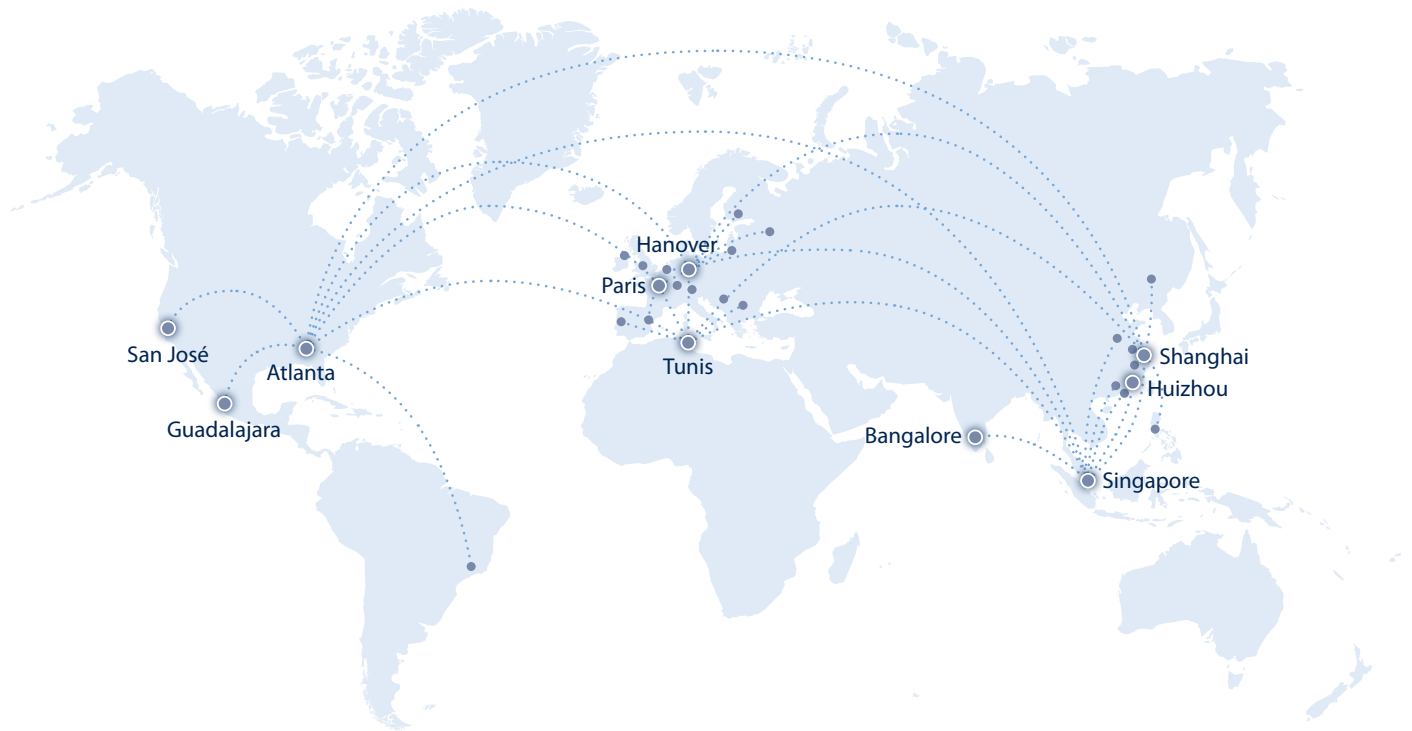
#### Exceptional inspection scope

Depending on the application, loop heights of bonding wires can be specified in the printed circuit board design – with Viscom providing the appropriate 3D inspection technology. It is also possible, using the height information obtained, to determine the distance between wires crossing one another in order to ensure an assembly operation that is free from risk and errors. Even wedges concealed under bonding wires can be reliably inspected using the Viscom 3D bond inspection. Other applications include determining the distance between wires and chips as well as the detection of so-called lifters, the balls or wedges of which have no connection to the contact surface and therefore have no electrical function. The 3D information can also be used to check specified wire lengths with great precision by determining the exact course of the wire.

To summarize, 3D wire bond inspection from Viscom offers an ideal extension to inspection depth for even more reliable quality control of complex assemblies.



Bent wires (left) and thin-wire lift off (right) in 3D view



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