



**Reliable 3D bond inspection
down to 20 µm 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

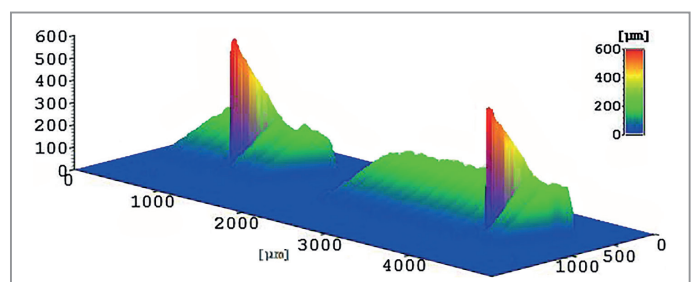
3D Wire Bond Inspection for Even Greater Inspection Reliability

As the market leader in wire bond inspection, Viscom now offers 3D inspection of thin wires for the first time. This new process features a smart combination of 3D bond inspection and very high resolution telecentric optics, which enables even the most complex bond layouts to be reliably inspected. Bond wires with a diameter down to 20 µm can be inspected.

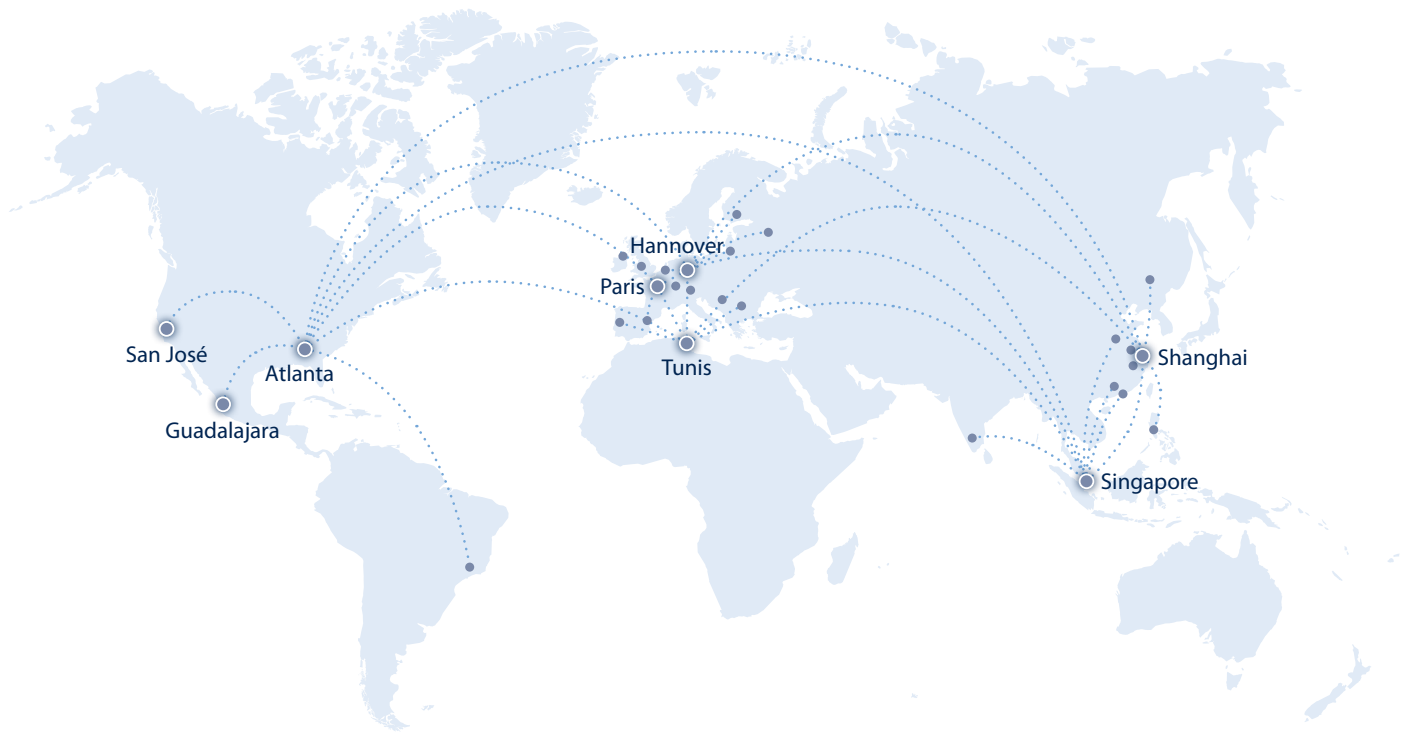
Exceptional inspection scope in 3D

Depending on the application, Viscom can accurately inspect specified loop heights for bonding wires in printed circuit board design using its new 3D technology. With the acquired height information it is also possible to reliably detect the distance between wires crossing one another in order to ensure risk-free and error-free assembly operation. Even heights of 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 reliably detecting 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 by determining the exact course of the wire.

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



Thin-wire lifter in 3D view



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