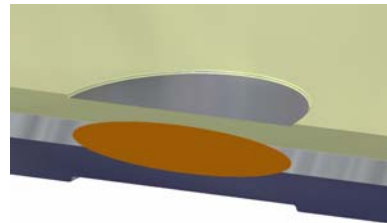
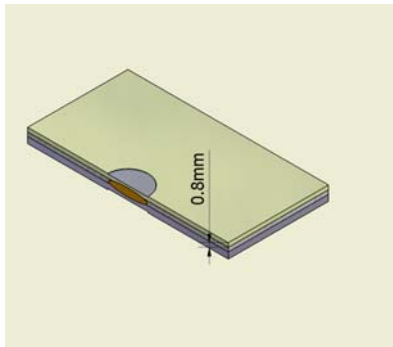


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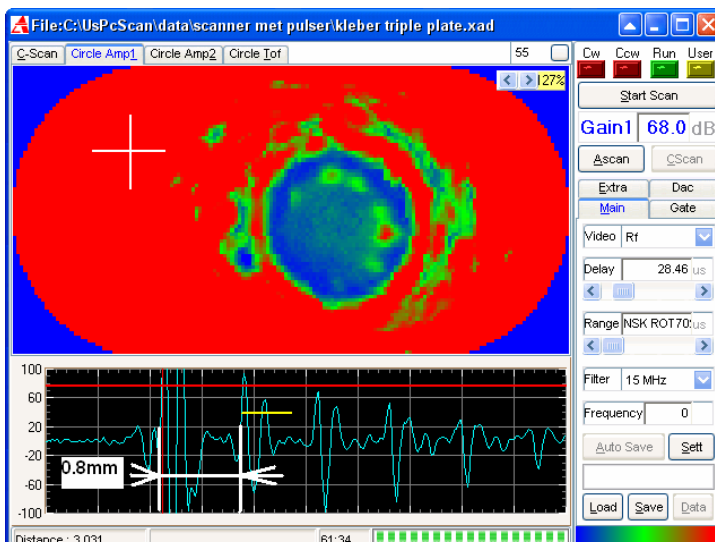
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Mini Scanner with integrated pulser/receiver for spot weld inspection of thin plates.



Test sample:
triple plate spot weld
thickness top plate=0.8mm.

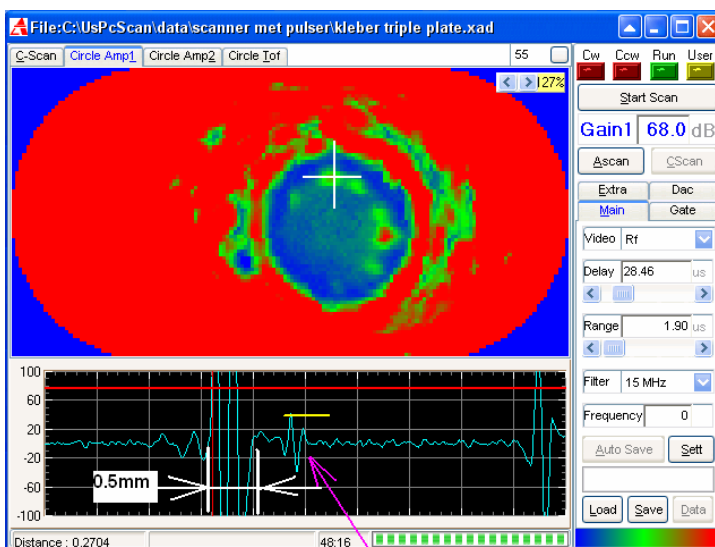
Mini Scanner:
35Mhz transducer
scan time: 5 sec



The A-scan that is displayed here correspond with the white cross marked point in the C-scan.

This is beneath the spot weld to show the wall thickness of the top plate (0.8mm).

The back wall echo is significant separated from the interface echo. In this situation flow detection is possible from a depth of about 0.5mm in the material.



The A-scan at a place in the spot weld is shown.

In this place an indication is seen in the weld.

These small echo's in this depth of the spot weld are probable indications for a local cold weld ("Kleber") between the top and the middle plate.

In the most right of the A-scan the full back wall echo at about 3mm represents a strong ultrasonic signal.

Indication of a "Kleber" in the white cross point.