Not possible in reality, but easy with

TRAINDE UT

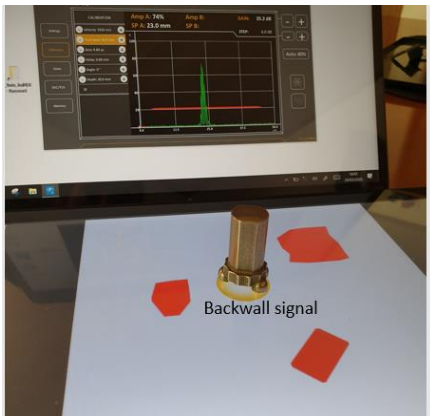
The first virtual simulator for NDE inspectors

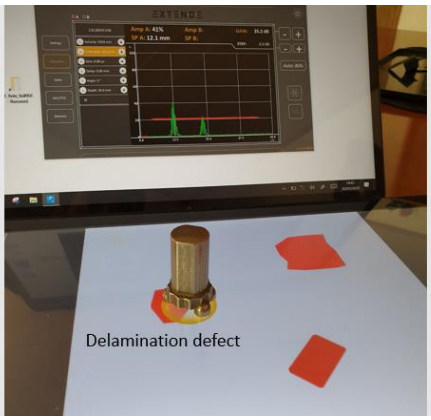
Efficiently training UT inspectors to perform manual UT inspections can be difficult… But smart tools can help! ***TraiNDE UT*** *is a virtual mock-up with a database of experimental and simulated signals that reproduce real inspection conditions for numerous applications. Discover the benefits of TraiNDE UT in your NDE program.*

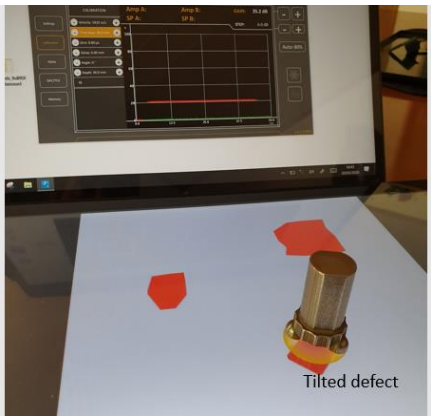
Find the perfect block to illustrate the tricks and traps of shadowing effect

The training challenge

The "shadowing effect" might be a weird name, but it is a real phenomenon. It is quite intuitive and easy to explain, and it is extensively used in the interpretation of results – detection, sizing and characterization. It can either be a trick that helps to confirm the diagnosis, or a trap when it is the only information available to perform the diagnosis. The images below illustrate both the trick and trap situations. On the left, the probe is on a flaw-free section that only shows the backwall echo. In the middle, the probe is on a delamination that shows the rising flaw echo and the decreasing backwall echo: the shadowing effect on the backwall confirms the presence of a flaw. On the right, the probe is on a tilted delamination that produces no echo and shadows the backwall echo: the shadowing effect is the only way for the inspector to detect and size the flaw.







The benefits of using TraiNDE UT

TraiNDE UT includes several steel sheet inspection cases using a normal beam such as the one above. During your training sessions, simply get your TraiNDE UT, start this example, display the flaws, and navigate your probe between the 3 illustrated locations: your trainees will understand and remember it!

A visual and smart tool is better than long explanations, practice with traiNDE UT and you will get it!

Find all our application cases on: http://trainde.extende.com