

Schematic view of loop height testing

## How to test bonds » Wire Pull » loop height, work holder and clamping

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### 8. Loop height measurement

On the [previous page](#), [triangulation](#) was discussed. In order to make the desired [force calculations](#), a loop height measurement is required. Bond testers are traditionally used for force measurement only, but one can also use the positional accuracy to measure distances with the same wire pull sensors. Advanced bond testers can even combine the measurement of loop heights with wire pull tests. [Click here for more information on loop height measurements](#).

### 9. Work holder and clamping

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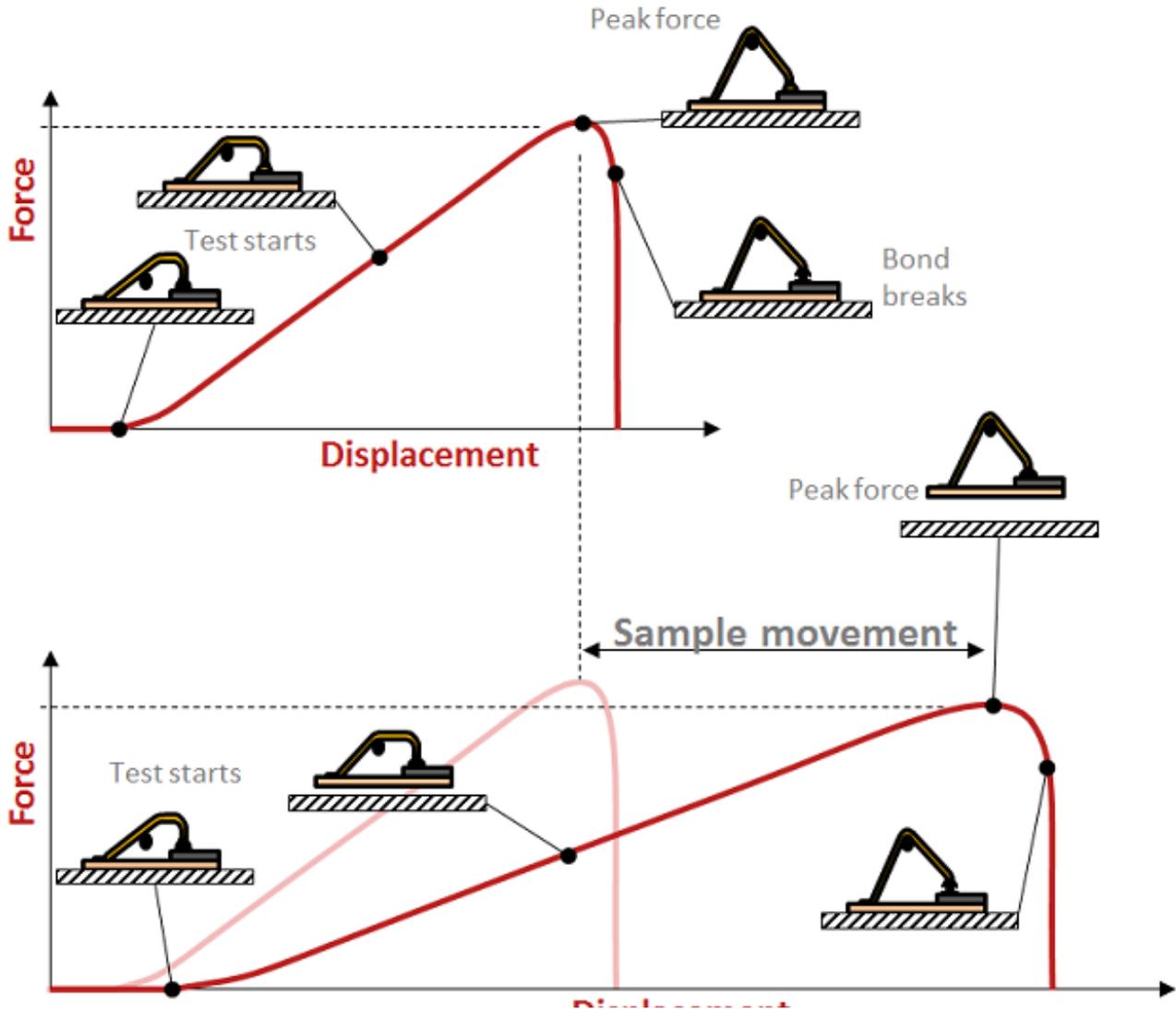
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- Condor *150HF*

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If the sample is not firmly and rigidly clamped, test time increases, displacement data is wrong and test data becomes less tight and reliable

In the illustration, two tests are simulated. The one on top shows the best measurement, when the sample is clamped to the base. In the one on the bottom, the sample is not clamped. Hence,

- Sample movement results in longer test time and displacement
- If the test time is longer the true test speed is slower
- Different test speeds give different peak forces
- Variable clamping increases error and distribution

## Continue to read:

Previous page: [Alignment](#)

Next page: [Variants on wire pull](#)

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